



Radio Test Report

Report No.: STS2601009W11

Issued for

TRULY ELECTRONICS MFG., LTD

Truly industry city, shanwei Guangdong, P.R.C

Product Name: WIFI/BT Module+5G/6G

Brand Name: N/A

Model Name: TR7R922P2-M

Series Model(s): TR7R922P3-M

FCC ID: 2BOHY-922P2-M

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: TRULY ELECTRONICS MFG., LTD
Address: Truly industry city, shanwei Guangdong, P.R.C
Manufacturer's Name: TRULY ELECTRONICS MFG., LTD
Address: Truly industry city, shanwei Guangdong, P.R.C

Product Description

Product Name: WIFI/BT Module+5G/6G
Brand Name: N/A
Model Name: TR7R922P2-M
Series Model(s): TR7R922P3-M

Test Standards: FCC Part15.407

Test Procedure: ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of receipt of test item: 05 Jan. 2026

Date (s) of performance of tests: 05 Jan. 2026 ~ 12 Feb. 2026

Date of Issue: 12 Feb. 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	12 Feb. 2026	STS2601009W11	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

Note:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2020.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where 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	WIFI/BT Module+5G/6G	
Brand Name	N/A	
Model Name	TR7R922P2-M	
Series Model(s)	TR7R922P3-M	
Model Difference	Only different in model name	
Product Description	The EUT is WIFI/BT Module+5G/6G	
	Operation Frequency:	IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80) /ax(HE80)/be(EHT80): 5.210GHz
		IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20): 5.260GHz-5.320GHz IEEE 802.11 n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40): 5.270GHz-5.310GHz IEEE 802.11ac(VHT80)/ax(HE80)/be(EHT80): 5.290GHz IEEE 802.11ac(VHT160) /ax(HE160)/be(EHT160): 5.250GHz
		IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20): 5.500GHz-5.700GHz IEEE 802.11 n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40): 5.510GHz-5.670GHz IEEE 802.11ac(VHT80)/ax(HE80)/be(EHT80): 5.530GHz-5.610GHz IEEE 802.11ac(VHT160)/ax(HE160)/be(EHT160): 5.570GHz
	Modulation Type:	IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20): 5.745GHz-5.825GHz IEEE 802.11a/ n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80)/ax(HE80)/be(EHT80): 5.775GHz
		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 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM 802.11be(OFDM, OFDMA):



		BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM,4096QAM
		802.11a Support SISO 802.11n/ac/ax/be Support MIMO
	Antenna Type:	Dipole
	Antenna Gain:	ANT 1: 2.5dBi, ANT 2: 2.5dBi MIMO:5.51dBi
More details of EUT technical specification, please refer to the User Manual.		
Test Channel	Please refer to the Note 3.	
Power Rating	Input: DC3.3V	
Adapter	N/A	
Battery	N/A	
Hardware version number	N/A	
Software version number	N/A	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna 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		5.500GHz-5.720GHz	
Channel	Frequency	Channel	Frequency
36	5180	100	5500
38	5190	102	5510
40	5200	104	5520
42	5210	106	5530
44	5220	108	5540
46	5230	110	5550
48	5240	112	5560
		114	5570
		116	5580
5.260GHz-5.320GHz		118	5590
Channel	Frequency	120	5600
50	5250	122	5610
52	5260	124	5620
54	5270	126	5630
56	5280	128	5640
58	5290	132	5660
60	5300	134	5670
62	5310	136	5680
64	5320	140	5700
5.745GHz-5.825GHz			
Channel	Frequency		
149	5745		
151	5755		
153	5765		
155	5775		
157	5785		
159	5795		
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)/ax(HE20)/be(EHT20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
36	5180	52	5260
40	5200	60	5300
48	5240	64	5320
For 802.11a/n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
100	5500	149	5745
116	5580	157	5785
140	5700	165	5825
For 802.11 n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
38	5190	54	5270
46	5230	62	5310
For 802.11 n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
102	5510	151	5755
110	5550	159	5795
134	5670		
For 802.11ac (VHT80)/ax(HE80)/be(EHT80)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
42	5210	58	5290
For 802.11ac (VHT80)/ax(HE80)/be(EHT80)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
106	5530	155	5775
122	5610		
For 802.11ac (VHT160)/ax(HE160)/be(EHT160)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
50	5250	114	5570

4. KDB 662911 D01 Multiple Transmitter Output v02r01

2) Directional Gain Calculations for In-Band Measurements

d) Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

☒ (i) If transmit signals are correlated, then

Directional gain = $10 \log[(10G_1/20 + 10G_2/20 + \dots + 10G_N/20)^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

☐ (ii) If all transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10G_1/10 + 10G_2/10 + \dots + 10G_N/10)/NANT]$ dBi

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 CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11a HT20 CH100&CH116&CH140	6 Mbps
Mode 4	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 5	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 6	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 7	TX IEEE 802.11n HT20 CH52&CH60&CH64	MCS 0
Mode 8	TX IEEE 802.11ac VHT20 CH52&CH60&CH64	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT20 CH100&CH116&CH140	MCS 0
Mode 10	TX IEEE 802.11ac VHT20 CH100&CH116&CH140	NSS1 MCS0
Mode 11	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 12	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 13	TX IEEE 802.11ax HE20 CH36&CH40&CH48	NSS1 MCS0
Mode 14	TX IEEE 802.11ax HE20 CH52&CH60&CH64	NSS1 MCS0
Mode 15	TX IEEE 802.11ax HE20 CH100&CH116&CH140	NSS1 MCS0
Mode 16	TX IEEE 802.11ax HE20 CH149&CH157&CH165	NSS1 MCS0
Mode 17	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 18	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 19	TX IEEE 802.11n HT40 CH54 &CH62	MCS 0
Mode 20	TX IEEE 802.11ac VHT40 CH54 &CH62	NSS1 MCS0
Mode 21	TX IEEE 802.11n HT40 CH102&CH110&CH134	MCS 0
Mode 22	TX IEEE 802.11ac VHT40 CH102&CH110&CH134	NSS1 MCS0



Mode 23	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 24	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 25	TX IEEE 802.11ax HE40 CH38&CH46	NSS1 MCS0
Mode 26	TX IEEE 802.11ax HE40 CH54 &CH62	NSS1 MCS0
Mode 27	TX IEEE 802.11ax HE40 CH102&CH110&CH134	NSS1 MCS0
Mode 28	TX IEEE 802.11ax HE40 CH151&CH159	NSS1 MCS0
Mode 29	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 30	TX IEEE 802.11ac VHT80 CH58	NSS1 MCS0
Mode 31	TX IEEE 802.11ac VHT80 CH106&122	NSS1 MCS0
Mode 32	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0
Mode 33	TX IEEE 802.11ax HE80 CH42	NSS1 MCS0
Mode 34	TX IEEE 802.11ax HE80 CH58	NSS1 MCS0
Mode 35	TX IEEE 802.11ax HE80 CH106&122	NSS1 MCS0
Mode 36	TX IEEE 802.11ax HE80 CH155	NSS1 MCS0
Mode 37	TX IEEE 802.11be EHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 38	TX IEEE 802.11be EHT20 CH52&CH60&CH64	NSS1 MCS0
Mode 39	TX IEEE 802.11be EHT20CH100&CH116&CH140	NSS1 MCS0
Mode 40	TX IEEE 802.11be EHT20CH149&CH157&CH165	NSS1 MCS0
Mode 41	TX IEEE 802.11be EHT40 CH38&CH46	NSS1 MCS0
Mode 42	TX IEEE 802.11be EHT40 CH54 &CH62	NSS1 MCS0
Mode 43	TX IEEE 802.11be EHT40CH102&CH110&CH134	NSS1 MCS0
Mode 44	TX IEEE 802.11be EHT40 CH151&CH159	NSS1 MCS0
Mode 45	TX IEEE 802.11be EHT80 CH42	NSS1 MCS0
Mode 46	TX IEEE 802.11be EHT80 CH58	NSS1 MCS0
Mode 47	TX IEEE 802.11be EHT80 CH106&122	NSS1 MCS0
Mode 48	TX IEEE 802.11be EHT80 CH155	NSS1 MCS0
Mode 49	TX IEEE 802.11ax HE160 CH50	NSS1 MCS0
Mode 50	TX IEEE 802.11ax HE160 CH114	NSS1 MCS0
Mode 51	TX IEEE 802.11be EHT160 CH50	NSS1 MCS0
Mode 52	TX IEEE 802.11be EHT160 CH114	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 be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz

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

(4) The 802.11ax and be mode is only support full RU.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 53: Keeping TX + WLAN Link

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)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	ANT1:2.5 ANT2:2.5 MIMO:5.51	14	14	Bluetooth RF Test Tool V.5.2.4.29
		802.11n(HT20)		14	14	
		802.11n(HT40)		14	14	
		802.11ac(VHT20)		14	14	
		802.11ac(VHT40)		14	14	
		802.11ac(VHT80)		14	14	
		802.11ax(HE20)		14	14	
		802.11ax(HE40)		14	14	
		802.11ax(HE80)		14	14	
		802.11be(EHT20)		14	14	
		802.11be(EHT40)		14	14	
		802.11be(EHT80)		14	14	

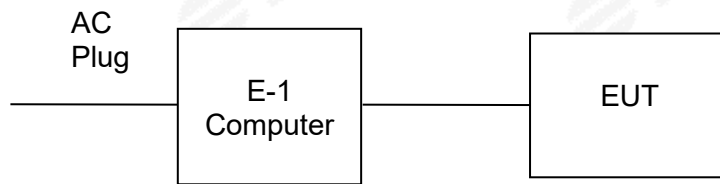
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-2A (5250MHz - 5350MHz)	802.11a	ANT1:2.5 ANT2:2.5 MIMO:5.51	14	14	Bluetooth RF Test Tool V.5.2.4.29
		802.11n(HT20)		14	14	
		802.11n(HT40)		14	14	
		802.11ac(VHT20)		14	14	
		802.11ac(VHT40)		14	14	
		802.11ac(VHT80)		14	14	
		802.11ac(VHT160)		14	14	
		802.11ax(HE20)		14	14	
		802.11ax(HE40)		14	14	
		802.11ax(HE80)		14	14	
		802.11ax(HE160)		14	14	
		802.11be(EHT20)		14	14	
		802.11be(EHT40)		14	14	
		802.11be(EHT80)		14	14	
		802.11be(EHT160)		14	14	

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-2C (5470MHz - 5725MHz)	802.11a	ANT1:2.5 ANT2:2.5 MIMO:5.51	14	14	Bluetooth RF Test Tool V.5.2.4.29
		802.11n(HT20)		14	14	
		802.11n(HT40)		14	14	
		802.11ac(VHT20)		14	14	
		802.11ac(VHT40)		14	14	
		802.11ac(VHT80)		14	14	
		802.11ac(VHT160)		14	14	
		802.11ax(HE20)		14	14	
		802.11ax(HE40)		14	14	
		802.11ax(HE80)		14	14	
		802.11ax(HE160)		14	14	
		802.11be(EHT20)		14	14	
		802.11be(EHT40)		14	14	
		802.11be(EHT80)		14	14	
		802.11be(EHT160)		14	14	

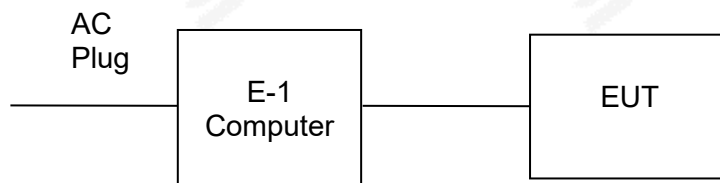
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-3 (5725MHz-5850MHz)	802.11a	ANT1:2.5 ANT2:2.5 MIMO:5.51	14	14	Bluetooth RF Test Tool V.5.2.4.29
		802.11n(HT20)		14	14	
		802.11n(HT40)		14	14	
		802.11ac(VHT20)		14	14	
		802.11ac(VHT40)		14	14	
		802.11ac(VHT80)		14	14	
		802.11ax(HE20)		14	14	
		802.11ax(HE40)		14	14	
		802.11ax(HE80)		14	14	
		802.11be(EHT20)		14	14	
		802.11be(EHT40)		14	14	
		802.11be(EHT80)		14	14	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

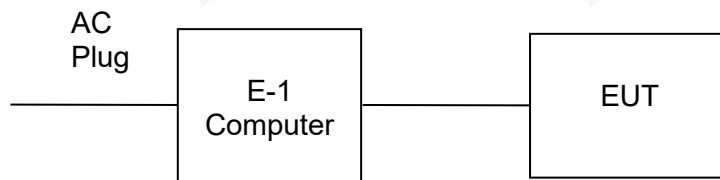
Radiated Spurious Emission Test



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	Computer	ASUS	S7RIX8250H	N/A

Item	Equipment	Mfr/Brand	Length	Note
N/A	N/A	N/A	N/A	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	2025.02.24	2026.02.23
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
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
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	2025.02.24	2026.02.23
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	2025.02.22	2026.02.21
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
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2025.02.22	2026.02.21
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
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

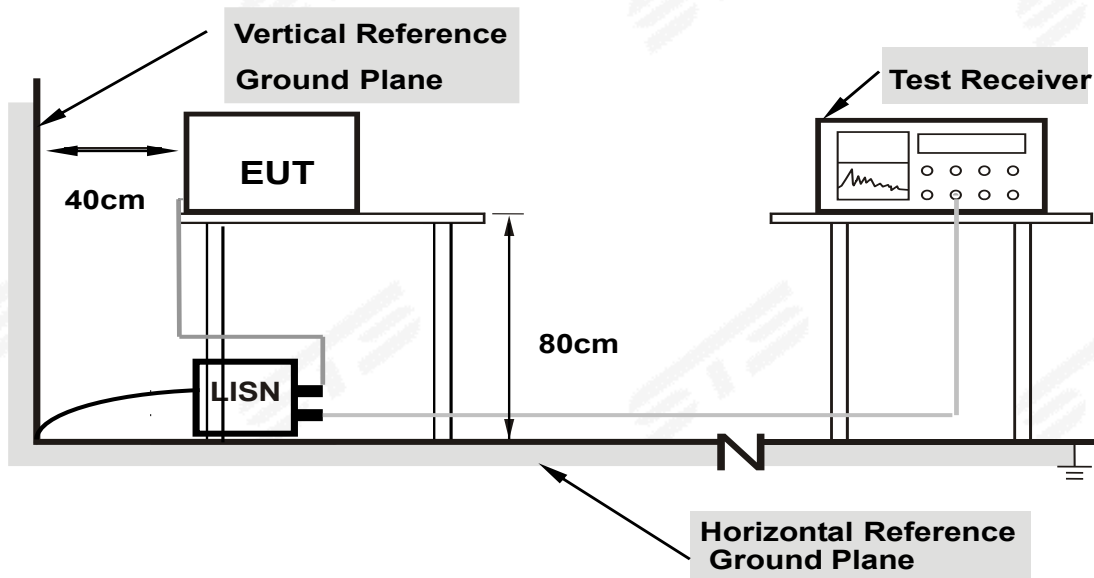
3.1.2 TEST PROCEDURE

- 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

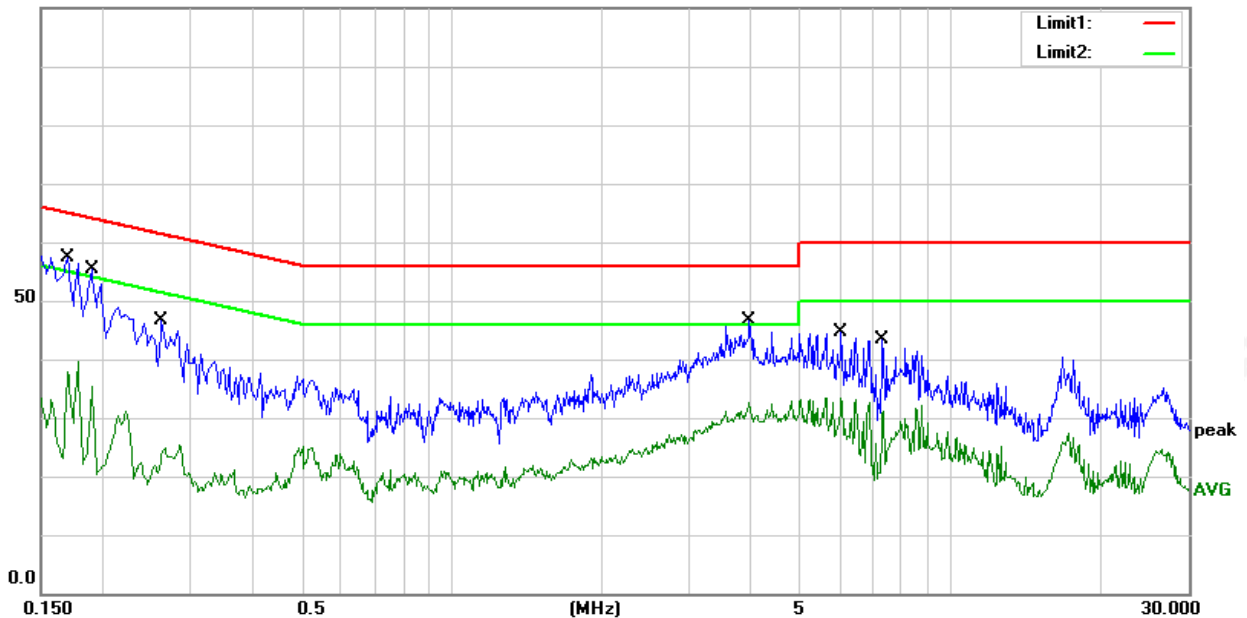
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 53		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1700	37.93	19.38	57.31	64.96	-7.65	QP
2	0.1700	20.17	19.38	39.55	54.96	-15.41	AVG
3	0.1900	36.01	19.39	55.40	64.04	-8.64	QP
4	0.1900	16.05	19.39	35.44	54.04	-18.60	AVG
5	0.2620	27.35	19.37	46.72	61.37	-14.65	QP
6	0.2620	11.74	19.37	31.11	51.37	-20.26	AVG
7	3.9620	27.26	19.41	46.67	56.00	-9.33	QP
8	3.9620	13.23	19.41	32.64	46.00	-13.36	AVG
9	6.0380	25.24	19.43	44.67	60.00	-15.33	QP
10	6.0380	14.05	19.43	33.48	50.00	-16.52	AVG
11	7.3100	23.98	19.48	43.46	60.00	-16.54	QP
12	7.3100	13.22	19.48	32.70	50.00	-17.30	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

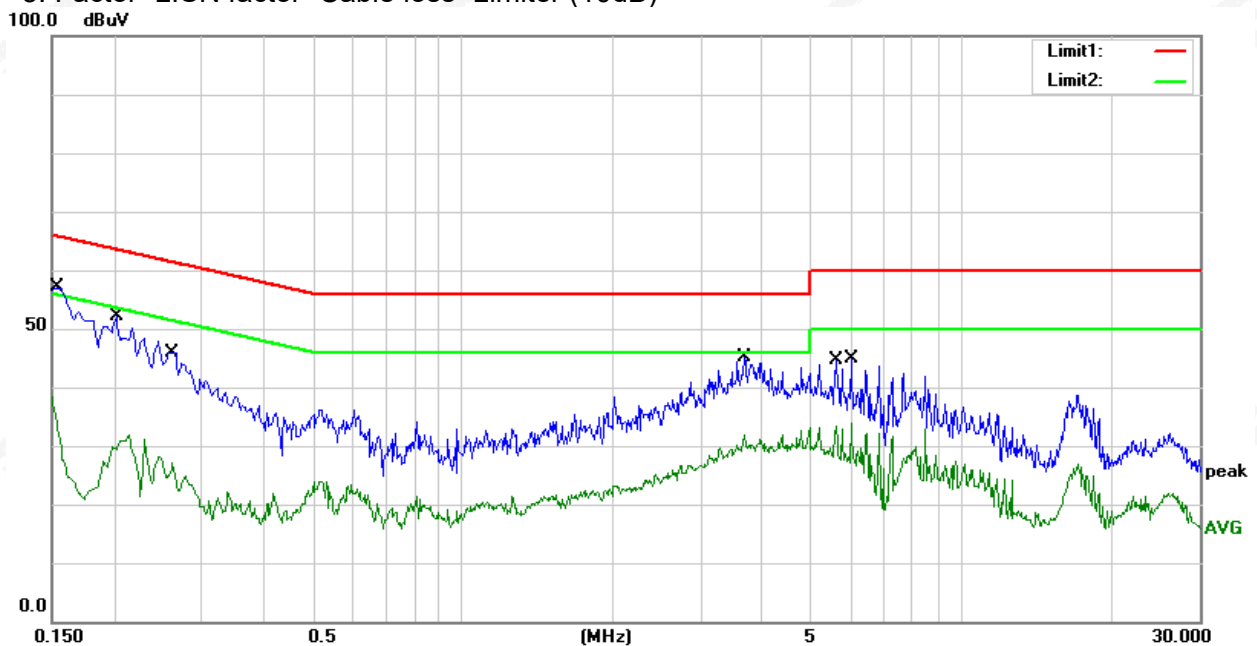


Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode :	Mode 53		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1540	37.66	19.41	57.07	65.78	-8.71	QP
2	0.1540	18.86	19.41	38.27	55.78	-17.51	AVG
3	0.2020	32.73	19.37	52.10	63.53	-11.43	QP
4	0.2020	12.43	19.37	31.80	53.53	-21.73	AVG
5	0.2644	26.50	19.37	45.87	61.29	-15.42	QP
6	0.2644	11.83	19.37	31.20	51.29	-20.09	AVG
7	3.6620	25.59	19.46	45.05	56.00	-10.95	QP
8	3.6620	12.41	19.46	31.87	46.00	-14.13	AVG
9	5.6100	25.08	19.45	44.53	60.00	-15.47	QP
10	5.6100	13.80	19.45	33.25	50.00	-16.75	AVG
11	6.0140	25.41	19.45	44.86	60.00	-15.14	QP
12	6.0140	12.77	19.45	32.22	50.00	-17.78	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)



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

For Band edge



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

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

3.2.2 TEST PROCEDURE

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

Note:

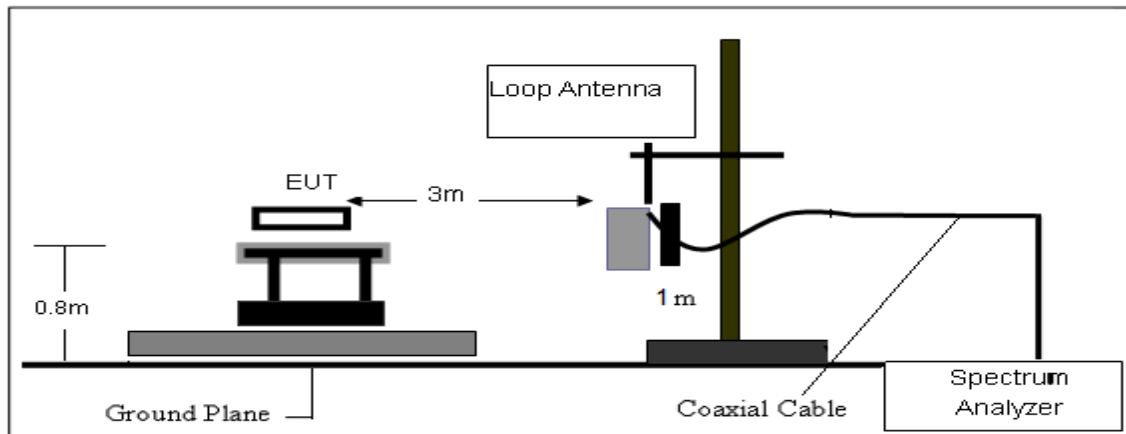
Both horizontal and vertical antenna polarities were tested with a band-stop filter and performed pretest to three orthogonal axis. The worst-case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

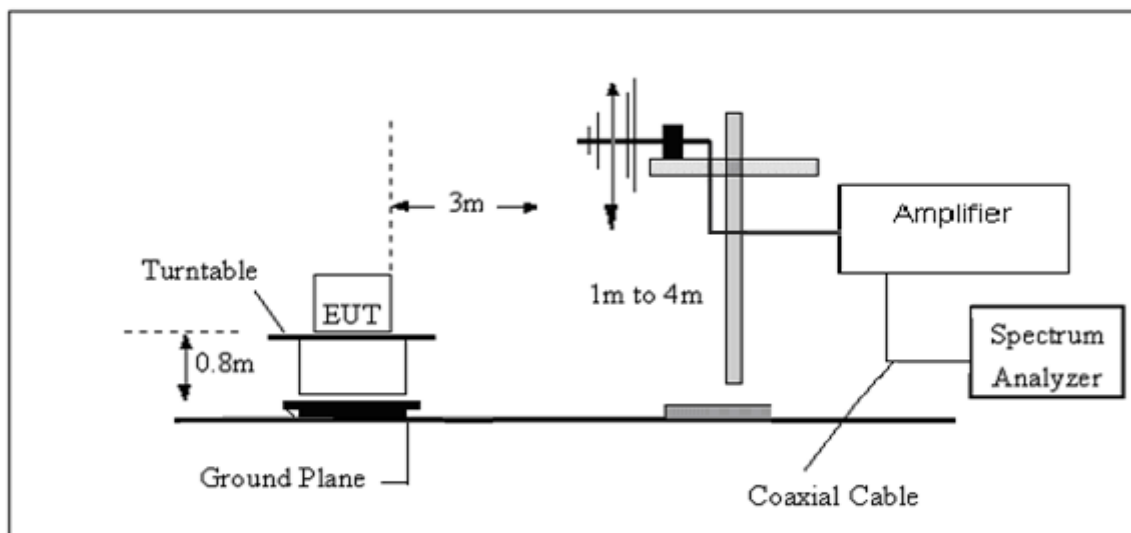
No deviation

3.2.4 TEST SETUP

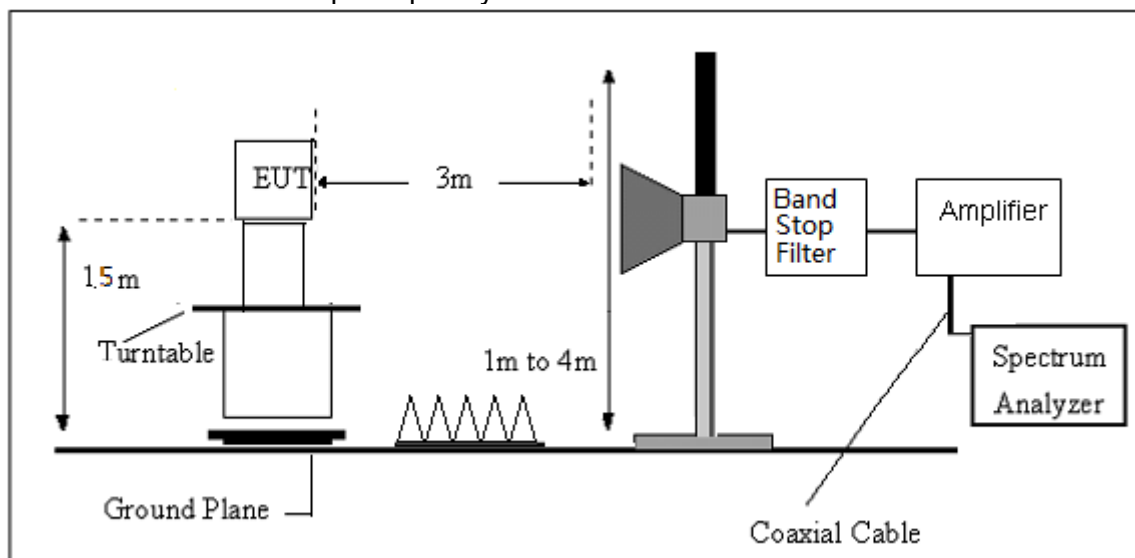
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 3.3V	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.

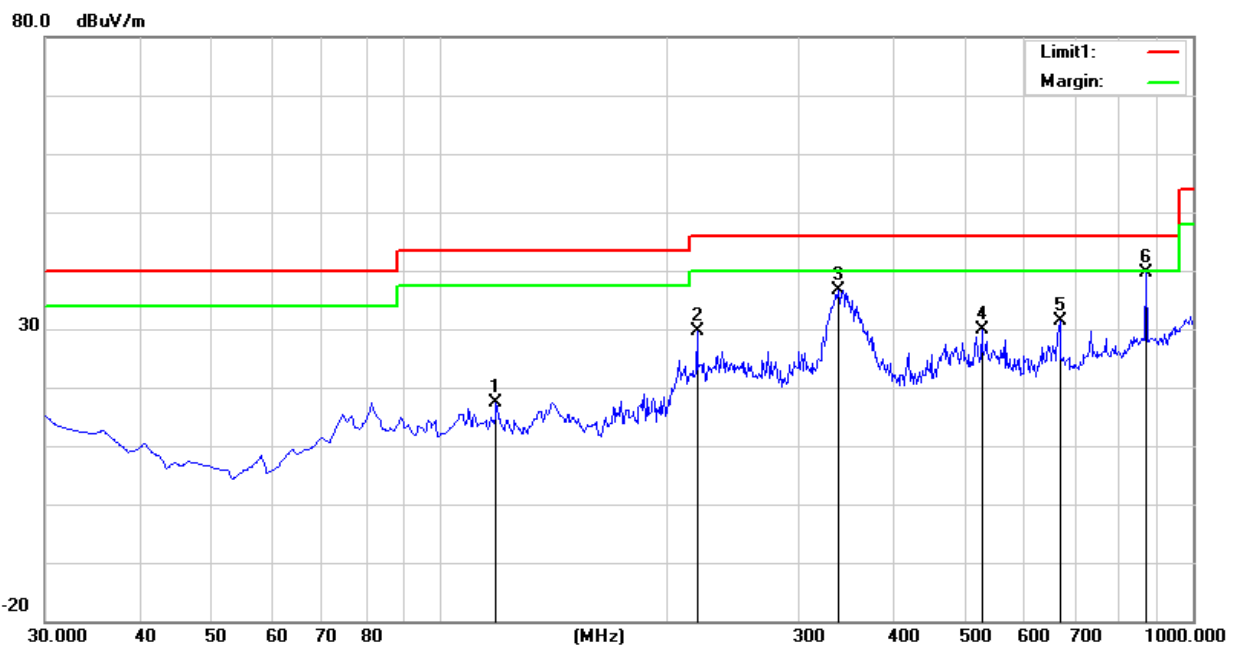
3.2.8 TEST RESULTS (Between 30MHz – 1GHz)

Temperature	23.4°C	Relative Humidity:	60%
Test Voltage	DC 3.3V	Polarization:	Horizontal
Test Mode	802.11n20 (worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	119.2400	35.88	-18.38	17.50	43.50	-26.00	peak
2	220.1200	49.33	-19.59	29.74	46.00	-16.26	peak
3	339.4300	50.07	-13.43	36.64	46.00	-9.36	peak
4	524.7000	37.43	-7.65	29.78	46.00	-16.22	peak
5	666.3200	36.02	-4.66	31.36	46.00	-14.64	peak
6	869.0500	40.14	-0.52	39.62	46.00	-6.38	peak

Remark:

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



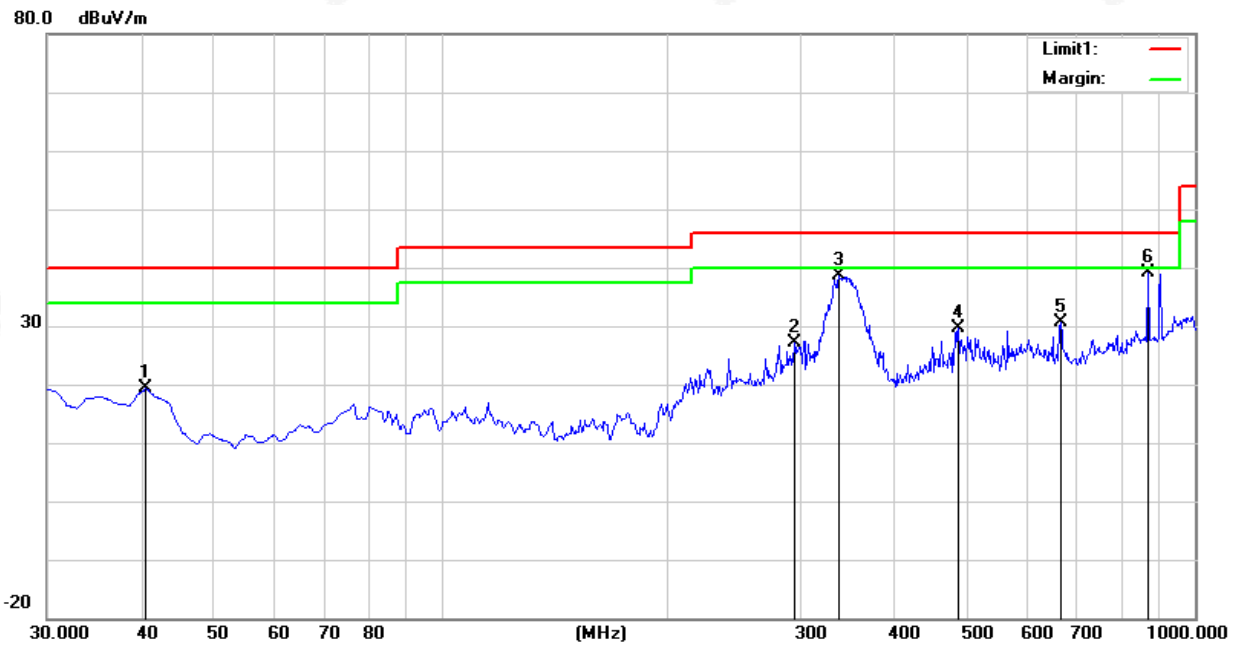
Temperature	23.4°C	Relative Humidity:	60%
Test Voltage	DC 3.3V	Polarization:	Vertical
Test Mode	802.11n20 (worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	40.6700	37.68	-18.40	19.28	40.00	-20.72	peak
2	294.8100	42.09	-14.98	27.11	46.00	-18.89	peak
3	337.4900	52.10	-13.49	38.61	46.00	-7.39	peak
4	485.9000	38.12	-8.40	29.72	46.00	-16.28	peak
5	664.3800	35.25	-4.71	30.54	46.00	-15.46	peak
6	869.0500	39.58	-0.52	39.06	46.00	-6.94	peak

Remark:

3. Margin = Result (Result = Reading + Factor) - Limit

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





3.2.8 TEST RESULTS (Above 1000 MHz)

U-NII-1 5150-5250MHz

U-NII 1(5.15-5.25) GHz MIMO										
Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11n20)										
3254.05	44.79	44.70	6.70	28.20	-9.80	34.99	68.20	-33.21	Pk	Vertical
3254.05	41.71	44.70	6.70	28.20	-9.80	31.91	54.00	-22.09	AV	Vertical
3255.72	45.05	44.70	6.70	28.20	-9.80	35.25	68.20	-32.95	Pk	Horizontal
3255.72	41.09	44.70	6.70	28.20	-9.80	31.29	54.00	-22.71	AV	Horizontal
3995.67	39.60	44.20	7.90	29.70	-6.60	33.00	74.00	-41.00	Pk	Vertical
3995.67	35.85	44.20	7.90	29.70	-6.60	29.25	54.00	-24.75	AV	Vertical
3985.75	40.13	44.20	7.90	29.70	-6.60	33.53	74.00	-40.47	Pk	Horizontal
3985.75	36.79	44.20	7.90	29.70	-6.60	30.19	54.00	-23.81	AV	Horizontal
7232.32	37.32	43.50	11.40	35.50	3.40	40.72	68.20	-27.48	Pk	Vertical
7232.32	33.93	43.50	11.40	35.50	3.40	37.33	54.00	-16.67	AV	Vertical
7232.26	36.97	43.50	11.40	35.50	3.40	40.37	68.20	-27.83	Pk	Horizontal
7232.26	33.58	43.50	11.40	35.50	3.40	36.98	54.00	-17.02	AV	Horizontal
10360.25	39.93	44.50	13.80	38.80	8.10	48.03	68.20	-20.17	Pk	Vertical
10360.25	35.80	44.50	13.80	38.80	8.10	43.90	54.00	-10.10	AV	Vertical
10360.24	39.61	44.50	13.80	38.80	8.10	47.71	68.20	-20.49	Pk	Horizontal
10360.24	35.70	44.50	13.80	38.80	8.10	43.80	54.00	-10.20	AV	Horizontal
11024.83	33.96	43.60	14.30	39.50	10.20	44.16	74.00	-29.84	Pk	Vertical
11024.83	30.62	43.60	14.30	39.50	10.20	40.82	54.00	-13.18	AV	Vertical
11032.96	33.75	43.60	14.30	39.50	10.20	43.95	74.00	-30.05	Pk	Horizontal
11032.96	31.01	43.60	14.30	39.50	10.20	41.21	54.00	-12.79	AV	Horizontal
13299.52	32.23	42.60	15.90	38.90	12.20	44.43	74.00	-29.57	Pk	Vertical
13299.52	29.63	42.60	15.90	38.90	12.20	41.83	54.00	-12.17	AV	Vertical
13289.79	33.00	42.60	15.90	38.90	12.20	45.20	74.00	-28.80	Pk	Horizontal
13289.79	29.13	42.60	15.90	38.90	12.20	41.33	54.00	-12.67	AV	Horizontal
Mid Channel										
3246.47	44.96	44.70	6.70	28.20	-9.80	35.16	68.20	-33.04	Pk	Vertical
3246.47	41.71	44.70	6.70	28.20	-9.80	31.91	54.00	-22.09	AV	Vertical
3251.80	44.89	44.70	6.70	28.20	-9.80	35.09	68.20	-33.11	Pk	Horizontal
3251.80	40.79	44.70	6.70	28.20	-9.80	30.99	54.00	-23.01	AV	Horizontal
3997.89	39.30	44.20	7.90	29.70	-6.60	32.70	74.00	-41.30	Pk	Vertical
3997.89	36.58	44.20	7.90	29.70	-6.60	29.98	54.00	-24.02	AV	Vertical
3984.00	38.86	44.20	7.90	29.70	-6.60	32.26	74.00	-41.74	Pk	Horizontal
3984.00	35.89	44.20	7.90	29.70	-6.60	29.29	54.00	-24.71	AV	Horizontal
7222.54	37.74	43.50	11.40	35.50	3.40	41.14	68.20	-27.06	Pk	Vertical
7222.54	33.87	43.50	11.40	35.50	3.40	37.27	54.00	-16.73	AV	Vertical
7228.89	37.61	43.50	11.40	35.50	3.40	41.01	68.20	-27.19	Pk	Horizontal
7228.89	34.12	43.50	11.40	35.50	3.40	37.52	54.00	-16.48	AV	Horizontal
10400.06	38.99	44.50	13.80	38.80	8.10	47.09	68.20	-21.11	Pk	Vertical
10400.06	36.97	44.50	13.80	38.80	8.10	45.07	54.00	-8.93	AV	Vertical
10400.23	39.84	44.50	13.80	38.80	8.10	47.94	68.20	-20.26	Pk	Horizontal
10400.23	35.77	44.50	13.80	38.80	8.10	43.87	54.00	-10.13	AV	Horizontal
11032.53	33.12	43.60	14.30	39.50	10.20	43.32	74.00	-30.68	Pk	Vertical
11032.53	30.29	43.60	14.30	39.50	10.20	40.49	54.00	-13.51	AV	Vertical
11020.09	33.20	43.60	14.30	39.50	10.20	43.40	74.00	-30.60	Pk	Horizontal
11020.09	31.07	43.60	14.30	39.50	10.20	41.27	54.00	-12.73	AV	Horizontal
13287.56	31.67	42.60	15.90	38.90	12.20	43.87	74.00	-30.13	Pk	Vertical
13287.56	29.54	42.60	15.90	38.90	12.20	41.74	54.00	-12.26	AV	Vertical
13292.84	32.92	42.60	15.90	38.90	12.20	45.12	74.00	-28.88	Pk	Horizontal
13292.84	29.46	42.60	15.90	38.90	12.20	41.66	54.00	-12.34	AV	Horizontal



High Channel										
3261.87	44.73	44.70	6.70	28.20	-9.80	34.93	74.00	-39.07	Pk	Vertical
3261.87	41.90	44.70	6.70	28.20	-9.80	32.10	54.00	-21.90	AV	Vertical
3248.70	43.90	44.70	6.70	28.20	-9.80	34.10	68.20	-34.10	Pk	Horizontal
3248.70	42.03	44.70	6.70	28.20	-9.80	32.23	54.00	-21.77	AV	Horizontal
3987.05	39.05	44.20	7.90	29.70	-6.60	32.45	74.00	-41.55	Pk	Vertical
3987.05	35.74	44.20	7.90	29.70	-6.60	29.14	54.00	-24.86	AV	Vertical
3985.02	39.27	44.20	7.90	29.70	-6.60	32.67	74.00	-41.33	Pk	Horizontal
3985.02	36.01	44.20	7.90	29.70	-6.60	29.41	54.00	-24.59	AV	Horizontal
7230.56	37.38	43.50	11.40	35.50	3.40	40.78	68.20	-27.42	Pk	Vertical
7230.56	34.54	43.50	11.40	35.50	3.40	37.94	54.00	-16.06	AV	Vertical
7222.85	37.25	43.50	11.40	35.50	3.40	40.65	68.20	-27.55	Pk	Horizontal
7222.85	33.66	43.50	11.40	35.50	3.40	37.06	54.00	-16.94	AV	Horizontal
10480.04	39.10	44.50	13.80	38.80	8.10	47.20	68.20	-21.00	Pk	Vertical
10480.04	36.48	44.50	13.80	38.80	8.10	44.58	54.00	-9.42	AV	Vertical
10480.43	39.66	44.50	13.80	38.80	8.10	47.76	68.20	-20.44	Pk	Horizontal
10480.43	36.20	44.50	13.80	38.80	8.10	44.30	54.00	-9.70	AV	Horizontal
11033.06	33.71	43.60	14.30	39.50	10.20	43.91	74.00	-30.09	Pk	Vertical
11033.06	30.48	43.60	14.30	39.50	10.20	40.68	54.00	-13.32	AV	Vertical
11024.59	33.72	43.60	14.30	39.50	10.20	43.92	74.00	-30.08	Pk	Horizontal
11024.59	30.89	43.60	14.30	39.50	10.20	41.09	54.00	-12.91	AV	Horizontal
13280.60	32.37	42.60	15.90	38.90	12.20	44.57	74.00	-29.43	Pk	Vertical
13280.60	29.32	42.60	15.90	38.90	12.20	41.52	54.00	-12.48	AV	Vertical
13294.21	32.12	42.60	15.90	38.90	12.20	44.32	74.00	-29.68	Pk	Horizontal
13294.21	29.30	42.60	15.90	38.90	12.20	41.50	54.00	-12.50	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measured, only worst mode was reported.
3. 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.



U-NII-2A 5250-5350MHz

U-NII 2A(5.25-5.35) GHz MIMO										
Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11n20)										
3262.01	44.92	44.70	6.70	28.20	-9.80	35.12	74.00	-38.88	Pk	Vertical
3262.01	41.99	44.70	6.70	28.20	-9.80	32.19	54.00	-21.81	AV	Vertical
3257.18	44.19	44.70	6.70	28.20	-9.80	34.39	68.20	-33.81	Pk	Horizontal
3257.18	41.69	44.70	6.70	28.20	-9.80	31.89	54.00	-22.11	AV	Horizontal
3984.64	40.07	44.20	7.90	29.70	-6.60	33.47	74.00	-40.53	Pk	Vertical
3984.64	36.81	44.20	7.90	29.70	-6.60	30.21	54.00	-23.79	AV	Vertical
3987.31	39.64	44.20	7.90	29.70	-6.60	33.04	74.00	-40.96	Pk	Horizontal
3987.31	36.57	44.20	7.90	29.70	-6.60	29.97	54.00	-24.03	AV	Horizontal
7233.05	37.66	43.50	11.40	35.50	3.40	41.06	68.20	-27.14	Pk	Vertical
7233.05	33.76	43.50	11.40	35.50	3.40	37.16	54.00	-16.84	AV	Vertical
7225.66	37.05	43.50	11.40	35.50	3.40	40.45	68.20	-27.75	Pk	Horizontal
7225.66	33.77	43.50	11.40	35.50	3.40	37.17	54.00	-16.83	AV	Horizontal
10520.39	39.80	44.50	13.90	38.80	8.20	48.00	68.20	-20.20	Pk	Vertical
10520.39	35.94	44.50	13.90	38.80	8.20	44.14	54.00	-9.86	AV	Vertical
10520.18	39.23	44.50	13.90	38.80	8.20	47.43	68.20	-20.77	Pk	Horizontal
10520.18	36.17	44.50	13.90	38.80	8.20	44.37	54.00	-9.63	AV	Horizontal
11035.61	33.97	43.60	14.30	39.50	10.20	44.17	74.00	-29.83	Pk	Vertical
11035.61	30.96	43.60	14.30	39.50	10.20	41.16	54.00	-12.84	AV	Vertical
11016.62	33.27	43.60	14.30	39.50	10.20	43.47	74.00	-30.53	Pk	Horizontal
11016.62	30.37	43.60	14.30	39.50	10.20	40.57	54.00	-13.43	AV	Horizontal
13284.63	32.66	42.60	15.90	38.90	12.20	44.86	74.00	-29.14	Pk	Vertical
13284.63	29.79	42.60	15.90	38.90	12.20	41.99	54.00	-12.01	AV	Vertical
13284.90	31.80	42.60	15.90	38.90	12.20	44.00	74.00	-30.00	Pk	Horizontal
13284.90	29.04	42.60	15.90	38.90	12.20	41.24	54.00	-12.76	AV	Horizontal
Mid Channel										
3247.83	43.77	44.70	6.70	28.20	-9.80	33.97	68.20	-34.23	Pk	Vertical
3247.83	41.73	44.70	6.70	28.20	-9.80	31.93	54.00	-22.07	AV	Vertical
3260.70	44.14	44.70	6.70	28.20	-9.80	34.34	74.00	-39.66	Pk	Horizontal
3260.70	41.94	44.70	6.70	28.20	-9.80	32.14	54.00	-21.86	AV	Horizontal
3989.97	40.06	44.20	7.90	29.70	-6.60	33.46	74.00	-40.54	Pk	Vertical
3989.97	36.89	44.20	7.90	29.70	-6.60	30.29	54.00	-23.71	AV	Vertical
3990.75	38.97	44.20	7.90	29.70	-6.60	32.37	74.00	-41.63	Pk	Horizontal
3990.75	36.68	44.20	7.90	29.70	-6.60	30.08	54.00	-23.92	AV	Horizontal
7220.70	37.58	43.50	11.40	35.50	3.40	40.98	68.20	-27.22	Pk	Vertical
7220.70	34.27	43.50	11.40	35.50	3.40	37.67	54.00	-16.33	AV	Vertical
7230.53	36.99	43.50	11.40	35.50	3.40	40.39	68.20	-27.81	Pk	Horizontal
7230.53	33.76	43.50	11.40	35.50	3.40	37.16	54.00	-16.84	AV	Horizontal
10600.35	39.99	44.50	13.80	38.80	8.10	48.09	74.00	-25.91	Pk	Vertical
10600.35	35.76	44.50	13.80	38.80	8.10	43.86	54.00	-10.14	AV	Vertical
10600.38	39.14	44.50	13.80	38.80	8.10	47.24	74.00	-26.76	Pk	Horizontal
10600.38	35.97	44.50	13.80	38.80	8.10	44.07	54.00	-9.93	AV	Horizontal
11018.20	33.98	43.60	14.30	39.50	10.20	44.18	74.00	-29.82	Pk	Vertical
11018.20	29.77	43.60	14.30	39.50	10.20	39.97	54.00	-14.03	AV	Vertical
11021.25	32.84	43.60	14.30	39.50	10.20	43.04	74.00	-30.96	Pk	Horizontal
11021.25	30.27	43.60	14.30	39.50	10.20	40.47	54.00	-13.53	AV	Horizontal
13292.85	31.68	42.60	15.90	38.90	12.20	43.88	74.00	-30.12	Pk	Vertical
13292.85	29.54	42.60	15.90	38.90	12.20	41.74	54.00	-12.26	AV	Vertical
13290.75	31.80	42.60	15.90	38.90	12.20	44.00	74.00	-30.00	Pk	Horizontal
13290.75	28.67	42.60	15.90	38.90	12.20	40.87	54.00	-13.13	AV	Horizontal



High Channel										
3264.14	44.39	44.70	6.70	28.20	-9.80	34.59	74.00	-39.41	Pk	Vertical
3264.14	41.74	44.70	6.70	28.20	-9.80	31.94	54.00	-22.06	AV	Vertical
3246.34	44.98	44.70	6.70	28.20	-9.80	35.18	68.20	-33.02	Pk	Horizontal
3246.34	42.05	44.70	6.70	28.20	-9.80	32.25	54.00	-21.75	AV	Horizontal
3990.06	39.70	44.20	7.90	29.70	-6.60	33.10	74.00	-40.90	Pk	Vertical
3990.06	36.42	44.20	7.90	29.70	-6.60	29.82	54.00	-24.18	AV	Vertical
3999.57	38.70	44.20	7.90	29.70	-6.60	32.10	74.00	-41.90	Pk	Horizontal
3999.57	36.56	44.20	7.90	29.70	-6.60	29.96	54.00	-24.04	AV	Horizontal
7230.12	37.13	43.50	11.40	35.50	3.40	40.53	68.20	-27.67	Pk	Vertical
7230.12	33.95	43.50	11.40	35.50	3.40	37.35	54.00	-16.65	AV	Vertical
7235.70	37.70	43.50	11.40	35.50	3.40	41.10	68.20	-27.10	Pk	Horizontal
7235.70	34.19	43.50	11.40	35.50	3.40	37.59	54.00	-16.41	AV	Horizontal
10639.98	39.72	44.50	13.80	38.80	8.10	47.82	74.00	-26.18	Pk	Vertical
10639.98	36.94	44.50	13.80	38.80	8.10	45.04	54.00	-8.96	AV	Vertical
10640.24	39.93	44.50	13.80	38.80	8.10	48.03	74.00	-25.97	Pk	Horizontal
10640.24	35.79	44.50	13.80	38.80	8.10	43.89	54.00	-10.11	AV	Horizontal
11017.36	32.96	43.60	14.30	39.50	10.20	43.16	74.00	-30.84	Pk	Vertical
11017.36	30.61	43.60	14.30	39.50	10.20	40.81	54.00	-13.19	AV	Vertical
11030.22	33.13	43.60	14.30	39.50	10.20	43.33	74.00	-30.67	Pk	Horizontal
11030.22	30.26	43.60	14.30	39.50	10.20	40.46	54.00	-13.54	AV	Horizontal
13290.04	31.71	42.70	18.00	37.10	12.40	44.11	74.00	-29.89	Pk	Vertical
13290.04	29.41	42.70	18.00	37.10	12.40	41.81	54.00	-12.19	AV	Vertical
13281.96	32.66	42.70	18.00	37.10	12.40	45.06	74.00	-28.94	Pk	Horizontal
13281.96	28.95	42.70	18.00	37.10	12.40	41.35	54.00	-12.65	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measured, only worst mode was reported.
3. 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.



U-NII-2C 5470-5725MHz

U-NII 2C(5.47-5.725) GHz MIMO										
Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11n20)										
3246.44	44.07	44.70	6.70	28.20	-9.80	34.27	68.20	-33.93	Pk	Vertical
3246.44	41.58	44.70	6.70	28.20	-9.80	31.78	54.00	-22.22	AV	Vertical
3262.51	44.57	44.70	6.70	28.20	-9.80	34.77	74.00	-39.23	Pk	Horizontal
3262.51	42.01	44.70	6.70	28.20	-9.80	32.21	54.00	-21.79	AV	Horizontal
3996.63	39.28	44.20	7.90	29.70	-6.60	32.68	74.00	-41.32	Pk	Vertical
3996.63	35.69	44.20	7.90	29.70	-6.60	29.09	54.00	-24.91	AV	Vertical
3988.46	39.62	44.20	7.90	29.70	-6.60	33.02	74.00	-40.98	Pk	Horizontal
3988.46	36.93	44.20	7.90	29.70	-6.60	30.33	54.00	-23.67	AV	Horizontal
7219.95	37.07	43.50	11.40	35.50	3.40	40.47	68.20	-27.73	Pk	Vertical
7219.95	34.28	43.50	11.40	35.50	3.40	37.68	54.00	-16.32	AV	Vertical
7234.08	37.38	43.50	11.40	35.50	3.40	40.78	68.20	-27.42	Pk	Horizontal
7234.08	34.62	43.50	11.40	35.50	3.40	38.02	54.00	-15.98	AV	Horizontal
10344.72	39.92	44.50	13.80	38.80	8.10	48.02	68.20	-20.18	Pk	Vertical
10344.72	36.24	44.50	13.80	38.80	8.10	44.34	54.00	-9.66	AV	Vertical
10356.55	38.95	44.50	13.80	38.80	8.10	47.05	68.20	-21.15	Pk	Horizontal
10356.55	36.82	44.50	13.80	38.80	8.10	44.92	54.00	-9.08	AV	Horizontal
11000.11	33.57	43.60	14.30	39.50	10.20	43.77	74.00	-30.23	Pk	Vertical
11000.11	30.85	43.60	14.30	39.50	10.20	41.05	54.00	-12.95	AV	Vertical
10999.96	33.45	43.60	14.30	39.50	10.20	43.65	74.00	-30.35	Pk	Horizontal
10999.96	29.70	43.60	14.30	39.50	10.20	39.90	54.00	-14.10	AV	Horizontal
13295.47	32.97	42.60	15.90	38.90	12.20	45.17	74.00	-28.83	Pk	Vertical
13295.47	29.31	42.60	15.90	38.90	12.20	41.51	54.00	-12.49	AV	Vertical
13299.45	32.40	42.60	15.90	38.90	12.20	44.60	74.00	-29.40	Pk	Horizontal
13299.45	28.89	42.60	15.90	38.90	12.20	41.09	54.00	-12.91	AV	Horizontal
Mid Channel										
3246.52	44.06	44.70	6.70	28.20	-9.80	34.26	68.20	-33.94	Pk	Vertical
3246.52	40.95	44.70	6.70	28.20	-9.80	31.15	54.00	-22.85	AV	Vertical
3250.45	44.19	44.70	6.70	28.20	-9.80	34.39	68.20	-33.81	Pk	Horizontal
3250.45	40.87	44.70	6.70	28.20	-9.80	31.07	54.00	-22.93	AV	Horizontal
3992.22	39.47	44.20	7.90	29.70	-6.60	32.87	74.00	-41.13	Pk	Vertical
3992.22	36.21	44.20	7.90	29.70	-6.60	29.61	54.00	-24.39	AV	Vertical
3981.90	39.96	44.20	7.90	29.70	-6.60	33.36	74.00	-40.64	Pk	Horizontal
3981.90	37.08	44.20	7.90	29.70	-6.60	30.48	54.00	-23.52	AV	Horizontal
7222.52	36.62	43.50	11.40	35.50	3.40	40.02	68.20	-28.18	Pk	Vertical
7222.52	34.02	43.50	11.40	35.50	3.40	37.42	54.00	-16.58	AV	Vertical
7217.29	36.68	43.50	11.40	35.50	3.40	40.08	68.20	-28.12	Pk	Horizontal
7217.29	33.66	43.50	11.40	35.50	3.40	37.06	54.00	-16.94	AV	Horizontal
10400.18	39.69	44.50	13.80	38.80	8.10	47.79	68.20	-20.41	Pk	Vertical
10400.18	36.74	44.50	13.80	38.80	8.10	44.84	54.00	-9.16	AV	Vertical
10385.65	39.42	44.50	13.80	38.80	8.10	47.52	68.20	-20.68	Pk	Horizontal
10385.65	35.80	44.50	13.80	38.80	8.10	43.90	54.00	-10.10	AV	Horizontal
11160.29	33.58	43.60	14.30	39.50	10.20	43.78	74.00	-30.22	Pk	Vertical
11160.29	30.03	43.60	14.30	39.50	10.20	40.23	54.00	-13.77	AV	Vertical
11160.08	33.37	43.60	14.30	39.50	10.20	43.57	74.00	-30.43	Pk	Horizontal
11160.08	29.68	43.60	14.30	39.50	10.20	39.88	54.00	-14.12	AV	Horizontal
13291.30	32.01	42.60	15.90	38.90	12.20	44.21	74.00	-29.79	Pk	Vertical
13291.30	29.16	42.60	15.90	38.90	12.20	41.36	54.00	-12.64	AV	Vertical
13285.17	32.96	42.60	15.90	38.90	12.20	45.16	74.00	-28.84	Pk	Horizontal
13285.17	28.85	42.60	15.90	38.90	12.20	41.05	54.00	-12.95	AV	Horizontal



High Channel										
3251.38	44.89	44.70	6.70	28.20	-9.80	35.09	68.20	-33.11	Pk	Vertical
3251.38	41.20	44.70	6.70	28.20	-9.80	31.40	54.00	-22.60	AV	Vertical
3249.04	45.01	44.70	6.70	28.20	-9.80	35.21	68.20	-32.99	Pk	Horizontal
3249.04	41.91	44.70	6.70	28.20	-9.80	32.11	54.00	-21.89	AV	Horizontal
3998.81	39.34	44.20	7.90	29.70	-6.60	32.74	74.00	-41.26	Pk	Vertical
3998.81	36.44	44.20	7.90	29.70	-6.60	29.84	54.00	-24.16	AV	Vertical
3982.81	39.92	44.20	7.90	29.70	-6.60	33.32	74.00	-40.68	Pk	Horizontal
3982.81	37.06	44.20	7.90	29.70	-6.60	30.46	54.00	-23.54	AV	Horizontal
7229.41	37.68	43.50	11.40	35.50	3.40	41.08	68.20	-27.12	Pk	Vertical
7229.41	34.88	43.50	11.40	35.50	3.40	38.28	54.00	-15.72	AV	Vertical
7217.43	37.34	43.50	11.40	35.50	3.40	40.74	68.20	-27.46	Pk	Horizontal
7217.43	33.45	43.50	11.40	35.50	3.40	36.85	54.00	-17.15	AV	Horizontal
10465.83	39.56	44.50	13.80	38.80	8.10	47.66	68.20	-20.54	Pk	Vertical
10465.83	37.09	44.50	13.80	38.80	8.10	45.19	54.00	-8.81	AV	Vertical
10477.75	39.55	44.50	13.80	38.80	8.10	47.65	68.20	-20.55	Pk	Horizontal
10477.75	36.04	44.50	13.80	38.80	8.10	44.14	54.00	-9.86	AV	Horizontal
11400.01	33.63	43.60	14.30	39.50	10.20	43.83	74.00	-30.17	Pk	Vertical
11400.01	30.74	43.60	14.30	39.50	10.20	40.94	54.00	-13.06	AV	Vertical
11400.41	33.91	43.60	14.30	39.50	10.20	44.11	74.00	-29.89	Pk	Horizontal
11400.41	30.01	43.60	14.30	39.50	10.20	40.21	54.00	-13.79	AV	Horizontal
13284.12	32.03	42.60	15.90	38.90	12.20	44.23	74.00	-29.77	Pk	Vertical
13284.12	29.83	42.60	15.90	38.90	12.20	42.03	54.00	-11.97	AV	Vertical
13297.41	31.89	42.60	15.90	38.90	12.20	44.09	74.00	-29.91	Pk	Horizontal
13297.41	28.82	42.60	15.90	38.90	12.20	41.02	54.00	-12.98	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measured, only worst mode was reported.
3. 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.



U-NII-3 (5.725-5.850) GHz

U-NII 3(5.725-5.85) GHz MIMO										
Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11n20)										
3262.74	44.50	44.70	6.70	28.20	-9.80	34.70	74.00	-39.30	Pk	Vertical
3262.74	41.56	44.70	6.70	28.20	-9.80	31.76	54.00	-22.24	AV	Vertical
3257.38	44.23	44.70	6.70	28.20	-9.80	34.43	68.20	-33.77	Pk	Horizontal
3257.38	41.50	44.70	6.70	28.20	-9.80	31.70	54.00	-22.30	AV	Horizontal
3985.52	39.85	44.20	7.90	29.70	-6.60	33.25	74.00	-40.75	Pk	Vertical
3985.52	36.33	44.20	7.90	29.70	-6.60	29.73	54.00	-24.27	AV	Vertical
3998.43	39.57	44.20	7.90	29.70	-6.60	32.97	74.00	-41.03	Pk	Horizontal
3998.43	36.34	44.20	7.90	29.70	-6.60	29.74	54.00	-24.26	AV	Horizontal
7230.67	37.01	43.50	11.40	35.50	3.40	40.41	68.20	-27.79	Pk	Vertical
7230.67	33.76	43.50	11.40	35.50	3.40	37.16	54.00	-16.84	AV	Vertical
7219.93	36.76	43.50	11.40	35.50	3.40	40.16	68.20	-28.04	Pk	Horizontal
7219.93	34.15	43.50	11.40	35.50	3.40	37.55	54.00	-16.45	AV	Horizontal
10519.22	39.84	44.50	13.90	38.80	8.20	48.04	68.20	-20.16	Pk	Vertical
10519.22	36.94	44.50	13.90	38.80	8.20	45.14	54.00	-8.86	AV	Vertical
10516.04	39.11	44.50	13.90	38.80	8.20	47.31	68.20	-20.89	Pk	Horizontal
10516.04	36.10	44.50	13.90	38.80	8.20	44.30	54.00	-9.70	AV	Horizontal
11490.14	33.23	43.60	14.30	39.50	10.20	43.43	74.00	-30.57	Pk	Vertical
11490.14	29.73	43.60	14.30	39.50	10.20	39.93	54.00	-14.07	AV	Vertical
11490.18	33.42	43.60	14.30	39.50	10.20	43.62	74.00	-30.38	Pk	Horizontal
11490.18	30.75	43.60	14.30	39.50	10.20	40.95	54.00	-13.05	AV	Horizontal
13299.16	32.90	42.60	15.90	38.90	12.20	45.10	74.00	-28.90	Pk	Vertical
13299.16	29.36	42.60	15.90	38.90	12.20	41.56	54.00	-12.44	AV	Vertical
13289.80	32.75	42.60	15.90	38.90	12.20	44.95	74.00	-29.05	Pk	Horizontal
13289.80	28.84	42.60	15.90	38.90	12.20	41.04	54.00	-12.96	AV	Horizontal
Mid Channel										
3245.81	44.86	44.70	6.70	28.20	-9.80	35.06	68.20	-33.14	Pk	Vertical
3245.81	41.23	44.70	6.70	28.20	-9.80	31.43	54.00	-22.57	AV	Vertical
3262.94	43.95	44.70	6.70	28.20	-9.80	34.15	74.00	-39.85	Pk	Horizontal
3262.94	41.18	44.70	6.70	28.20	-9.80	31.38	54.00	-22.62	AV	Horizontal
3993.25	39.75	44.20	7.90	29.70	-6.60	33.15	74.00	-40.85	Pk	Vertical
3993.25	36.08	44.20	7.90	29.70	-6.60	29.48	54.00	-24.52	AV	Vertical
3992.05	39.58	44.20	7.90	29.70	-6.60	32.98	74.00	-41.02	Pk	Horizontal
3992.05	36.19	44.20	7.90	29.70	-6.60	29.59	54.00	-24.41	AV	Horizontal
7229.29	37.36	43.50	11.40	35.50	3.40	40.76	68.20	-27.44	Pk	Vertical
7229.29	34.11	43.50	11.40	35.50	3.40	37.51	54.00	-16.49	AV	Vertical
7216.48	36.70	43.50	11.40	35.50	3.40	40.10	68.20	-28.10	Pk	Horizontal
7216.48	34.29	43.50	11.40	35.50	3.40	37.69	54.00	-16.31	AV	Horizontal
10588.95	39.93	44.50	13.80	38.80	8.10	48.03	68.20	-20.17	Pk	Vertical
10588.95	36.74	44.50	13.80	38.80	8.10	44.84	54.00	-9.16	AV	Vertical
10596.13	39.36	44.50	13.80	38.80	8.10	47.46	68.20	-20.74	Pk	Horizontal
10596.13	36.19	44.50	13.80	38.80	8.10	44.29	54.00	-9.71	AV	Horizontal
11569.94	33.19	43.60	14.30	39.50	10.20	43.39	74.00	-30.61	Pk	Vertical
11569.94	31.11	43.60	14.30	39.50	10.20	41.31	54.00	-12.69	AV	Vertical
11570.39	33.06	43.60	14.30	39.50	10.20	43.26	74.00	-30.74	Pk	Horizontal
11570.39	30.21	43.60	14.30	39.50	10.20	40.41	54.00	-13.59	AV	Horizontal
13289.66	31.87	42.60	15.90	38.90	12.20	44.07	74.00	-29.93	Pk	Vertical
13289.66	29.38	42.60	15.90	38.90	12.20	41.58	54.00	-12.42	AV	Vertical
13280.73	32.14	42.60	15.90	38.90	12.20	44.34	74.00	-29.66	Pk	Horizontal
13280.73	30.02	42.60	15.90	38.90	12.20	42.22	54.00	-11.78	AV	Horizontal



High Channel										
3253.45	44.55	44.70	6.70	28.20	-9.80	34.75	68.20	-33.45	Pk	Vertical
3253.45	41.57	44.70	6.70	28.20	-9.80	31.77	54.00	-22.23	AV	Vertical
3247.41	44.13	44.70	6.70	28.20	-9.80	34.33	68.20	-33.87	Pk	Horizontal
3247.41	41.35	44.70	6.70	28.20	-9.80	31.55	54.00	-22.45	AV	Horizontal
3996.68	39.81	44.20	7.90	29.70	-6.60	33.21	74.00	-40.79	Pk	Vertical
3996.68	36.34	44.20	7.90	29.70	-6.60	29.74	54.00	-24.26	AV	Vertical
3996.01	39.45	44.20	7.90	29.70	-6.60	32.85	74.00	-41.15	Pk	Horizontal
3996.01	36.20	44.20	7.90	29.70	-6.60	29.60	54.00	-24.40	AV	Horizontal
7221.77	37.38	43.50	11.40	35.50	3.40	40.78	68.20	-27.42	Pk	Vertical
7221.77	34.17	43.50	11.40	35.50	3.40	37.57	54.00	-16.43	AV	Vertical
7235.83	36.66	43.50	11.40	35.50	3.40	40.06	68.20	-28.14	Pk	Horizontal
7235.83	34.57	43.50	11.40	35.50	3.40	37.97	54.00	-16.03	AV	Horizontal
10623.75	39.83	44.50	13.80	38.80	8.10	47.93	74.00	-26.07	Pk	Vertical
10623.75	36.91	44.50	13.80	38.80	8.10	45.01	54.00	-8.99	AV	Vertical
10639.94	39.86	44.50	13.80	38.80	8.10	47.96	74.00	-26.04	Pk	Horizontal
10639.94	35.98	44.50	13.80	38.80	8.10	44.08	54.00	-9.92	AV	Horizontal
11650.29	33.60	43.60	14.30	39.50	10.20	43.80	74.00	-30.20	Pk	Vertical
11650.29	29.89	43.60	14.30	39.50	10.20	40.09	54.00	-13.91	AV	Vertical
11650.03	33.65	43.60	14.30	39.50	10.20	43.85	74.00	-30.15	Pk	Horizontal
11650.03	30.63	43.60	14.30	39.50	10.20	40.83	54.00	-13.17	AV	Horizontal
13299.30	32.96	42.70	18.00	37.10	12.40	45.36	74.00	-28.64	Pk	Vertical
13299.30	29.59	42.70	18.00	37.10	12.40	41.99	54.00	-12.01	AV	Vertical
13290.25	31.57	42.70	18.00	37.10	12.40	43.97	74.00	-30.03	Pk	Horizontal
13290.25	29.59	42.70	18.00	37.10	12.40	41.99	54.00	-12.01	AV	Horizontal

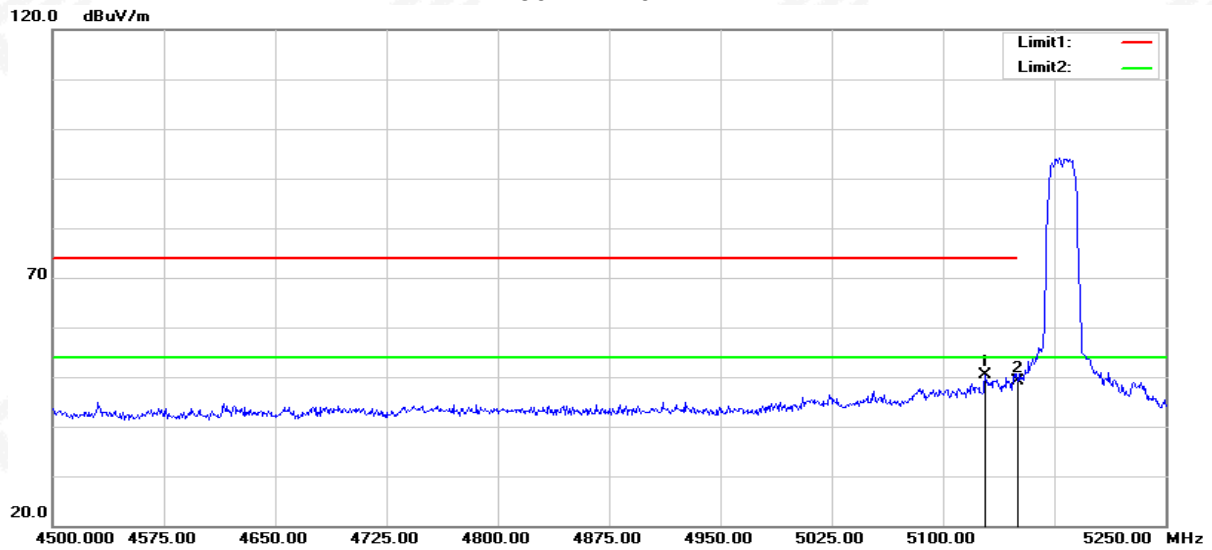
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measured, only worst mode was reported.
3. 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)

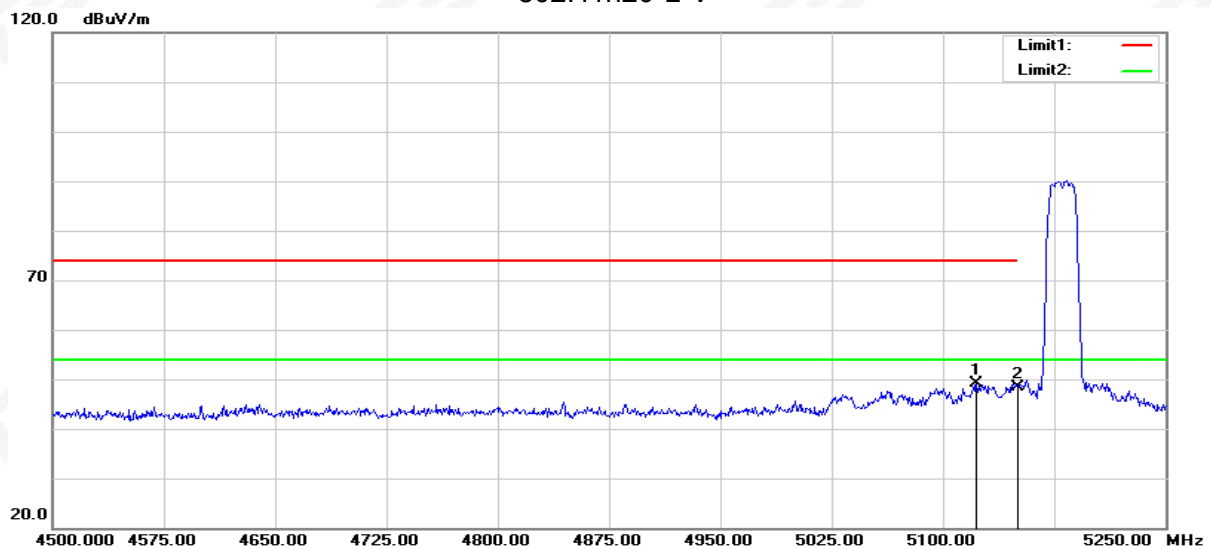
U-NII-1 (5.150-5.2500) GHz

802.11n20-L-H



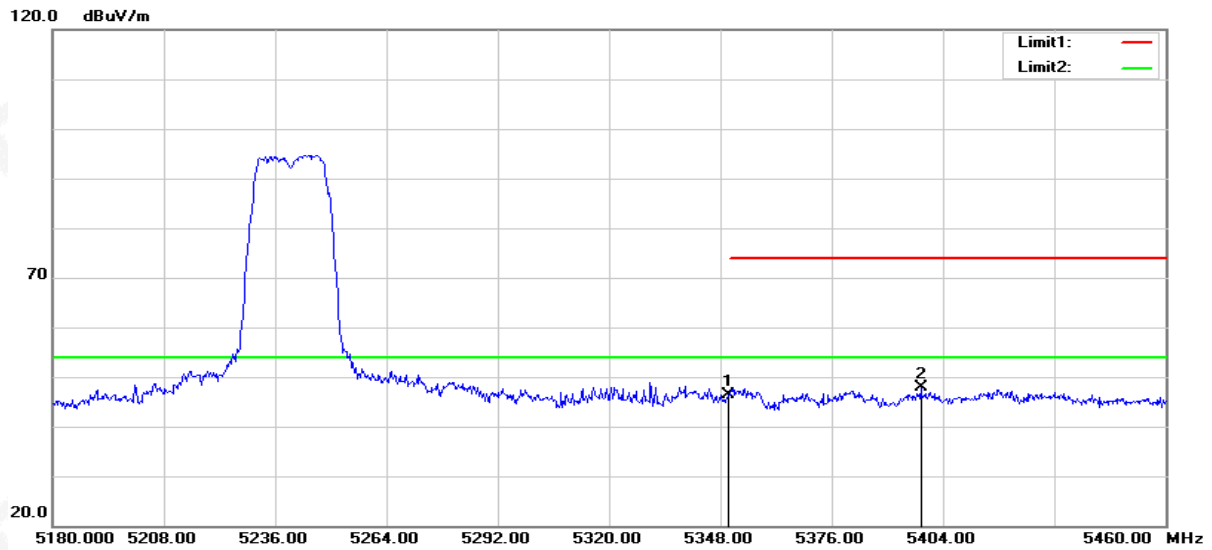
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5128.500	56.22	-5.74	50.48	54.00	-3.52	peak
2	5150.000	54.95	-5.73	49.22	54.00	-4.78	peak

802.11n20-L-V



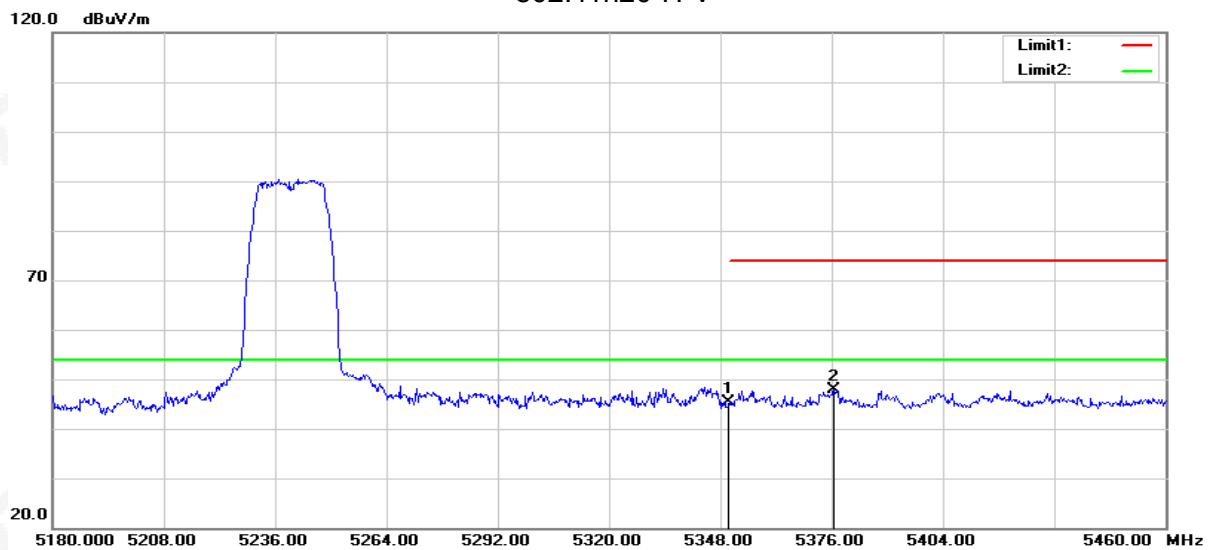
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5122.500	54.92	-5.74	49.18	54.00	-4.82	peak
2	5150.000	54.22	-5.73	48.49	54.00	-5.51	peak

802.11n20-H-H



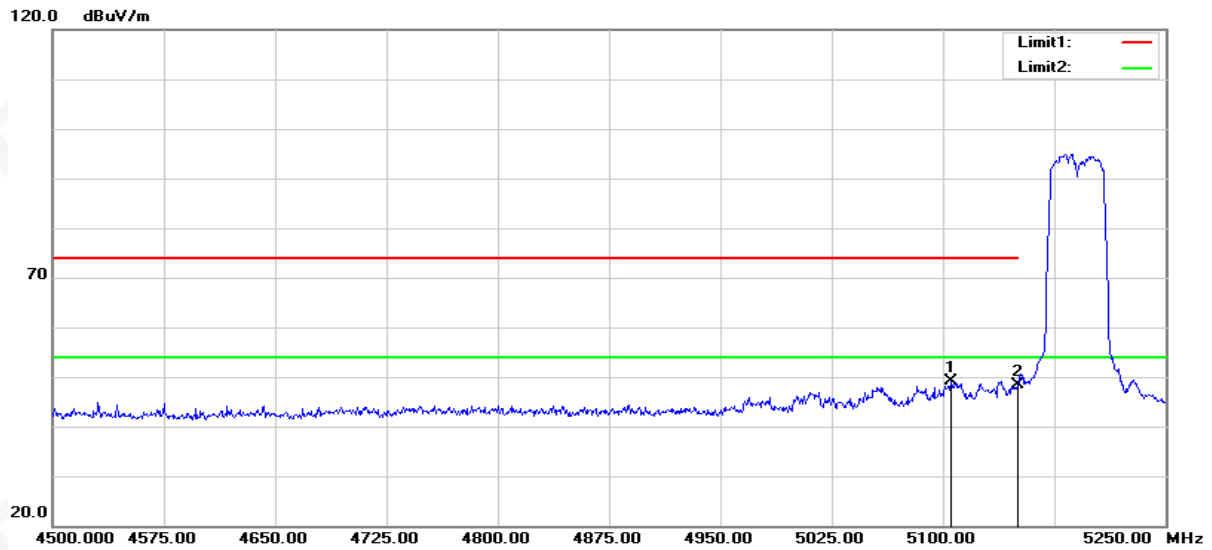
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	51.55	-5.23	46.32	54.00	-7.68	peak
2	5398.400	53.09	-5.25	47.84	54.00	-6.16	peak

802.11n20-H-V



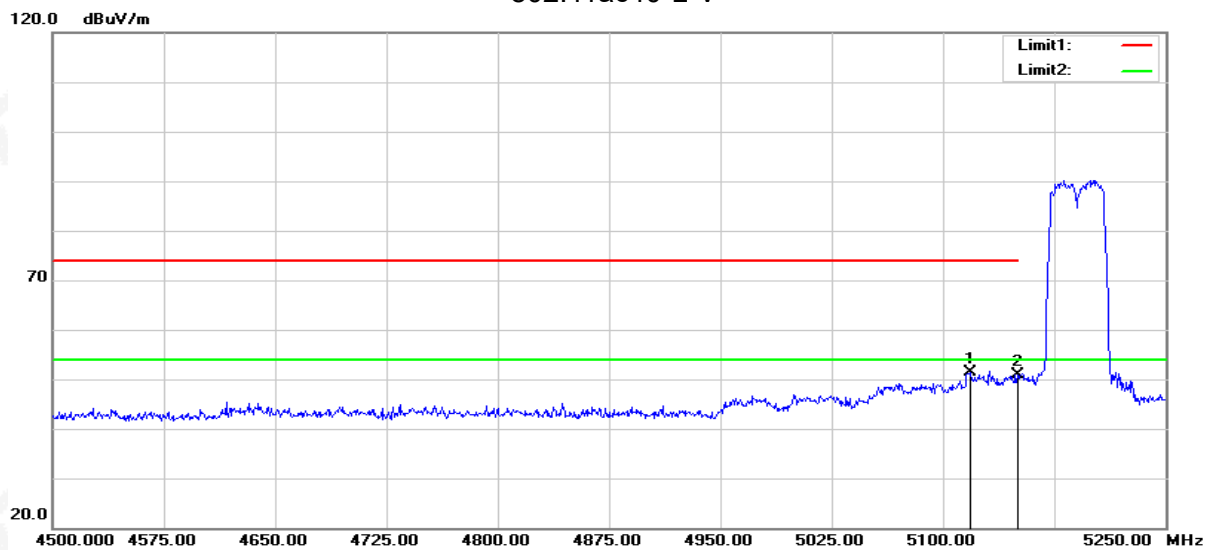
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	50.49	-5.23	45.26	54.00	-8.74	peak
2	5376.560	53.07	-5.24	47.83	54.00	-6.17	peak

802.11ac40-L-H



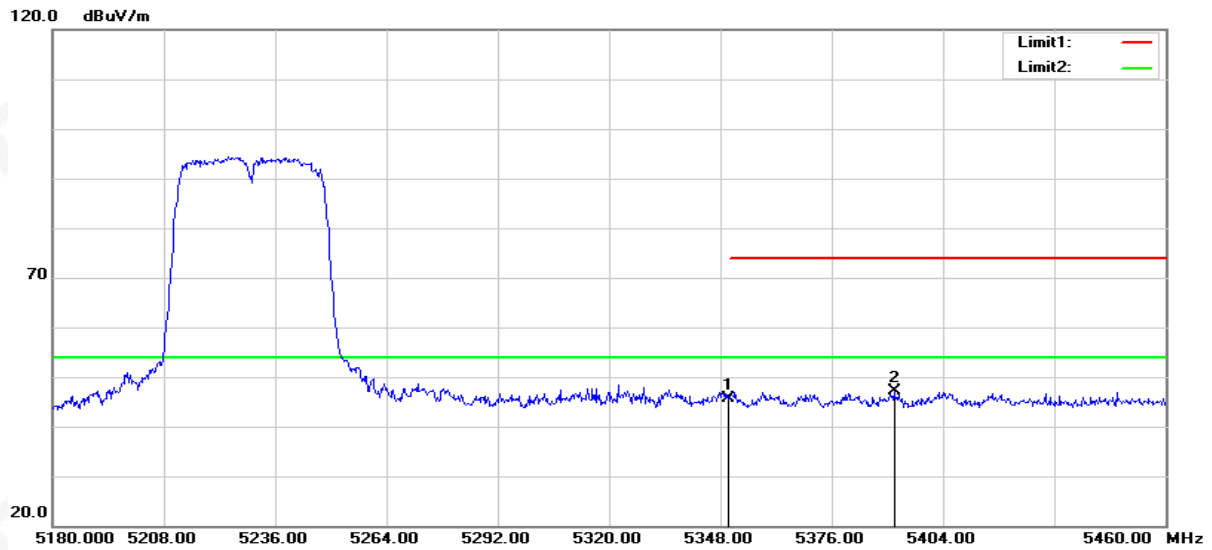
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5105.250	54.78	-5.74	49.04	54.00	-4.96	peak
2	5150.000	54.07	-5.73	48.34	54.00	-5.66	peak

802.11ac40-L-V



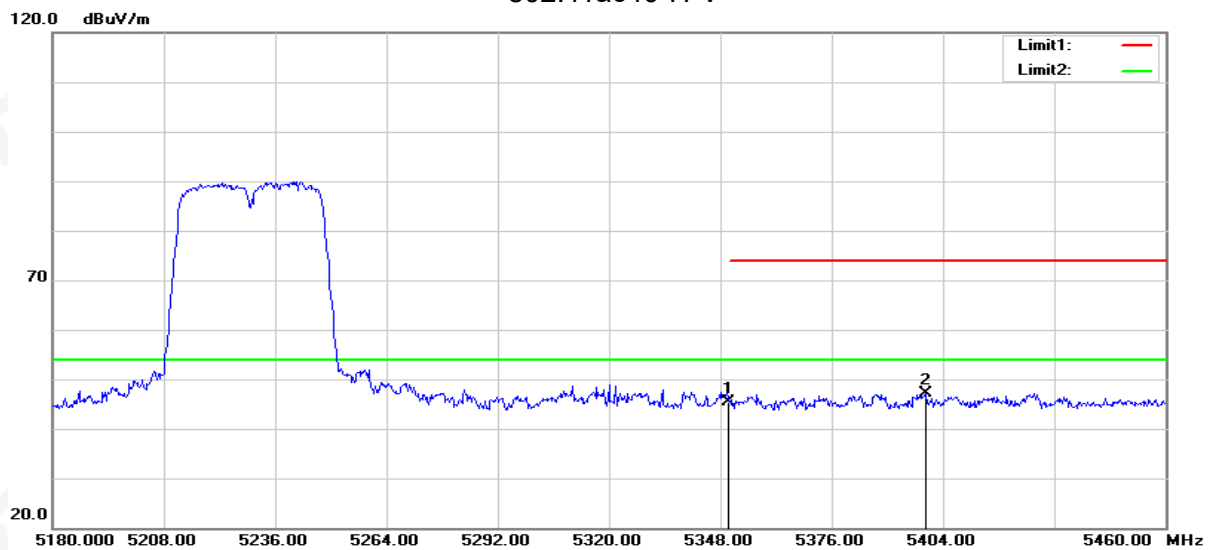
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5118.000	57.01	-5.74	51.27	54.00	-2.73	peak
2	5150.000	56.65	-5.73	50.92	54.00	-3.08	peak

802.11ac40-H-H



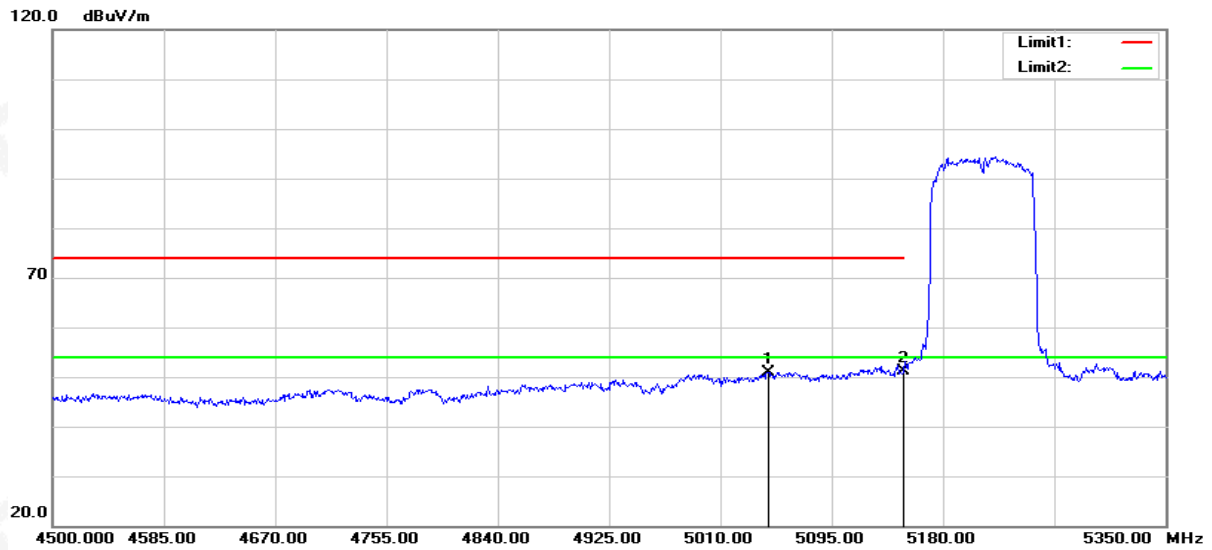
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	50.96	-5.23	45.73	54.00	-8.27	peak
2	5391.680	52.26	-5.25	47.01	54.00	-6.99	peak

802.11ac40-H-V



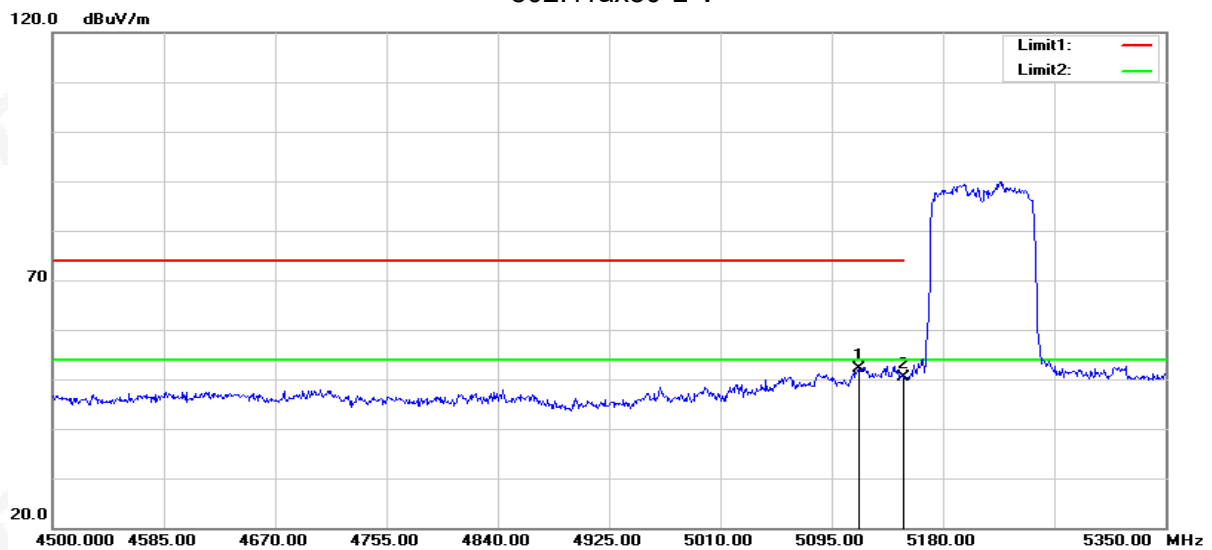
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	50.67	-5.23	45.44	54.00	-8.56	peak
2	5399.520	52.28	-5.25	47.03	54.00	-6.97	peak

802.11ax80-L-H



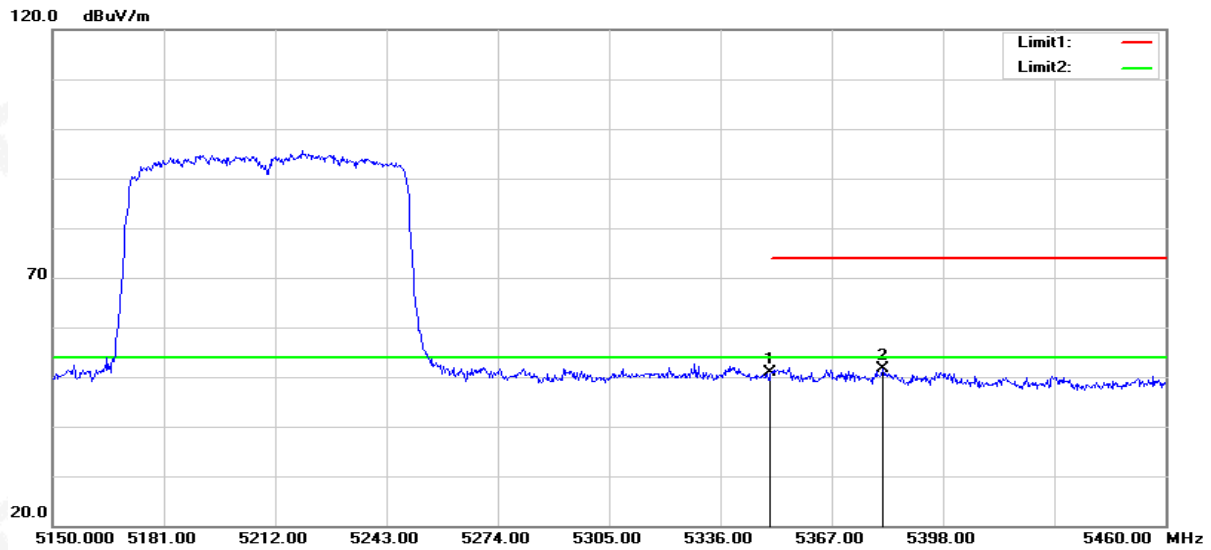
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5046.550	19.33	31.64	50.97	54.00	-3.03	peak
2	5150.000	19.31	31.72	51.03	54.00	-2.97	peak

802.11ax80-L-V



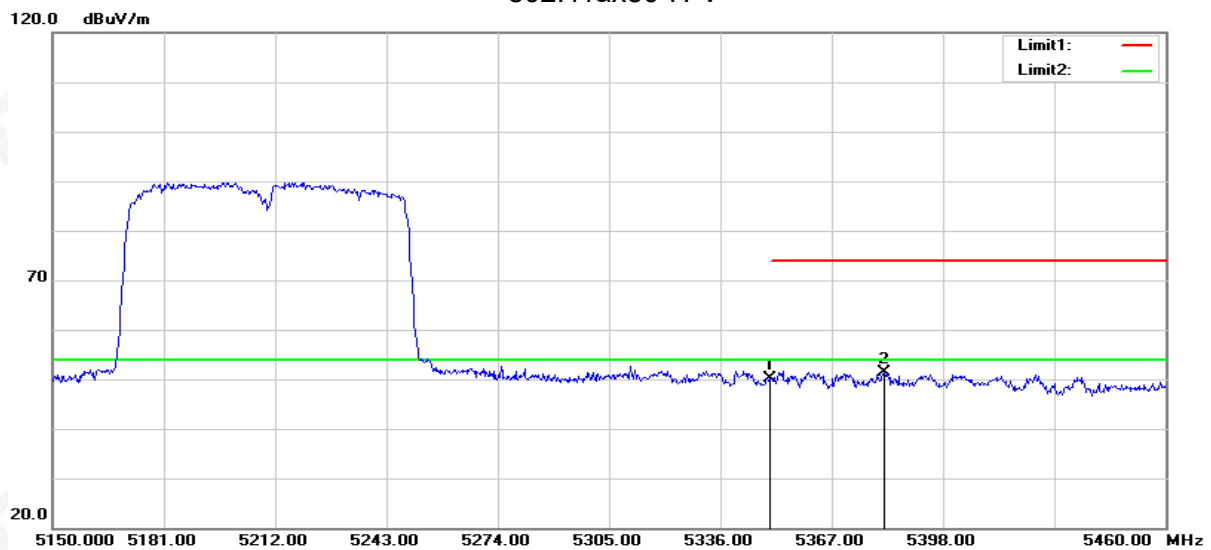
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5116.250	20.45	31.69	52.14	54.00	-1.86	peak
2	5150.000	18.61	31.72	50.33	54.00	-3.67	peak

802.11ax80-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	19.10	31.88	50.98	54.00	-3.02	peak
2	5381.260	19.61	31.91	51.52	54.00	-2.48	peak

802.11ax80-H-V



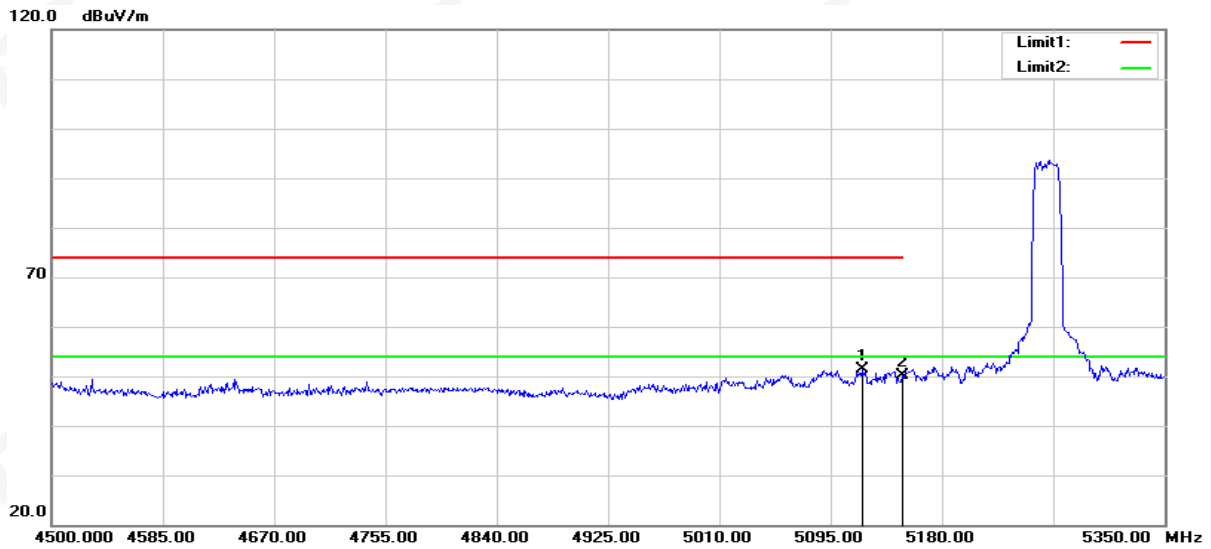
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	18.26	31.88	50.14	54.00	-3.86	peak
2	5381.570	19.51	31.91	51.42	54.00	-2.58	peak

Remark:

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

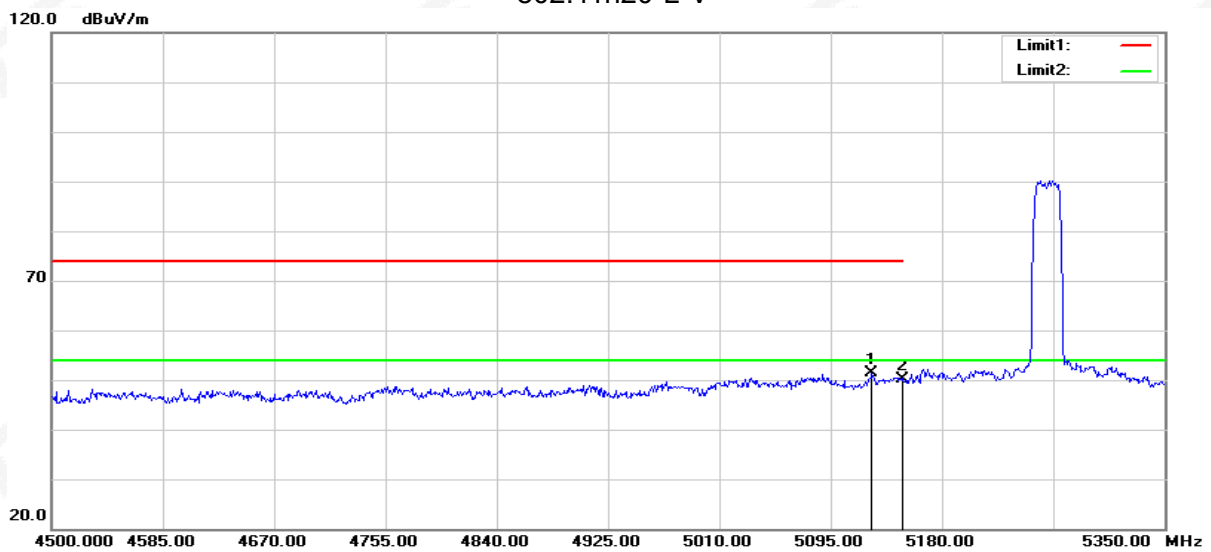
U-NII-2A 5250-5350MHz

802.11n20-L-H



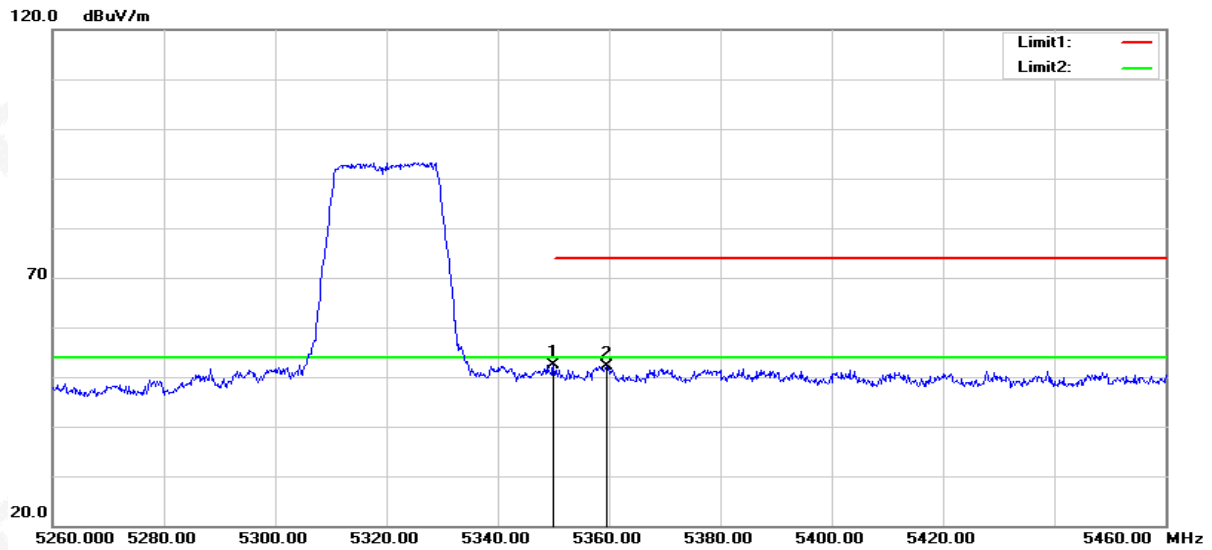
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5118.800	19.59	31.70	51.29	54.00	-2.71	peak
2	5150.000	18.39	31.72	50.11	54.00	-3.89	peak

802.11n20-L-V



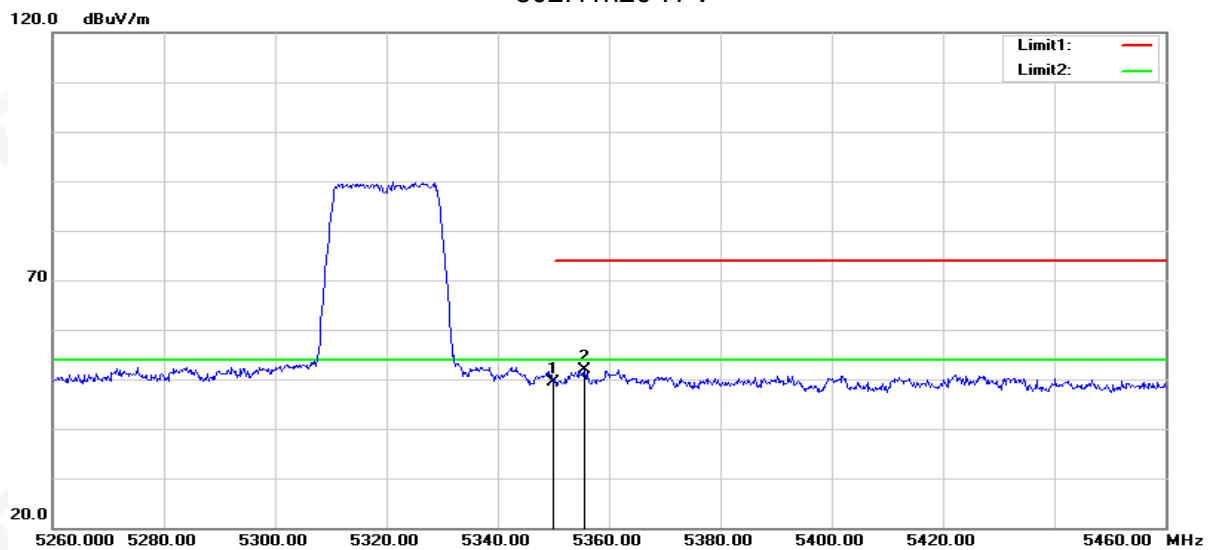
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5126.450	19.60	31.70	51.30	54.00	-2.70	peak
2	5150.000	18.53	31.72	50.25	54.00	-3.75	peak

802.11n20-H-H



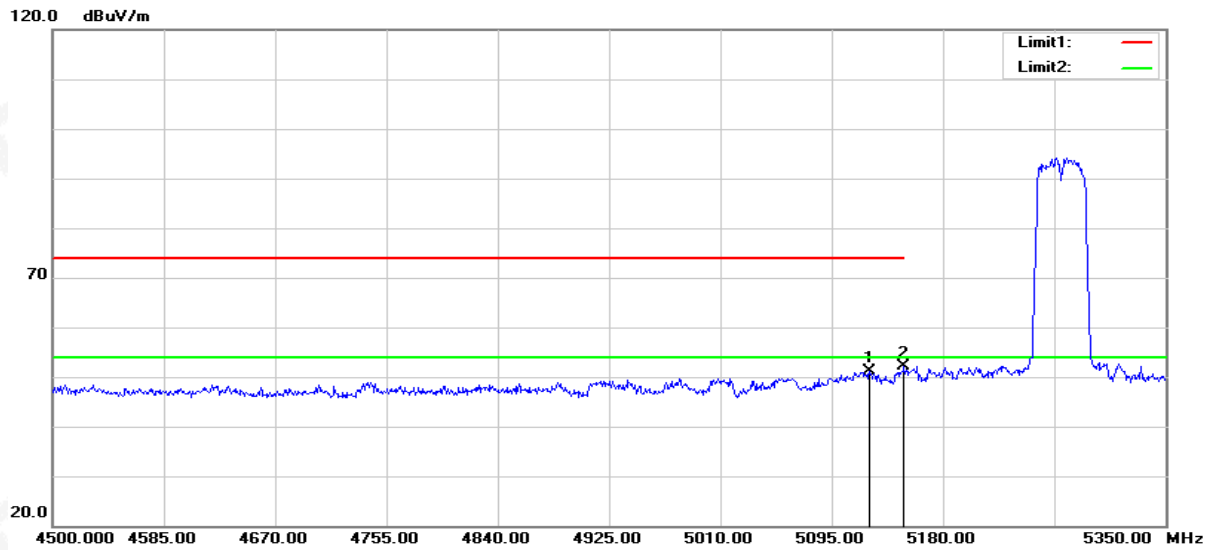
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	20.40	31.88	52.28	54.00	-1.72	peak
2	5359.600	20.35	31.89	52.24	54.00	-1.76	peak

802.11n20-H-V



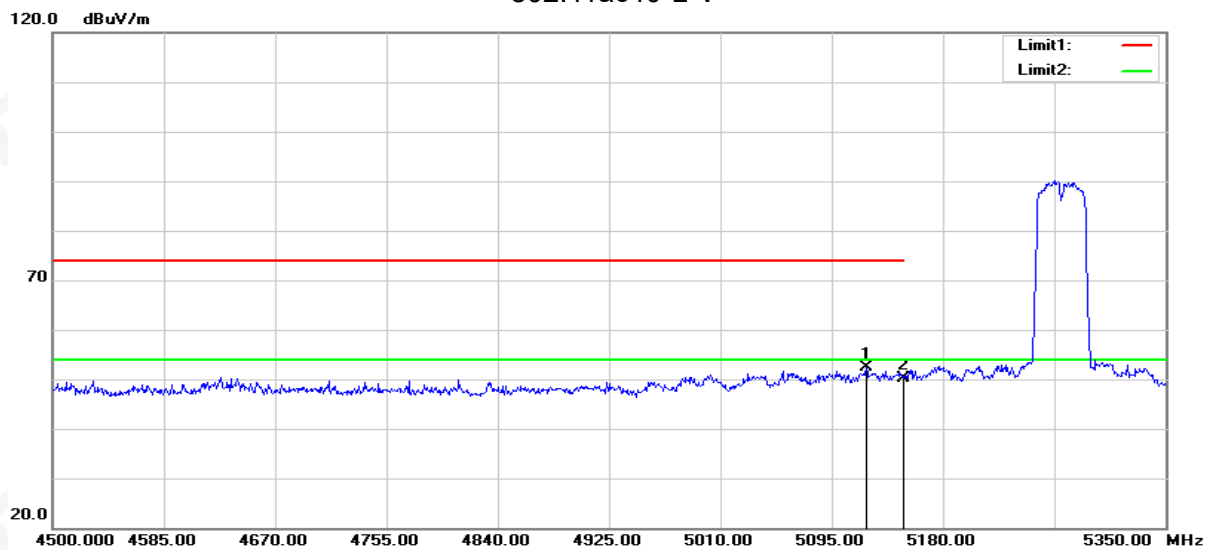
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	17.44	31.88	49.32	54.00	-4.68	peak
2	5355.600	20.08	31.88	51.96	54.00	-2.04	peak

802.11ac40-L-H



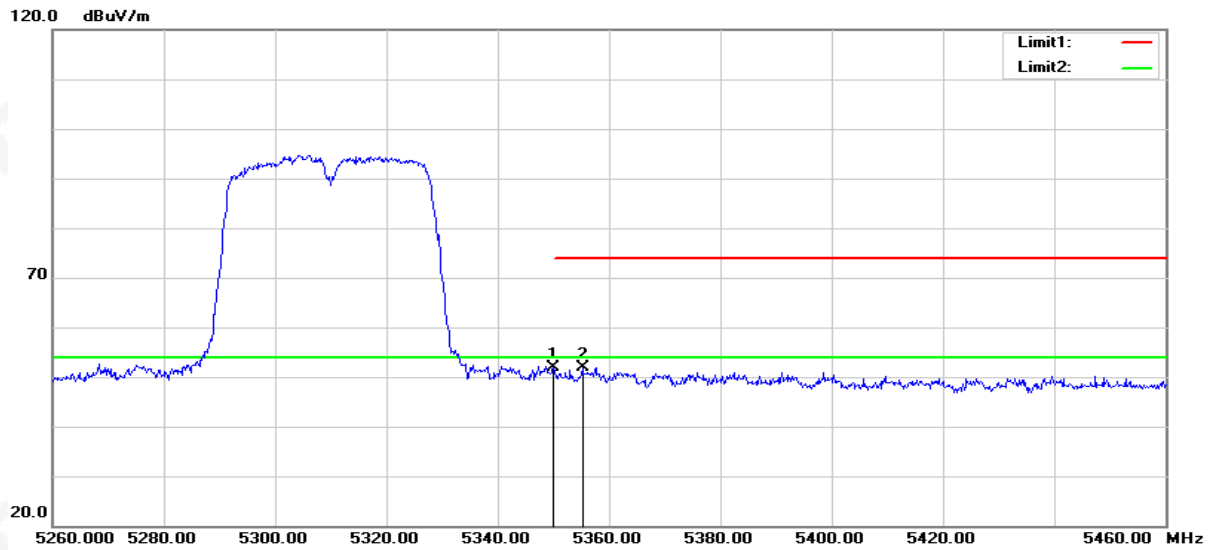
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5123.900	19.45	31.70	51.15	54.00	-2.85	peak
2	5150.000	20.37	31.72	52.09	54.00	-1.91	peak

802.11ac40-L-V



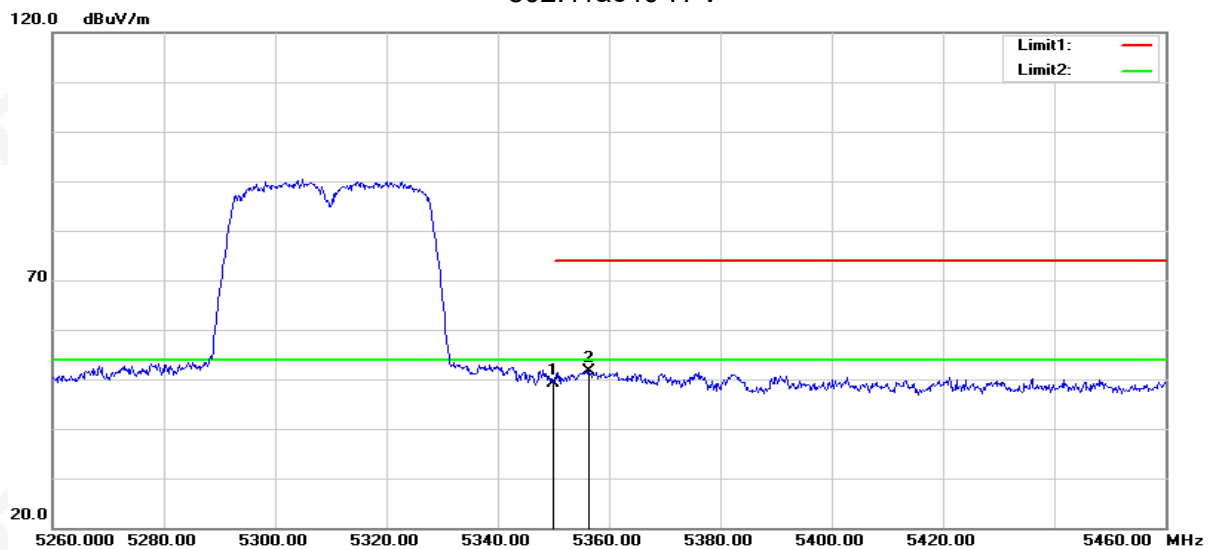
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5121.350	20.58	31.70	52.28	54.00	-1.72	peak
2	5150.000	18.52	31.72	50.24	54.00	-3.76	peak

802.11ac40-H-H



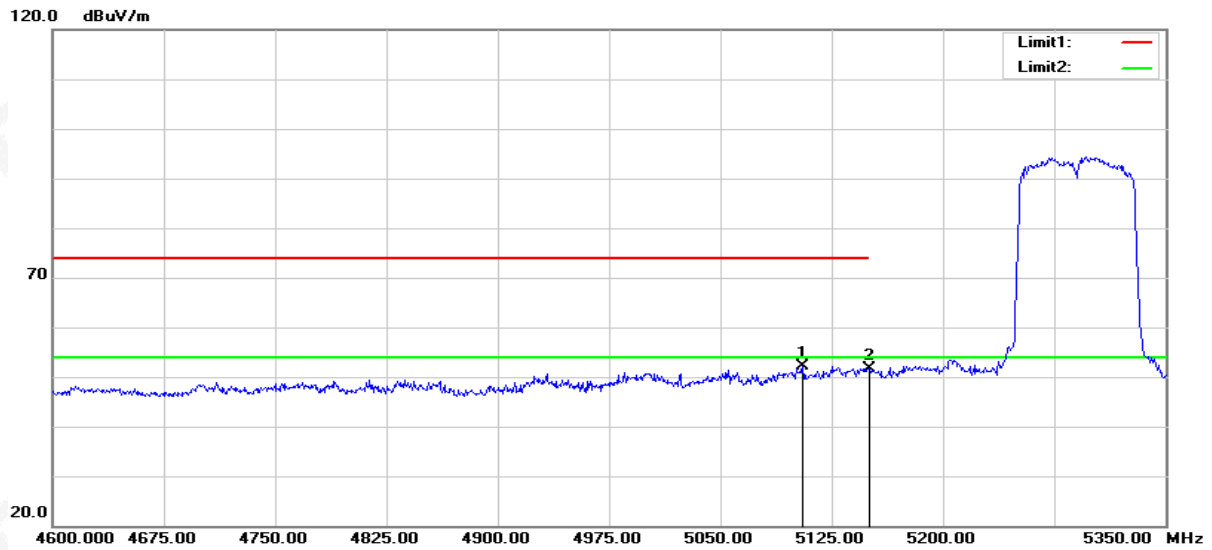
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	19.90	31.88	51.78	54.00	-2.22	peak
2	5355.200	20.06	31.88	51.94	54.00	-2.06	peak

802.11ac40-H-V



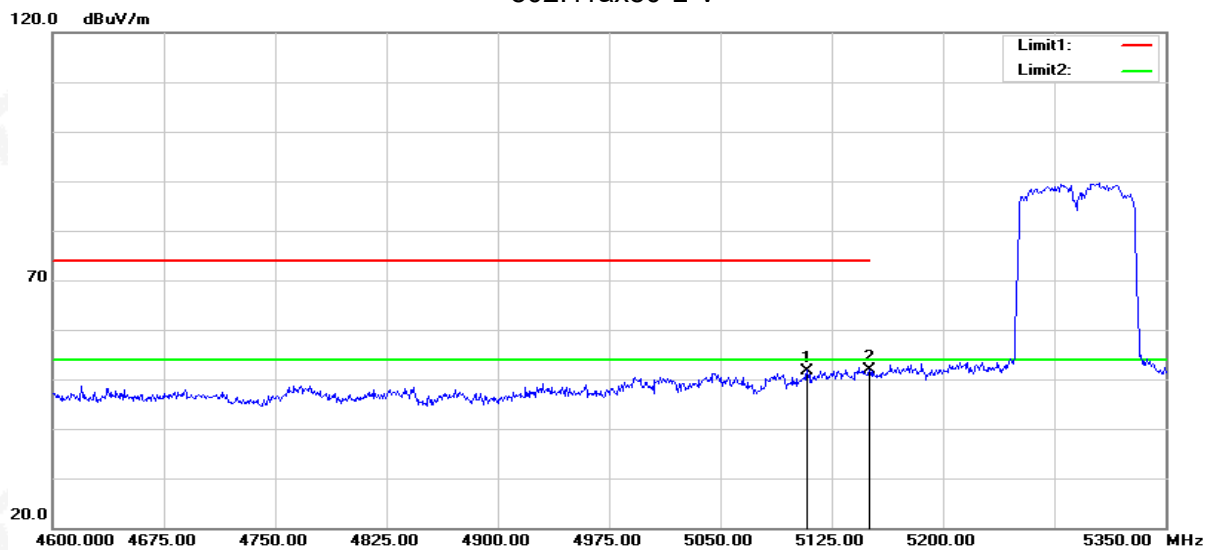
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	17.30	31.88	49.18	54.00	-4.82	peak
2	5356.400	19.86	31.89	51.75	54.00	-2.25	peak

802.11ax80-L-H



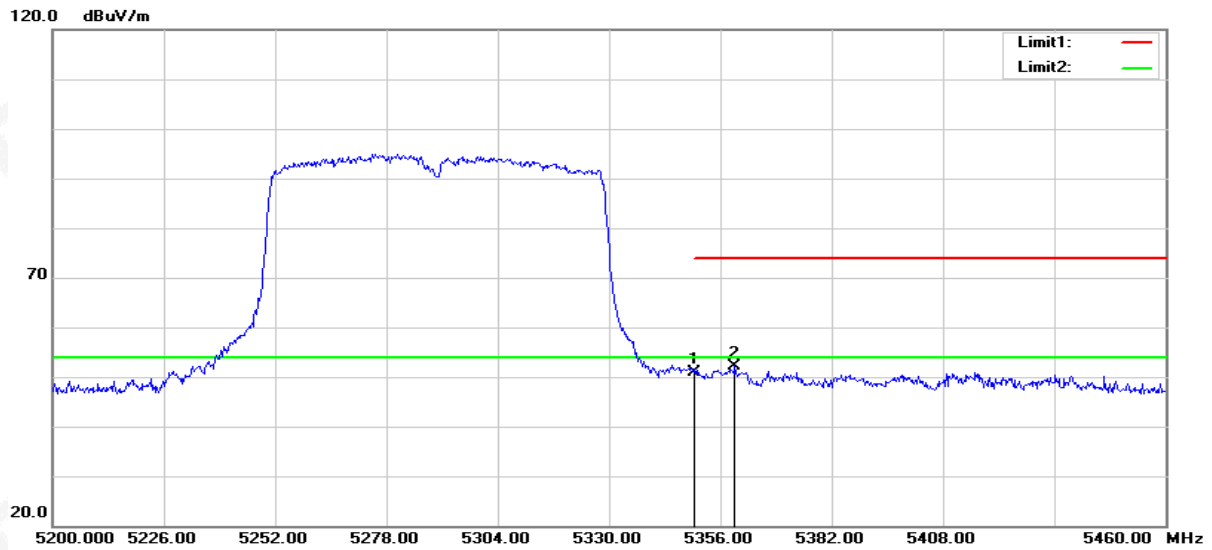
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5105.500	20.53	31.68	52.21	54.00	-1.79	peak
2	5150.000	19.83	31.72	51.55	54.00	-2.45	peak

802.11ax80-L-V



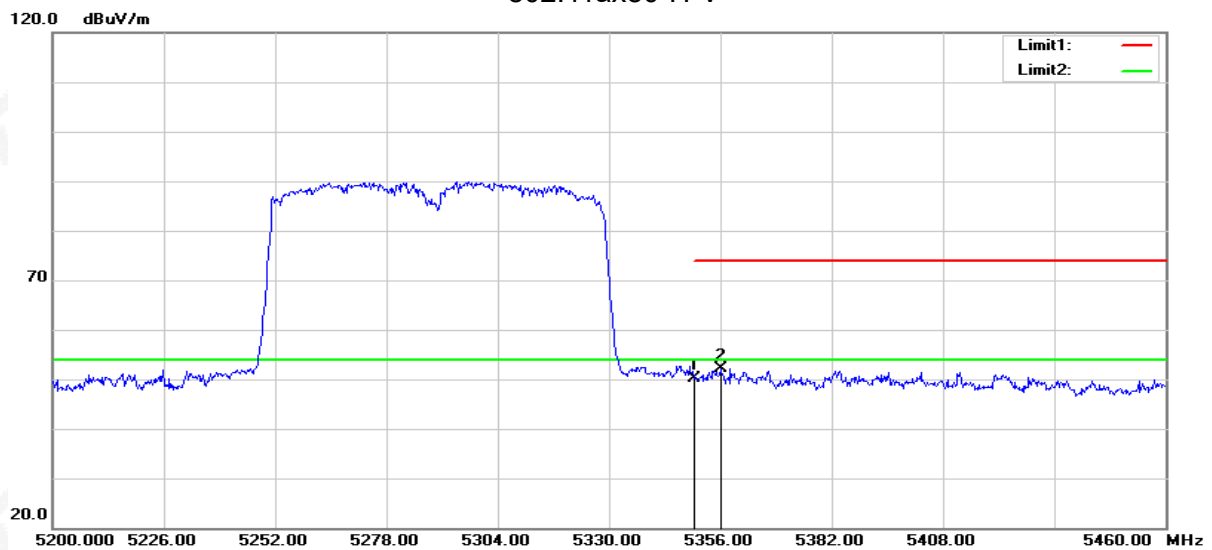
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5108.500	20.06	31.69	51.75	54.00	-2.25	peak
2	5150.000	20.07	31.72	51.79	54.00	-2.21	peak

802.11ax80-H-H



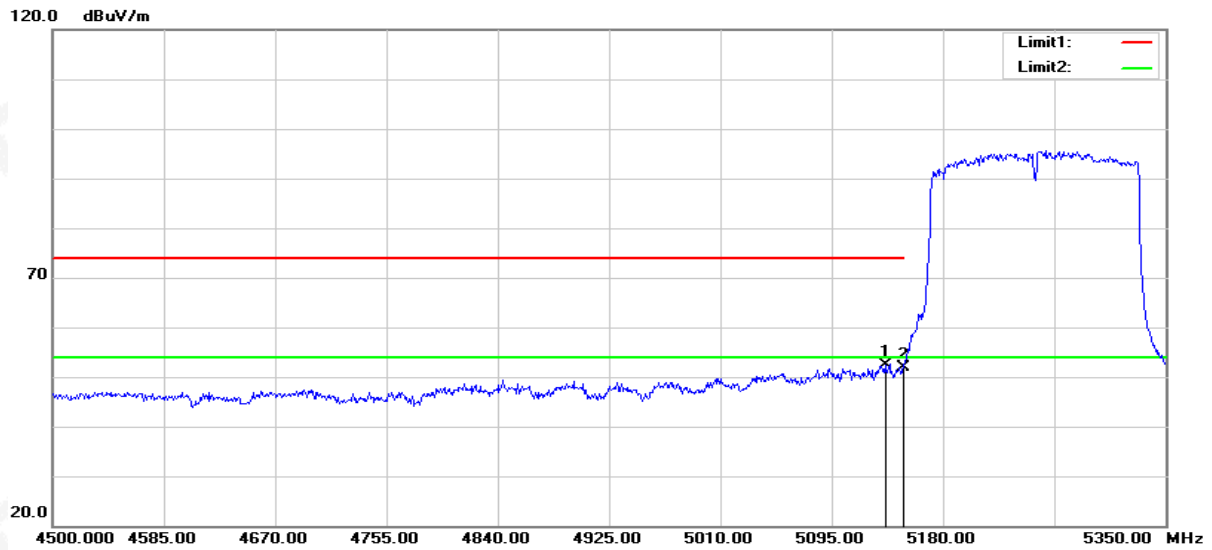
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	19.02	31.88	50.90	54.00	-3.10	peak
2	5359.380	20.22	31.89	52.11	54.00	-1.89	peak

802.11ax80-H-V



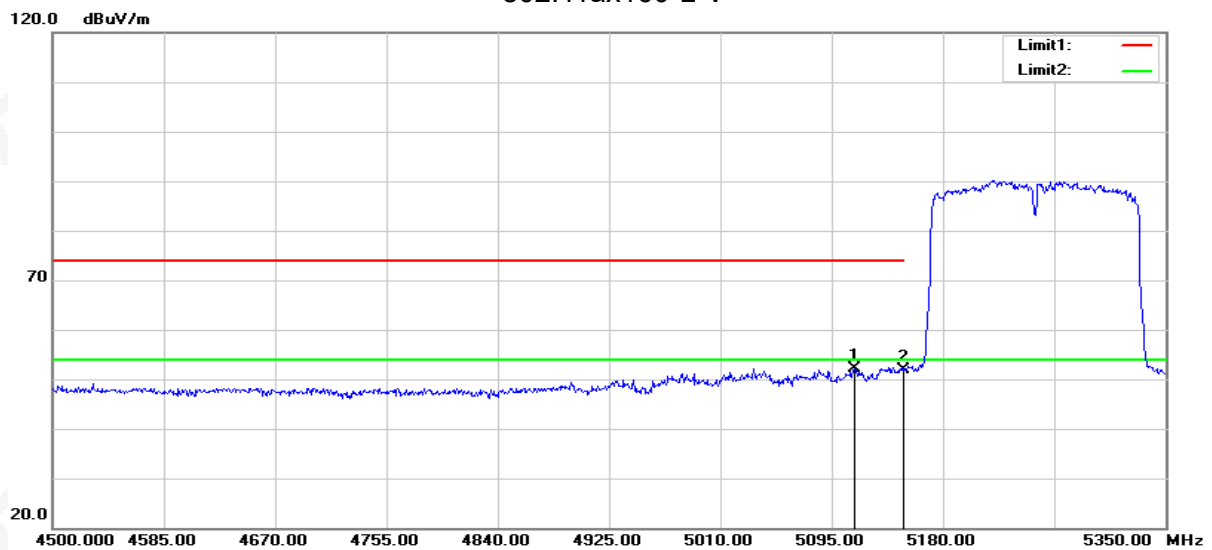
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	18.22	31.88	50.10	54.00	-3.90	peak
2	5356.000	20.35	31.88	52.23	54.00	-1.77	peak

802.11ax160-L-H



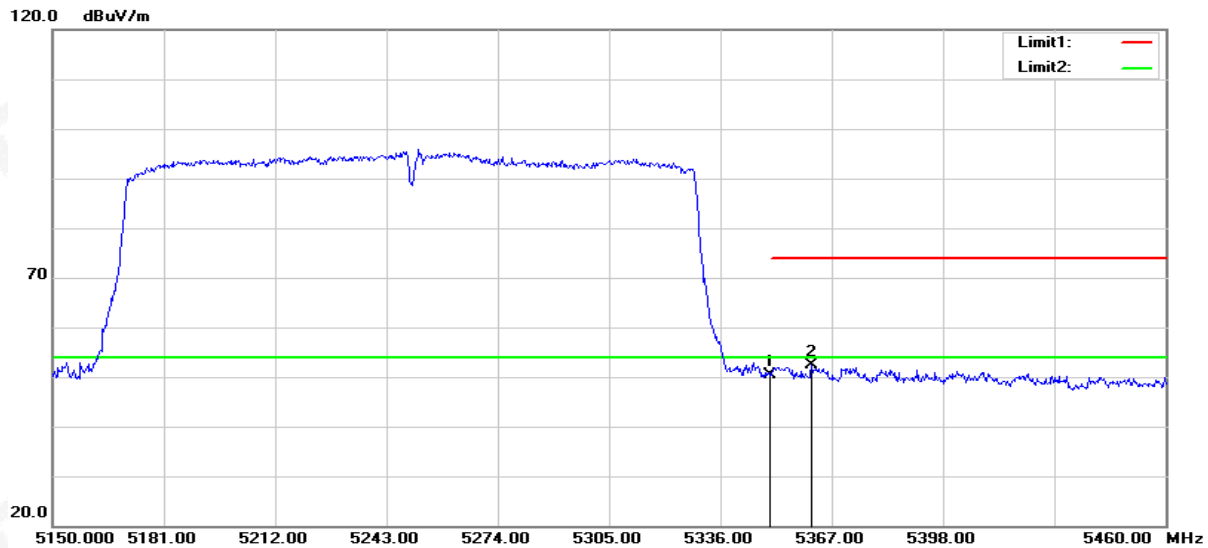
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5135.800	20.75	31.71	52.46	54.00	-1.54	peak
2	5150.000	20.24	31.72	51.96	54.00	-2.04	peak

802.11ax160-L-V



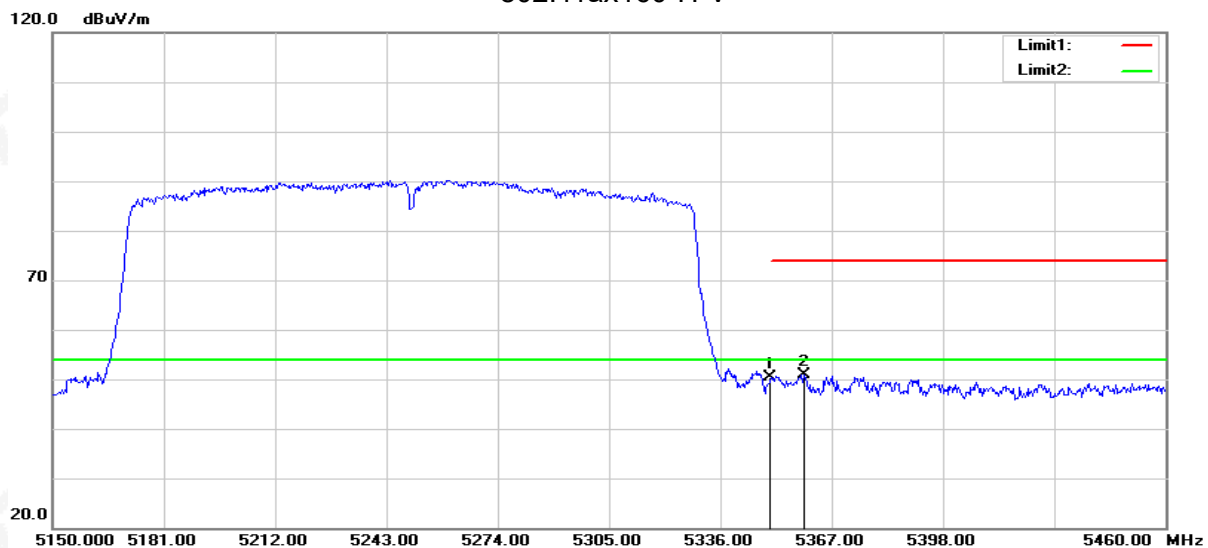
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5112.850	20.46	31.69	52.15	54.00	-1.85	peak
2	5150.000	20.24	31.72	51.96	54.00	-2.04	peak

802.11ax160-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	18.55	31.88	50.43	54.00	-3.57	peak
2	5361.420	20.59	31.89	52.48	54.00	-1.52	peak

802.11ax160-H-V



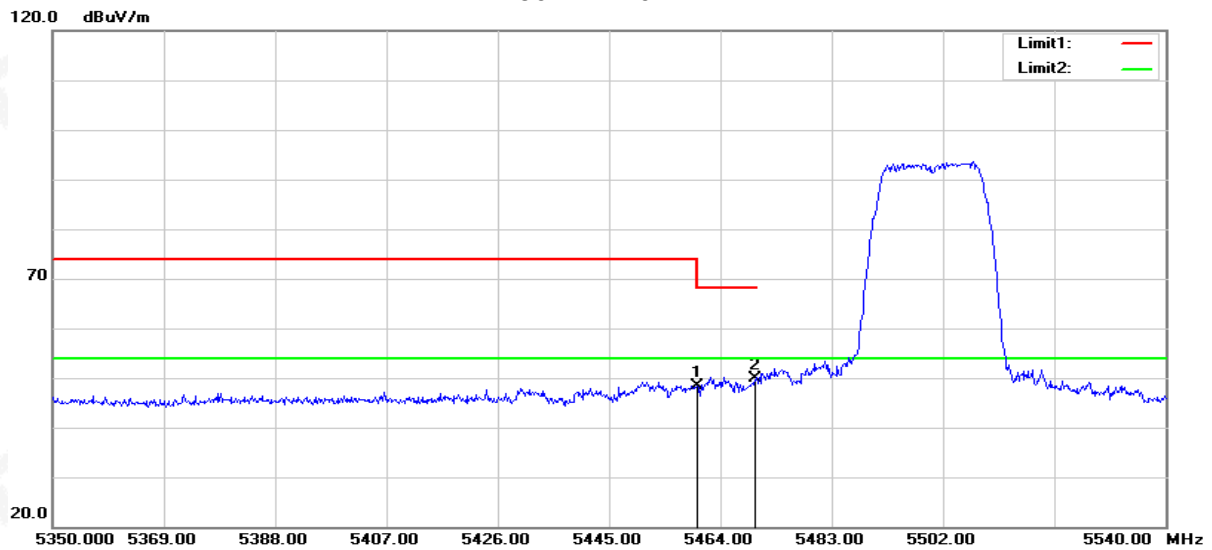
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	18.54	31.88	50.42	54.00	-3.58	peak
2	5359.250	18.94	31.89	50.83	54.00	-3.17	peak

Remark:

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

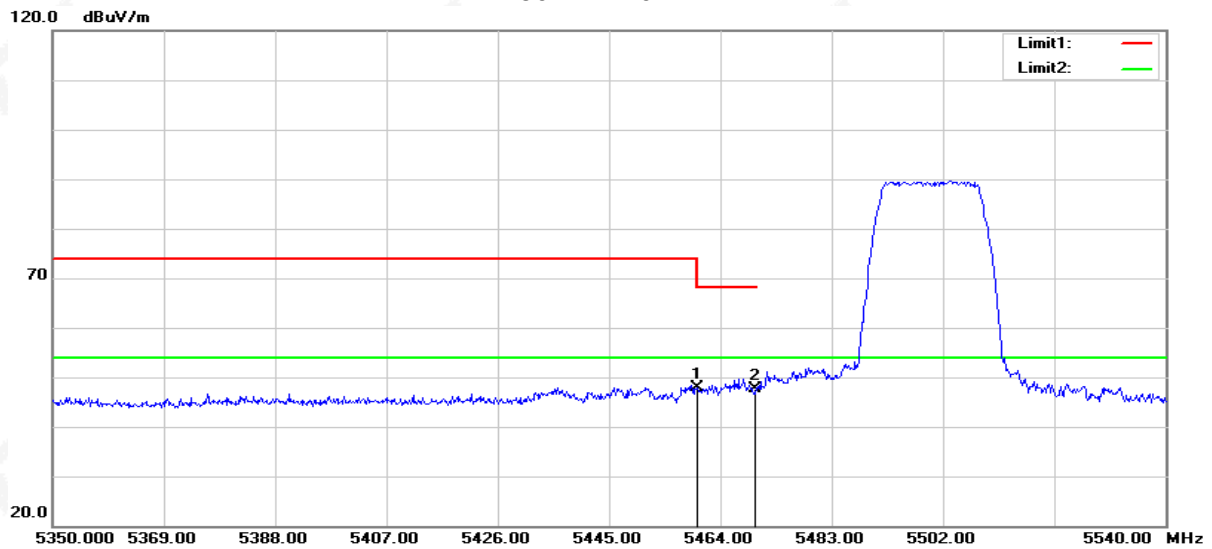
U-NII-2C 5470-5725MHz

802.11n20-L-H



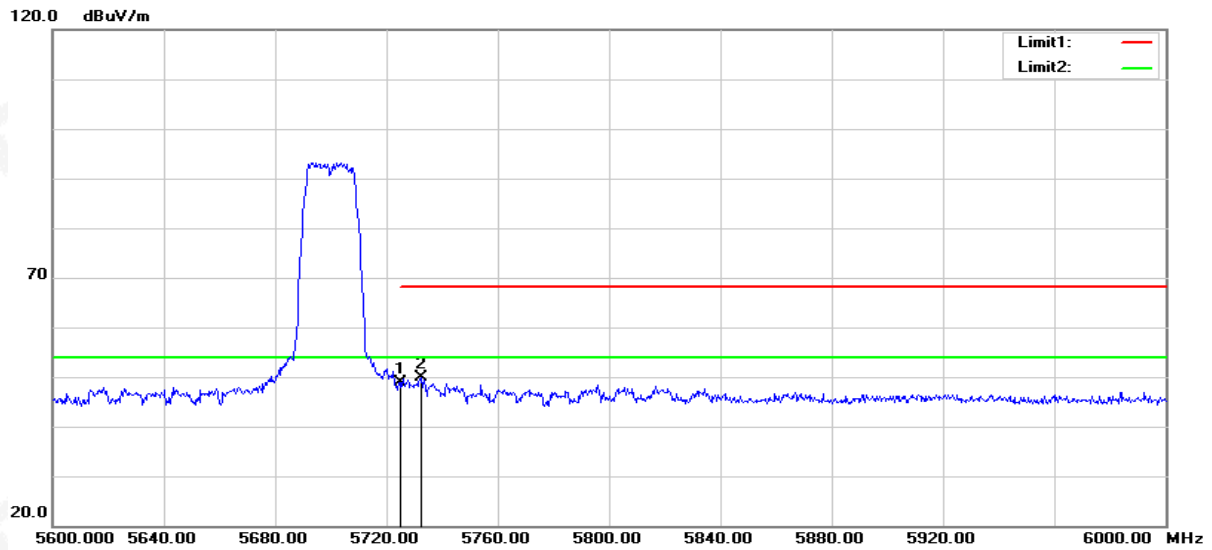
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	53.52	-5.11	48.41	68.20	-19.79	peak
2	5470.000	54.94	-5.09	49.85	68.20	-18.35	peak

802.11n20-L-V



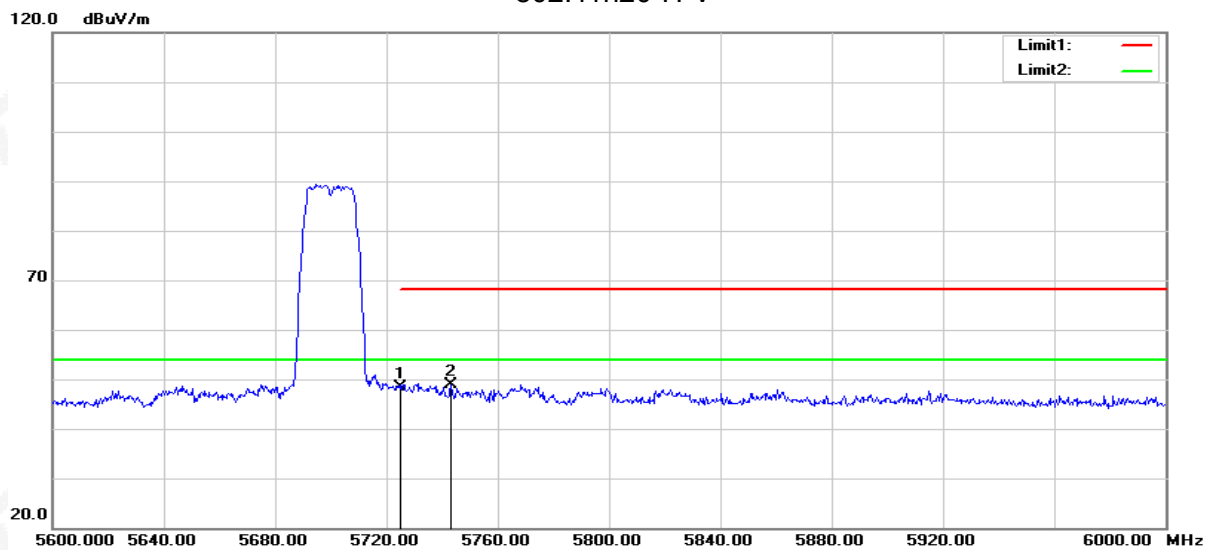
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	53.02	-5.11	47.91	68.20	-20.29	peak
2	5470.000	52.73	-5.09	47.64	68.20	-20.56	peak

802.11n20-H-H



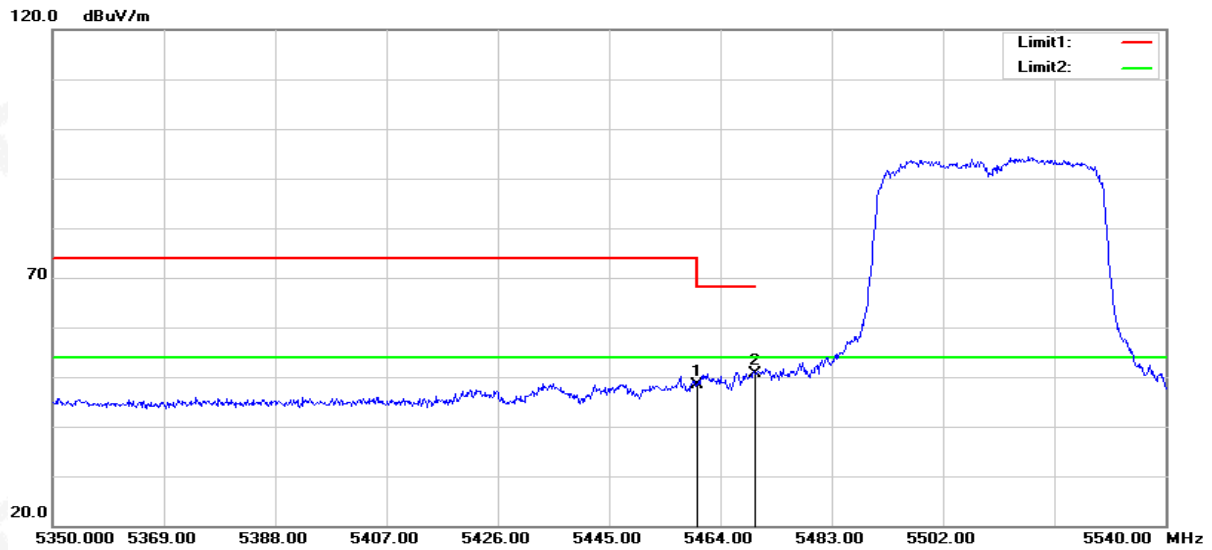
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	53.53	-4.57	48.96	68.20	-19.24	peak
2	5732.400	54.35	-4.55	49.80	68.20	-18.40	peak

802.11n20-H-V



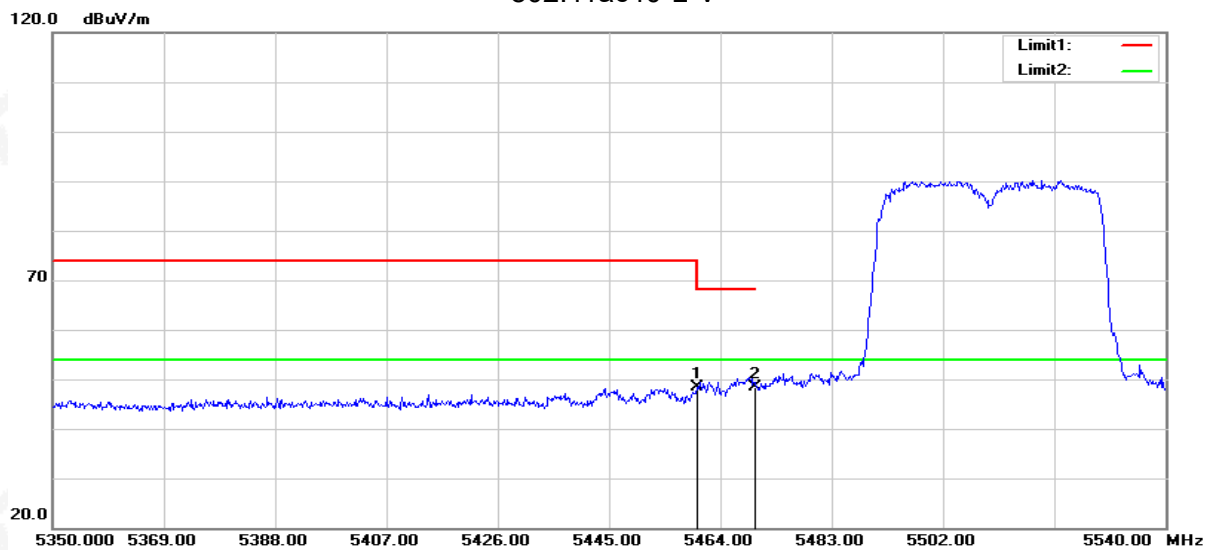
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	53.00	-4.57	48.43	68.20	-19.77	peak
2	5743.200	53.46	-4.51	48.95	68.20	-19.25	peak

802.11ac40-L-H



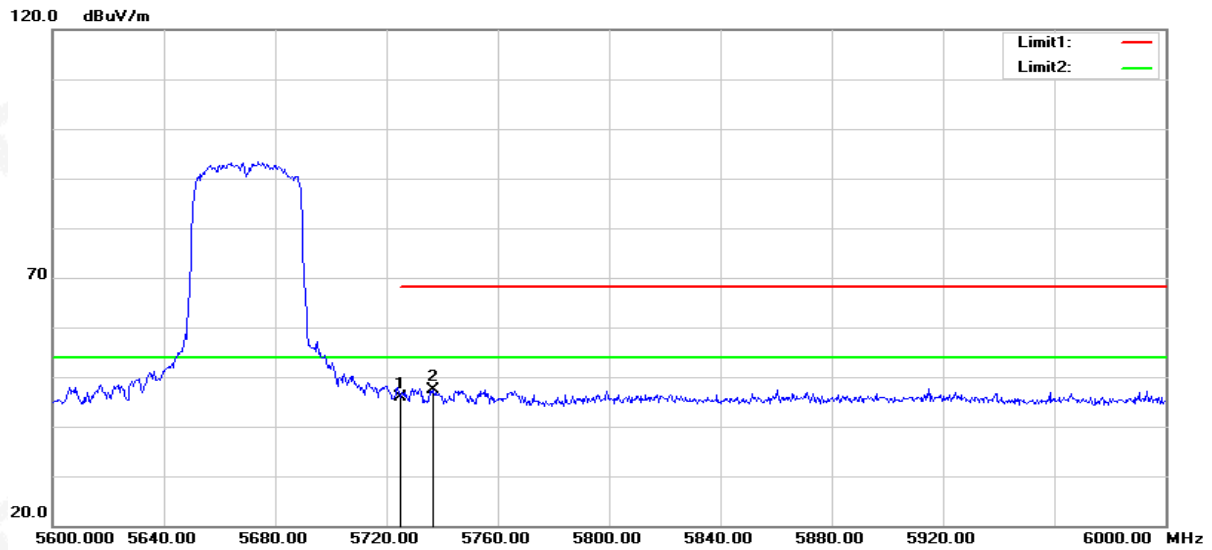
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	53.48	-5.11	48.37	68.20	-19.83	peak
2	5470.000	55.68	-5.09	50.59	68.20	-17.61	peak

802.11ac40-L-V



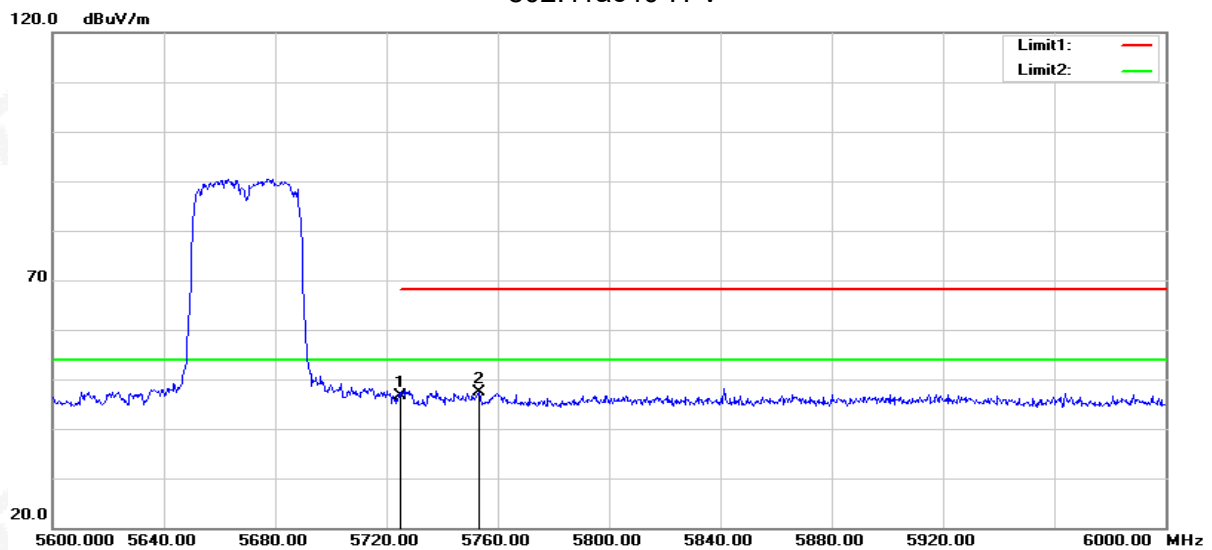
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	53.51	-5.11	48.40	68.20	-19.80	peak
2	5470.000	53.50	-5.09	48.41	68.20	-19.79	peak

802.11ac40-H-H



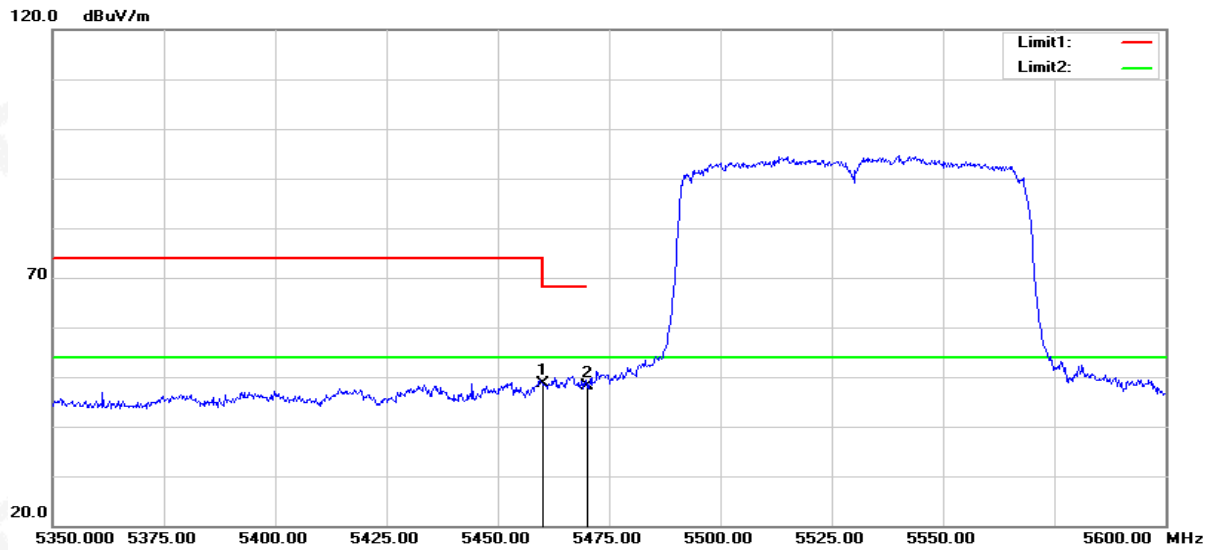
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	50.51	-4.57	45.94	68.20	-22.26	peak
2	5736.800	51.89	-4.53	47.36	68.20	-20.84	peak

802.11ac40-H-V



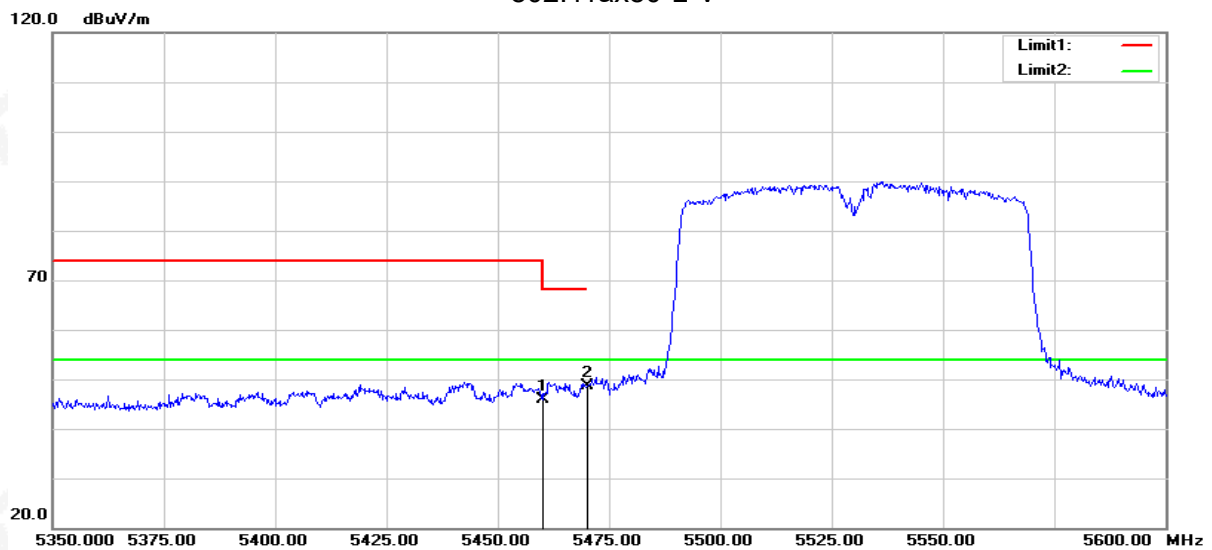
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	51.22	-4.57	46.65	68.20	-21.55	peak
2	5753.200	51.91	-4.47	47.44	68.20	-20.76	peak

802.11ax80-L-H



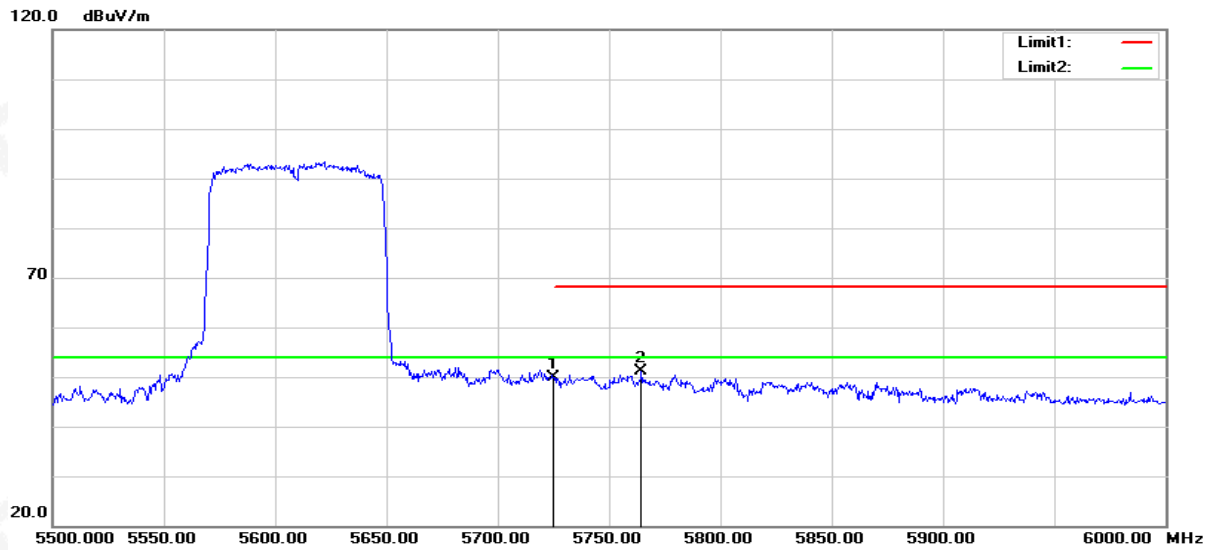
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	53.66	-5.11	48.55	68.20	-19.65	peak
2	5470.000	53.21	-5.09	48.12	68.20	-20.08	peak

802.11ax80-L-V



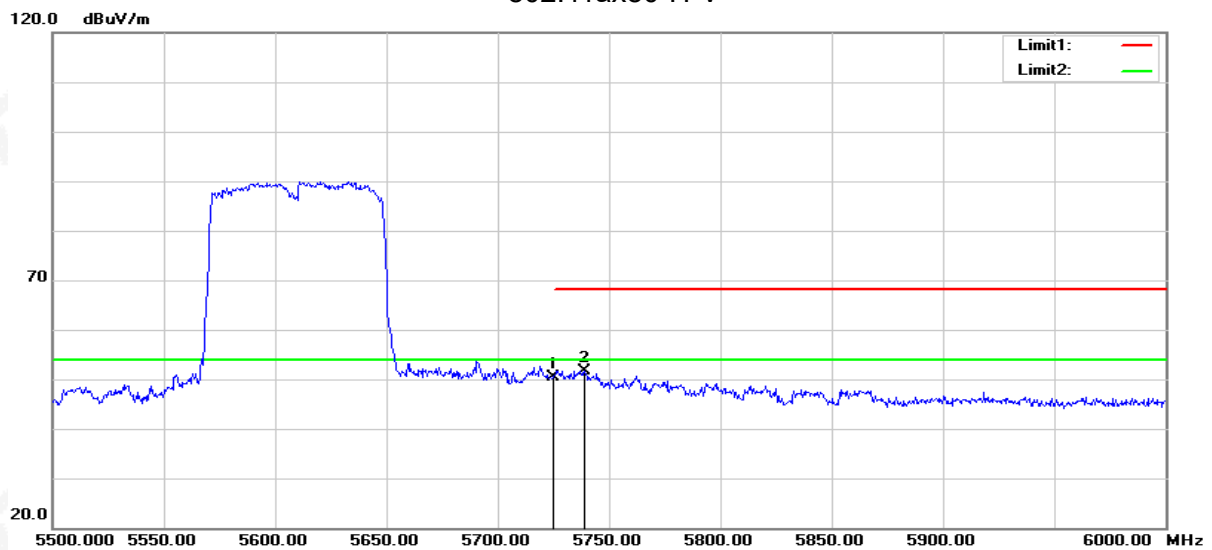
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	50.88	-5.11	45.77	68.20	-22.43	peak
2	5470.000	53.75	-5.09	48.66	68.20	-19.54	peak

802.11ax80-H-H



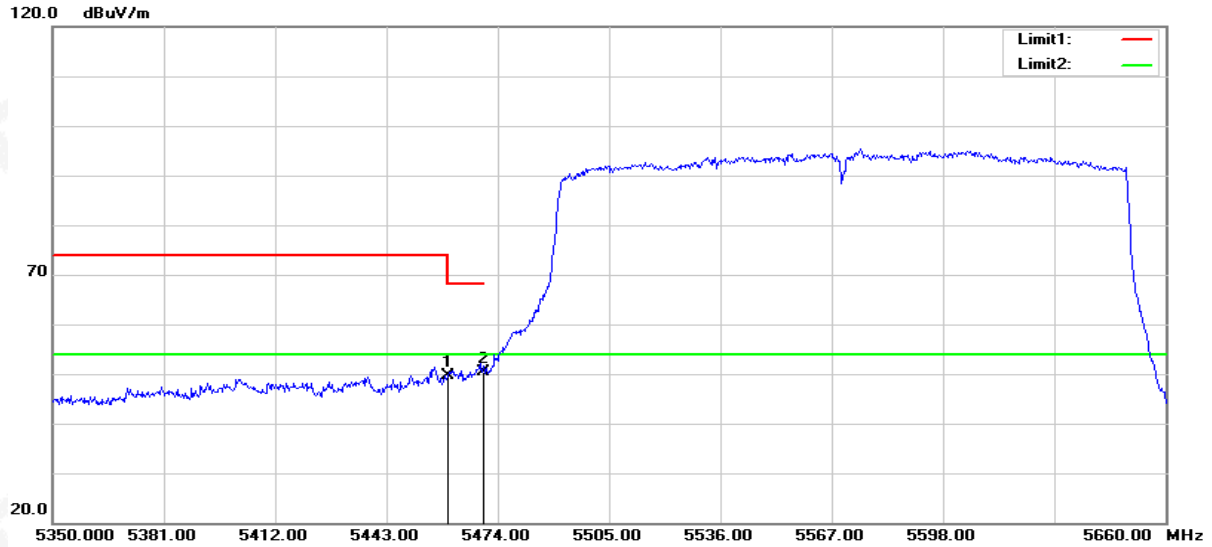
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	54.57	-4.57	50.00	68.20	-18.20	peak
2	5764.500	55.45	-4.44	51.01	68.20	-17.19	peak

802.11ax80-H-V



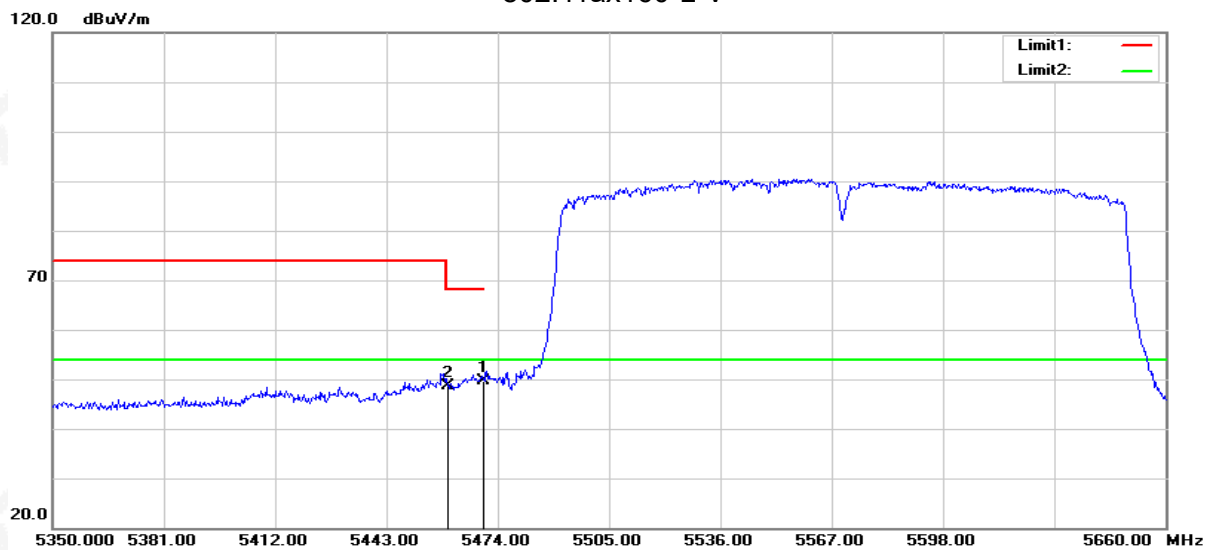
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	54.97	-4.57	50.40	68.20	-17.80	peak
2	5739.000	56.27	-4.53	51.74	68.20	-16.46	peak

802.11ax160-L-H



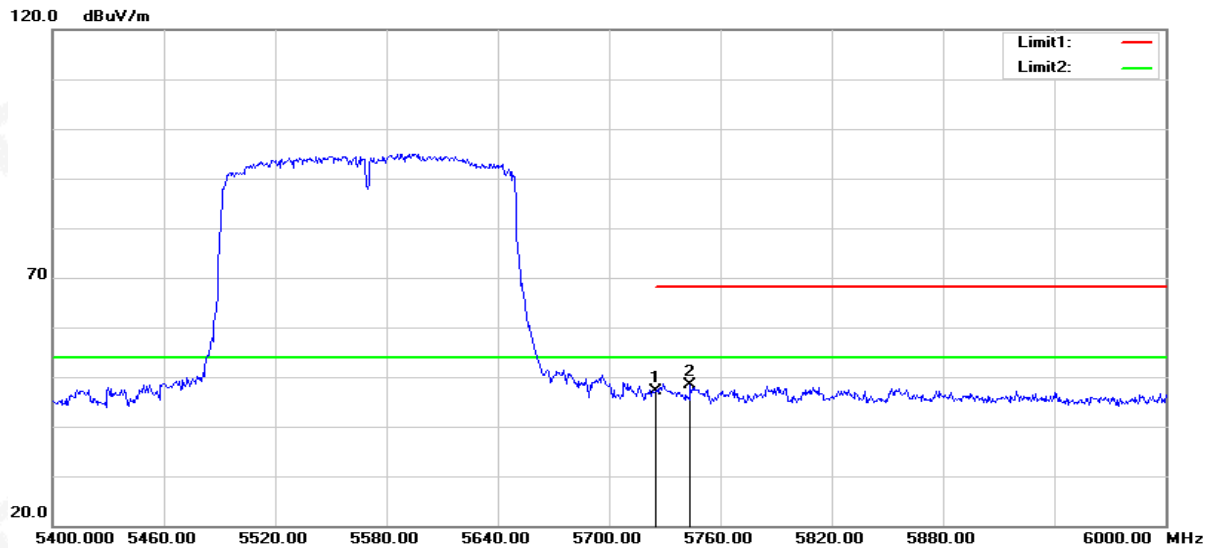
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	54.81	-5.11	49.70	68.20	-18.50	peak
2	5470.000	55.52	-5.09	50.43	68.20	-17.77	peak

802.11ax160-L-V



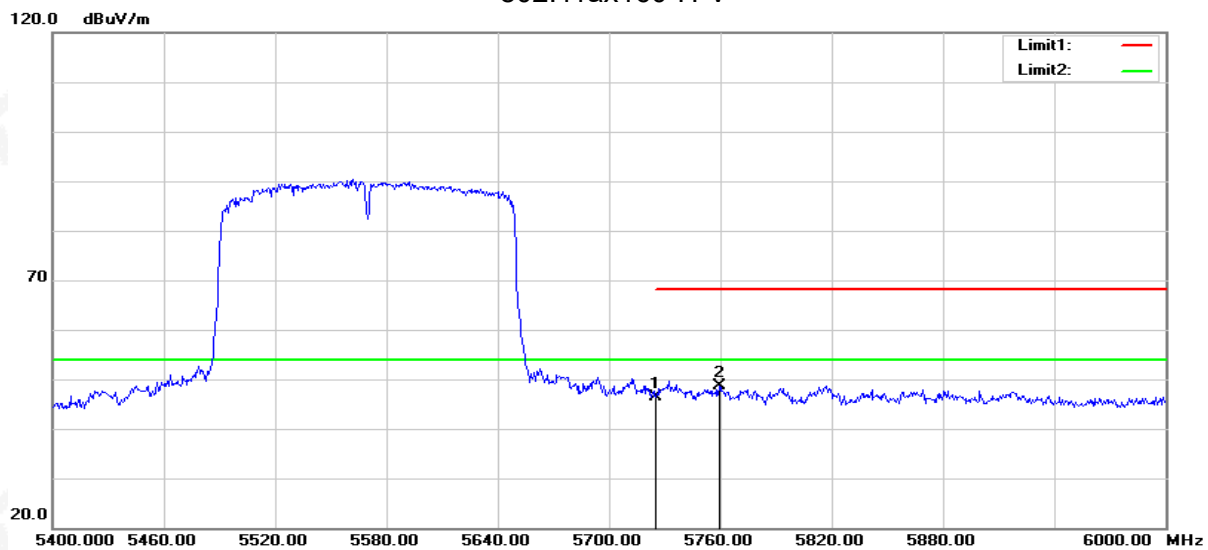
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5470.000	54.67	-5.09	49.58	68.20	-18.62	peak
2	5460.000	53.78	-5.11	48.67	68.20	-19.53	peak

802.11ax160-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	51.77	-4.57	47.20	68.20	-21.00	peak
2	5743.800	52.87	-4.51	48.36	68.20	-19.84	peak

802.11ax160-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	50.95	-4.57	46.38	68.20	-21.82	peak
2	5759.400	53.19	-4.45	48.74	68.20	-19.46	peak

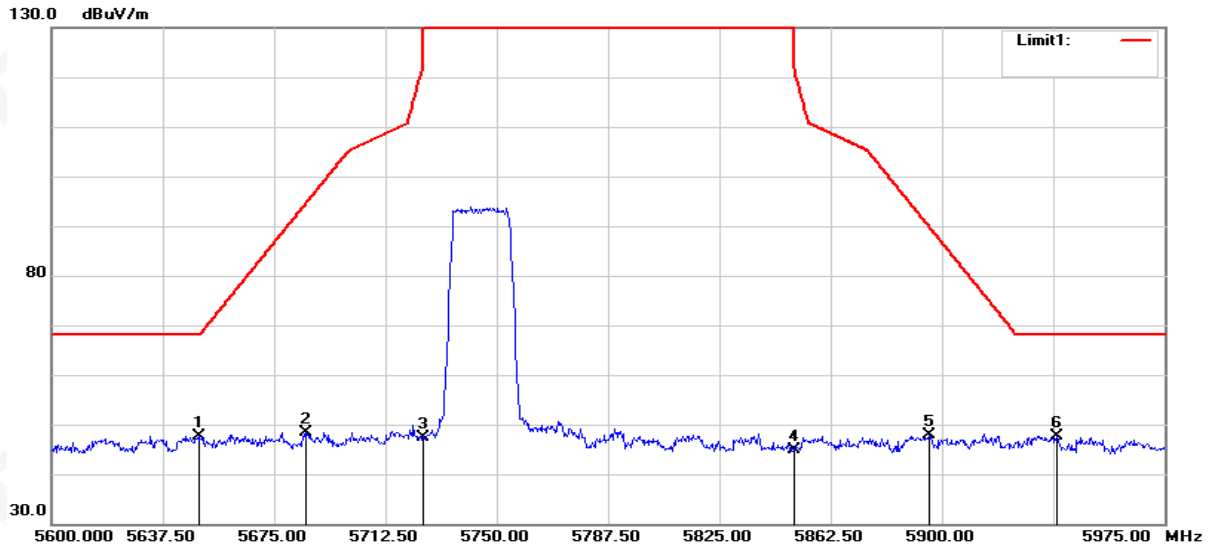
Remark:

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

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

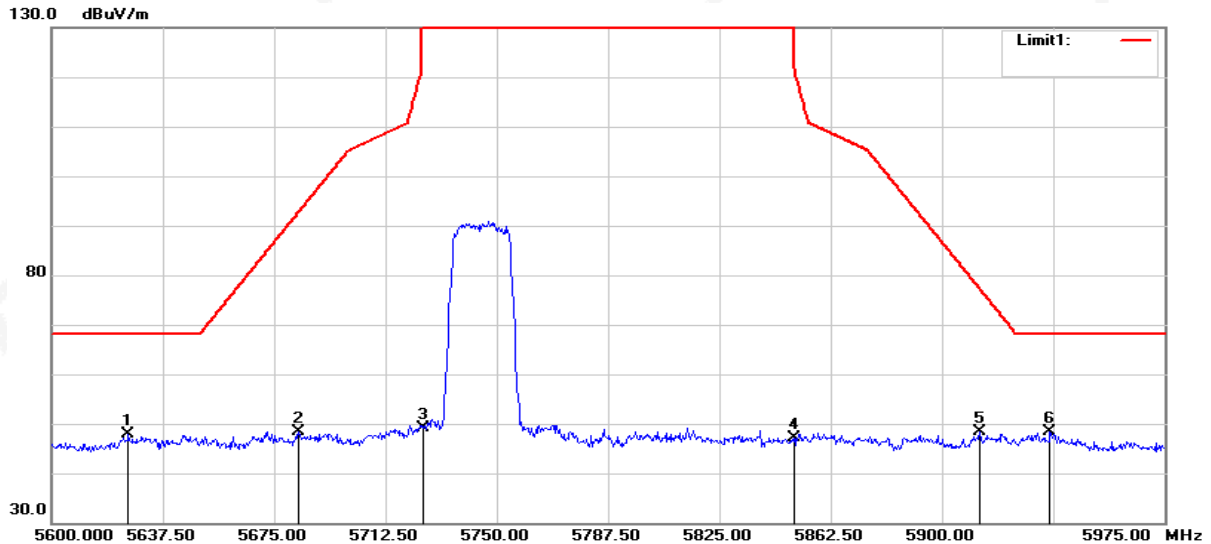
U-NII-3 (5.725-5.850) GHz

802.11n20-L-H



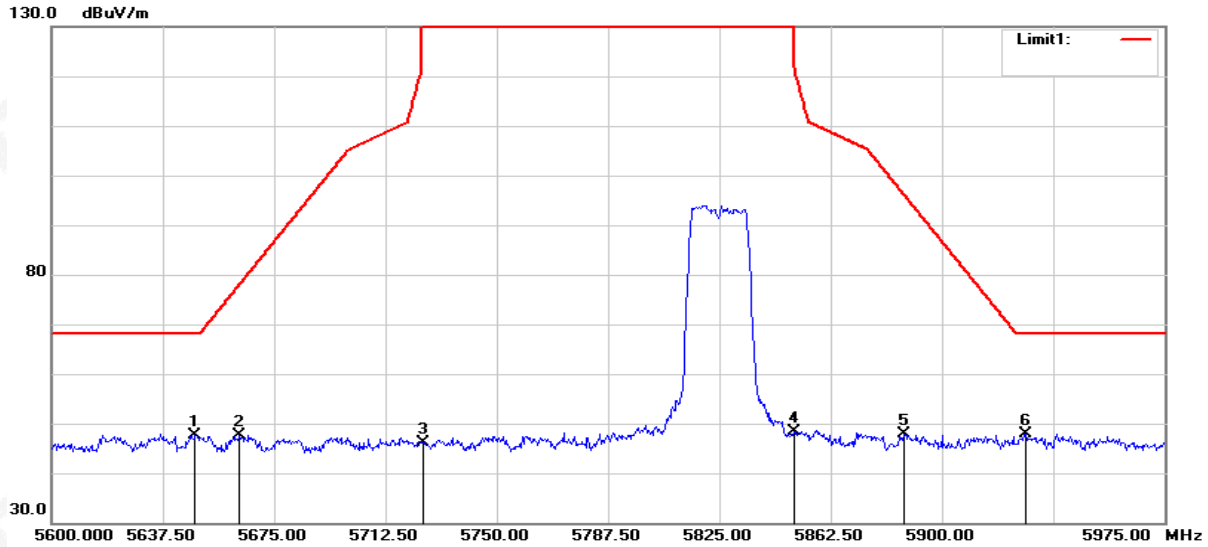
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.500	52.29	-4.68	47.61	68.20	-20.59	peak
2	5685.875	53.16	-4.66	48.50	94.75	-46.25	peak
3	5725.000	52.07	-4.57	47.50	122.20	-74.70	peak
4	5850.000	48.95	-4.10	44.85	122.20	-77.35	peak
5	5895.500	51.82	-3.90	47.92	90.03	-42.11	peak
6	5938.625	51.64	-3.95	47.69	68.20	-20.51	peak

802.11n20-L-V



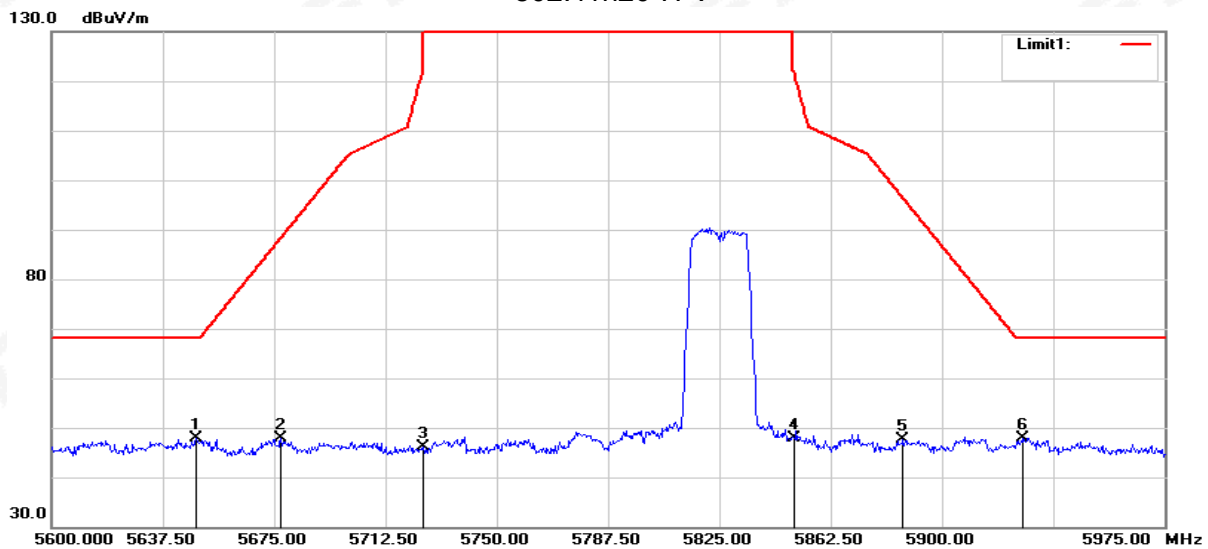
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5625.875	52.68	-4.69	47.99	68.20	-20.21	peak
2	5683.250	52.97	-4.67	48.30	92.81	-44.51	peak
3	5725.000	53.72	-4.57	49.15	122.20	-73.05	peak
4	5850.000	51.28	-4.10	47.18	122.20	-75.02	peak
5	5912.750	52.31	-3.90	48.41	77.27	-28.86	peak
6	5936.375	52.38	-3.94	48.44	68.20	-19.76	peak

802.11n20-H-H



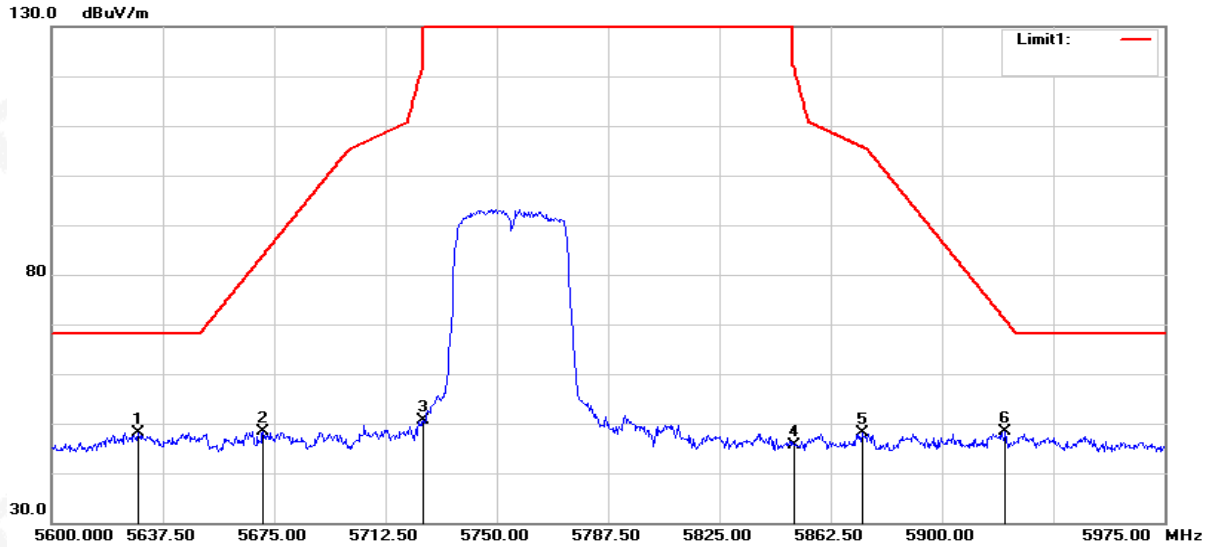
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.375	52.37	-4.68	47.69	68.20	-20.51	peak
2	5663.375	52.36	-4.68	47.68	78.10	-30.42	peak
3	5725.000	50.59	-4.57	46.02	122.20	-76.18	peak
4	5850.000	52.57	-4.10	48.47	122.20	-73.73	peak
5	5887.250	51.80	-3.94	47.86	96.14	-48.28	peak
6	5928.125	51.83	-3.93	47.90	68.20	-20.30	peak

802.11n20-H-V



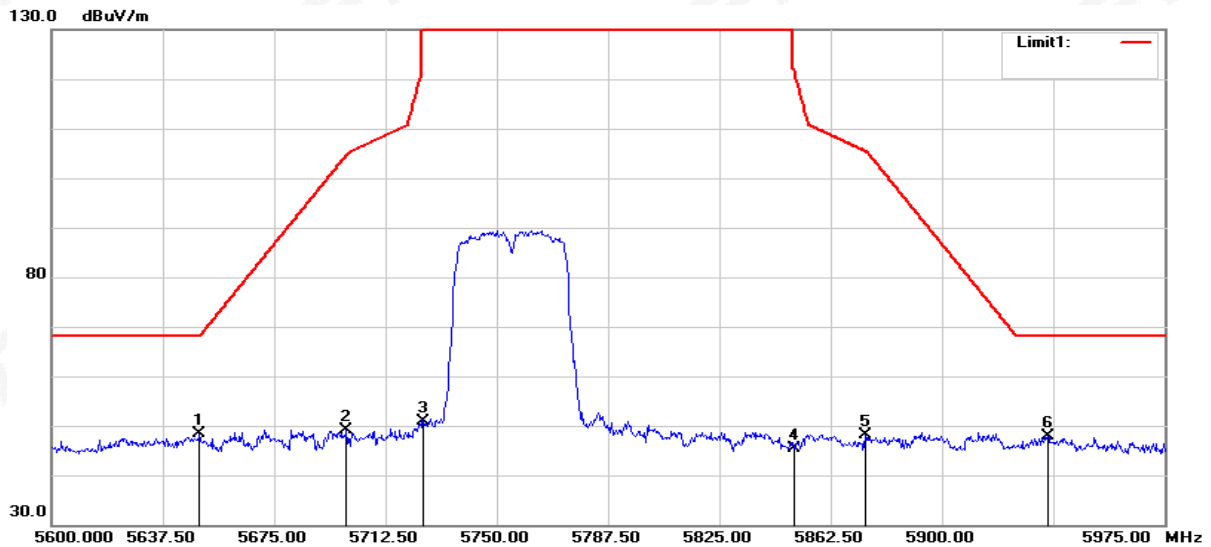
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.750	52.64	-4.68	47.96	68.20	-20.24	peak
2	5677.250	52.66	-4.67	47.99	88.37	-40.38	peak
3	5725.000	50.59	-4.57	46.02	122.20	-76.18	peak
4	5850.000	52.08	-4.10	47.98	122.20	-74.22	peak
5	5886.875	51.68	-3.94	47.74	96.41	-48.67	peak
6	5927.375	51.91	-3.93	47.98	68.20	-20.22	peak

802.11ac40-L-H



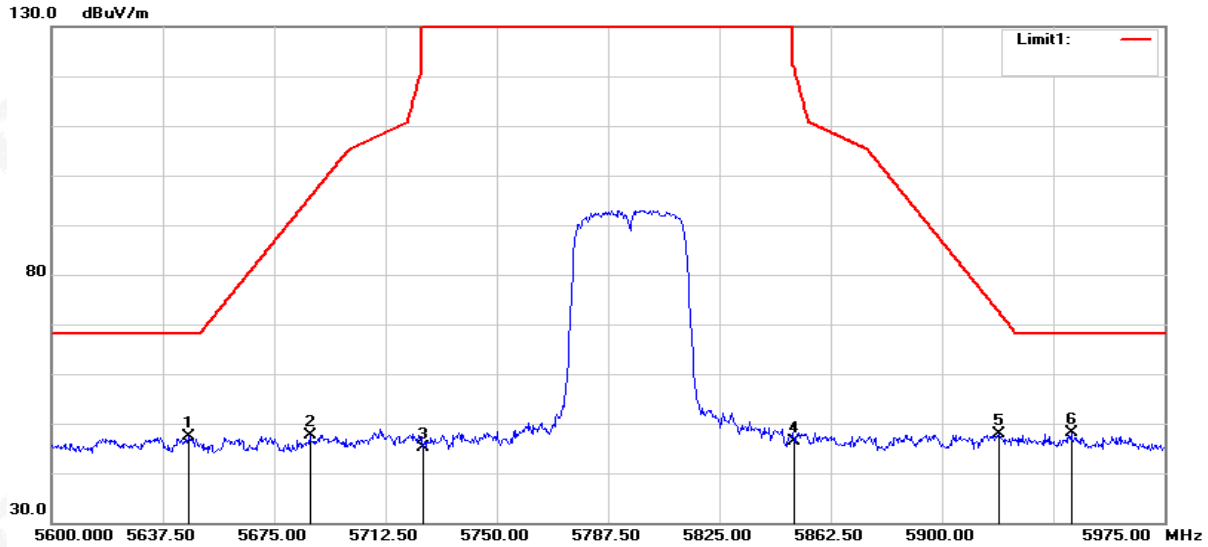
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5629.250	52.82	-4.69	48.13	68.20	-20.07	peak
2	5671.250	53.16	-4.68	48.48	83.92	-35.44	peak
3	5725.000	55.28	-4.57	50.71	122.20	-71.49	peak
4	5850.000	49.73	-4.10	45.63	122.20	-76.57	peak
5	5873.000	52.06	-4.00	48.06	105.76	-57.70	peak
6	5921.375	52.41	-3.92	48.49	70.88	-22.39	peak

802.11ac40-L-V



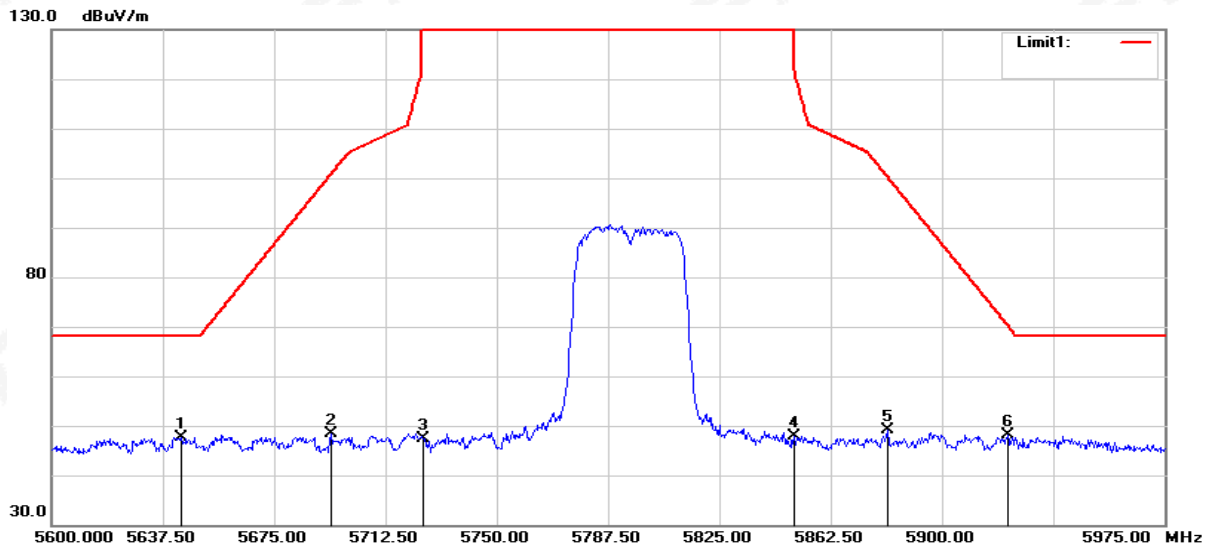
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.875	52.97	-4.68	48.29	68.20	-19.91	peak
2	5699.375	53.80	-4.66	49.14	104.74	-55.60	peak
3	5725.000	55.33	-4.57	50.76	122.20	-71.44	peak
4	5850.000	49.46	-4.10	45.36	122.20	-76.84	peak
5	5874.125	52.05	-3.99	48.06	105.45	-57.39	peak
6	5935.625	51.84	-3.94	47.90	68.20	-20.30	peak

802.11ac40-H-H



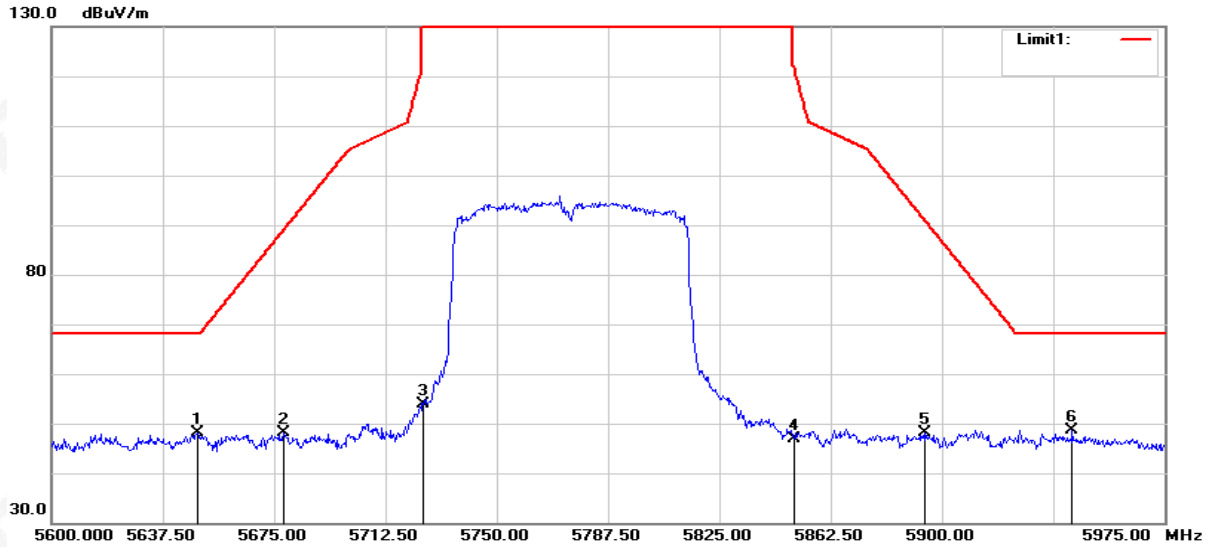
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5646.125	52.00	-4.69	47.31	68.20	-20.89	peak
2	5687.000	52.36	-4.66	47.70	95.58	-47.88	peak
3	5725.000	49.58	-4.57	45.01	122.20	-77.19	peak
4	5850.000	50.37	-4.10	46.27	122.20	-75.93	peak
5	5919.125	51.76	-3.91	47.85	72.55	-24.70	peak
6	5943.500	52.07	-3.95	48.12	68.20	-20.08	peak

802.11ac40-H-V



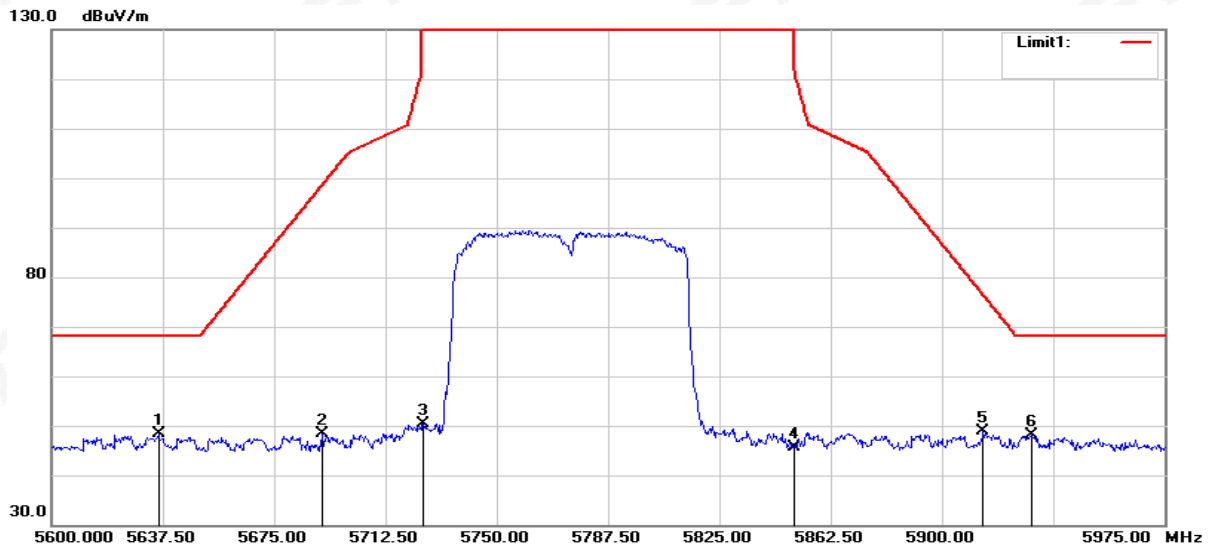
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5643.500	52.38	-4.68	47.70	68.20	-20.50	peak
2	5694.125	53.00	-4.66	48.34	100.85	-52.51	peak
3	5725.000	51.98	-4.57	47.41	122.20	-74.79	peak
4	5850.000	51.93	-4.10	47.83	122.20	-74.37	peak
5	5881.625	53.06	-3.96	49.10	100.30	-51.20	peak
6	5922.125	51.98	-3.91	48.07	70.33	-22.26	peak

802.11ax80-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.125	52.83	-4.68	48.15	68.20	-20.05	peak
2	5678.375	52.74	-4.66	48.08	89.20	-41.12	peak
3	5725.000	58.57	-4.57	54.00	122.20	-68.20	peak
4	5850.000	50.88	-4.10	46.78	122.20	-75.42	peak
5	5894.375	52.03	-3.91	48.12	90.86	-42.74	peak
6	5943.875	52.58	-3.95	48.63	68.20	-19.57	peak

802.11ax80-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5636.000	53.14	-4.68	48.46	68.20	-19.74	peak
2	5691.125	52.94	-4.66	48.28	98.63	-50.35	peak
3	5725.000	54.84	-4.57	50.27	122.20	-71.93	peak
4	5850.000	49.75	-4.10	45.65	122.20	-76.55	peak
5	5913.875	52.69	-3.91	48.78	76.43	-27.65	peak
6	5930.375	52.12	-3.93	48.19	68.20	-20.01	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 $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.
 - f) Please refer to ANSI C63.10-2020 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 $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

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

4.6 TEST RESULTS

Note: The test data please reference to attachment "STS2601009W11_Appendix 5G WIFI".

For U-NII 3:

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

5. DUTY CYCLE

5.1 TEST STANDARD

Please refer to ANSI C63.10-2020 Section 12.2

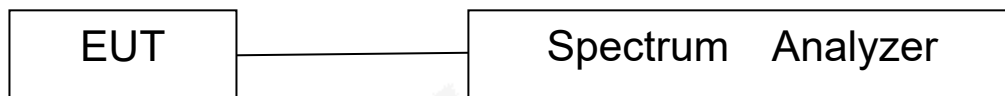
5.2 TEST PROCEDURE

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 “STS2601009W11_Appendix 5G WIFI”.

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

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 "STS2601009W11_Appendix 5G WIFI".

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 "STS2601009W11_Appendix 5G WIFI".

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 "STS2601009W11_Appendix 5G WIFI".

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	
		1 watt	5725-5895	
15.407(a) (3)				

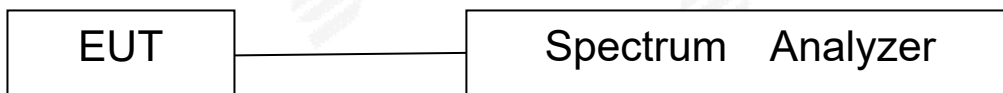
7.2 TEST PROCEDURE

Please refer to ANSI C63.10-2020 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 "STS2601009W11_Appendix 5G WIFI".

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 Dipole Antenna. It comply with the standard requirement.



APPENDIX - PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

*****END OF THE REPORT*****