



Radio Test Report

Report No.: STS2509098W05

Issued for

Sapphire Technology PTE. LTD

1 Raffles Place, Tower 2, Level #19-61, Singapore 048616

Product Name: SAPPHIRE EDGE AI Mini PC

Brand Name: N/A

Model Name: SAPPHIRE EDGE AI 370 Mini PC

Series Model(s): SAPPHIRE EDGE AI 350 Mini PC,
SAPPHIRE EDGE AI 340 Mini PC

FCC ID: 2BST8-EAIRZ616

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: Sapphire Technology PTE. LTD
Address: 1 Raffles Place, Tower 2, Level #19-61, Singapore 048616
Manufacturer's Name: Sapphire Technology PTE. LTD
Address: 1 Raffles Place, Tower 2, Level #19-61, Singapore 048616

Product Description

Product Name: SAPPHIRE EDGE AI Mini PC
Brand Name: N/A
Model Name: SAPPHIRE EDGE AI 370 Mini PC
Series Model(s): SAPPHIRE EDGE AI 350 Mini PC,
SAPPHIRE EDGE AI 340 Mini PC

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: 15 Sept. 2025
Date (s) of performance of tests: 15 Sept. 2025~18 Oct. 2025
Date of Issue: 18 Oct. 2025
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	18 Oct. 2025	STS2509098W05	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.

KDB 98794 D02 U-NII 6GHz EMC Measurement v02r01.

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a)	26dB & 99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power And Maximum EIRP	PASS
15.407(b)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(b)	In-Band Emission(Mask)	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.407(d)	Contention Based Protocol	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	SAPPHIRE EDGE AI Mini PC	
Brand Name	N/A	
Model Name	SAPPHIRE EDGE AI 370 Mini PC	
Series Model(s)	SAPPHIRE EDGE AI 350 Mini PC, SAPPHIRE EDGE AI 340 Mini PC	
Model Difference	The only difference is the model name.	
Product Description	The EUT is a SAPPHIRE EDGE AI Mini PC	
	Radio Technology	IEEE 802.11a/n(HT20)/ac(VHT20) /ax(HE20) IEEE 802.11n(HT40)/ac(VHT40)/ax(HE40) IEEE 802.11ac(VHT80)/ax(HE80) IEEE 802.11ac(VHT160)/ax(HE160)
	Operation Frequency:	UNII-5 Band: 5925-6425MHz UNII-6 Band: 6425-6525MHz UNII-7 Band: 6525-6875MHz UNII-8 Band: 6875-7125MHz
	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 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM
	Antenna Type:	Built-in
	Antenna Gain (dBi):	ANT 1: -3.41 ANT 2: -3.49 MIMO: -0.44
	Max.Output Power(Conducted):	12.21dBm
	More details of EUT technical specification, please refer to the User Manual.	
Product Type	☒ Indoor Client(6XD) ☐ Dual Client(6CD) ☐ Very Low Power(6VL)	
Test Channel	Please refer to the Note 3.	
Power Rating	Input: DC 20V 6A Output: Type-C: 5V 1.5A USB2.0: 5V 0.5A USB3.0: 5V 1A	
Adapter	Model: PA-1121-76E Brand: LITEON Input: 100-240V~50/60Hz 1.9A Output: 20V 6A 120W	
Battery	N/A	
Hardware version number	V12	
Software version number	V2.10	
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

802.11a /ax (20MHz)							
UNII-5		UNII-6		UNII-7		UNII-8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5955	97	6435	117	6535	189	6895
5	5975	101	6455	121	6555	193	6915
9	5995	105	6475	125	6575	197	6935
13	6015	109	6495	129	6595	201	6955
17	6035	113	6515	133	6615	205	6975
21	6055	-	-	137	6635	209	6995
25	6075	-	-	141	6655	213	7015
29	6095	-	-	145	6675	217	7035
33	6115	-	-	149	6695	221	7055
37	6135	-	-	153	6715	225	7075
41	6155	-	-	157	6735	229	7095
45	6175	-	-	161	6755	233	7115
49	6195	-	-	165	6775	-	-
53	6215	-	-	169	6795	-	-
57	6235	-	-	173	6815	-	-
61	6255	-	-	177	6835	-	-
65	6275	-	-	181	6855	-	-
69	6295	-	-	185	6875	-	-
73	6315	-	-	-	-	-	-
77	6335	-	-	-	-	-	-
81	6355	-	-	-	-	-	-
85	6375	-	-	-	-	-	-
89	6395	-	-	-	-	-	-
93	6415	-	-	-	-	-	-

802.11ax (40MHz)							
UNII-5		UNII-6		UNII-7		UNII-8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	5965	99	6445	115	6525	187	6885
11	6005	107	6485	123	6565	195	6925
19	6045	-	-	131	6605	203	6965
27	6085	-	-	139	6645	211	7005
35	6125	-	-	147	6685	219	7045
43	6165	-	-	155	6725	227	7085
51	6205	-	-	163	6765	-	-
59	6245	-	-	171	6805	-	-
67	6285	-	-	179	6845	-	-
75	6325	-	-	-	-	-	-
83	6365	-	-	-	-	-	-
91	6405	-	-	-	-	-	-

802.11ax (80MHz)							
UNII-5		UNII-6		UNII-7		UNII-8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
7	5985	103	6465	119	6545	199	6945
23	6065	-	-	135	6625	215	7025



39	6145	-	-	151	6705	-	-
55	6225	-	-	167	6785	-	-
71	6305	-	-	183	6865	-	-
87	6385	-	-	-	-	-	-

802.11ax (160MHz)							
UNII-5		UNII-6		UNII-7		UNII-8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
15	6025	111	6505	143	6665	207	6985
47	6185	-	-	175	6825	-	-
79	6345	-	-	-	-	-	-

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:

4. 6GHz: Test Frequency Channel

802.11a/n/ac/ax (20MHz)							
UNII-5		UNII-6		UNII-7		UNII-8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5955	97	6435	117	6535	189	6895
45	6175	105	6475	149	6695	209	6995
93	6415	113	6515	181	6855	233	7115

802.11n/ac/ax (40MHz)							
UNII-5		UNII-6		UNII-7		UNII-8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	5965	99	6445	123	6565	195	6925
43	6165	107	6485	147	6685	211	7005
91	6405	-	-	179	6845	227	7085

802.11ac/ax (80MHz)							
UNII-5		UNII-6		UNII-7		UNII-8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
7	5985	103	6465	135	6625	199	6945
39	6145	-	-	151	6705	215	7025
87	6385	-	-	183	6785	-	-

802.11ac/ax (160MHz)							
UNII-5		UNII-6		UNII-7		UNII-8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
15	6025	111	6505	143	6665	207	6985
47	6185	-	-	-	-	-	-
79	6345	-	-	-	-	-	-

5. 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 G1,



$G_2, \dots, G_N$ 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 CH1&CH45&CH93	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH97&CH105&CH113	6 Mbps
Mode 3	TX IEEE 802.11a HT20 CH117&CH149&CH181	6 Mbps
Mode 4	TX IEEE 802.11a HT20 CH189&CH209&CH233	6 Mbps
Mode 5	TX IEEE 802.11ax HE20 CH1&CH45&CH93	NSS1 MCS0
Mode 6	TX IEEE 802.11ax HE20 CH97&CH105&CH113	NSS1 MCS0
Mode 7	TX IEEE 802.11ax HE20 CH117&CH149&CH181	NSS1 MCS0
Mode 8	TX IEEE 802.11ax HE20 CH189&CH209&CH233	NSS1 MCS0
Mode 9	TX IEEE 802.11ax HE40 CH3&CH43&CH91	NSS1 MCS0
Mode 10	TX IEEE 802.11ax HE40 CH99&CH107	NSS1 MCS0
Mode 11	TX IEEE 802.11ax HE40 CH123&CH147&CH179	NSS1 MCS0
Mode 12	TX IEEE 802.11ax HE40 CH195&CH211&CH227	NSS1 MCS0
Mode 13	TX IEEE 802.11ax HE80 CH7&CH39&CH87	NSS1 MCS0
Mode 14	TX IEEE 802.11ax HE80 CH103	NSS1 MCS0
Mode 15	TX IEEE 802.11ax HE80 CH135&CH151&CH183	NSS1 MCS0
Mode 16	TX IEEE 802.11ax HE80 CH199&CH215	NSS1 MCS0
Mode 17	TX IEEE 802.11ax HE160 CH15&CH47&CH79	NSS1 MCS0
Mode 18	TX IEEE 802.11ax HE160 CH111	NSS1 MCS0
Mode 19	TX IEEE 802.11ax HE160 CH143	NSS1 MCS0
Mode 20	TX IEEE 802.11ax HE160 CH207	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 21: 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.

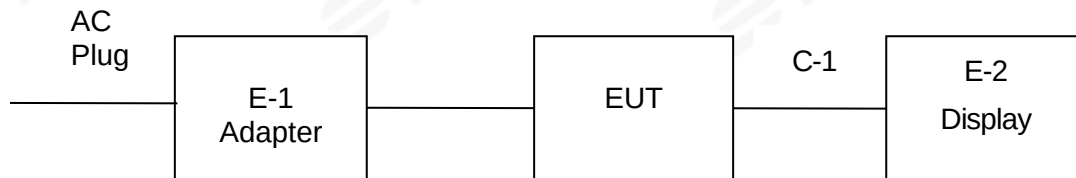
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI 6E	U-NII-5 (5925MHz-6425MHz)	802.11a	ANT 1: -3.41 ANT 2: -3.49 MIMO: -0.44	6	6	QA_TOOL v2.39
		802.11n(HT20)		6	6	
		802.11n(HT40)		6	6	
		802.11ac(VHT20)		6	6	
		802.11ac(VHT40)		6	6	
		802.11ac(VHT80)		6	6	
		802.11ac(VHT160)		6	6	
		802.11ax(HE20)		6	6	
		802.11ax(HE40)		6	6	
		802.11ax(HE80)		6	6	
		802.11ax(HE160)		6	6	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(6E)	U-NII-6 (6425MHz-6525MHz)	802.11a	ANT 1: -3.41 ANT 2: -3.49 MIMO: -0.44	6	6	QA_TOOL v2.39
		802.11n(HT20)		6	6	
		802.11n(HT40)		6	6	
		802.11ac(VHT20)		6	6	
		802.11ac(VHT40)		6	6	
		802.11ac(VHT80)		6	6	
		802.11ac(VHT160)		6	6	
		802.11ax(HE20)		6	6	
		802.11ax(HE40)		6	6	
		802.11ax(HE80)		6	6	
		802.11ax(HE160)		6	6	



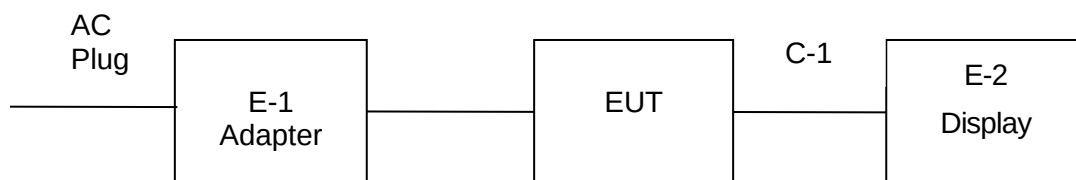
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(6E)	U-NII-7 (6525MHz-6875MHz)	802.11a	ANT 1: -3.41 ANT 2: -3.49 MIMO: -0.44	6	6	QA_TOOL v2.39
		802.11n(HT20)		6	6	
		802.11n(HT40)		6	6	
		802.11ac(VHT20)		6	6	
		802.11ac(VHT40)		6	6	
		802.11ac(VHT80)		6	6	
		802.11ac(VHT160)		6	6	
		802.11ax(HE20)		6	6	
		802.11ax(HE40)		6	6	
		802.11ax(HE80)		6	6	
		802.11ax(HE160)		6	6	
		802.11ax(HE160)		6	6	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(6E)	U-NII-8 (6875MHz-7125MHz)	802.11a	ANT 1: -3.41 ANT 2: -3.49 MIMO: -0.44	6	6	QA_TOOL v2.39
		802.11n(HT20)		6	6	
		802.11n(HT40)		6	6	
		802.11ac(VHT20)		6	6	
		802.11ac(VHT40)		6	6	
		802.11ac(VHT80)		6	6	
		802.11ac(VHT160)		6	6	
		802.11ax(HE20)		6	6	
		802.11ax(HE40)		6	6	
		802.11ax(HE80)		6	6	
		802.11ax(HE160)		6	6	
		802.11ax(HE160)		6	6	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

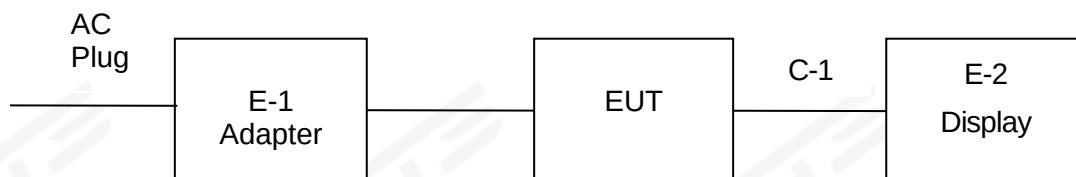
Radiated Spurious Emission Test



AC 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	PA-1121-76E	N/A
E-2	Display	AOC	U27V5C	N/A
C-1	HDMI Cable	ZTC	NB-A515A	N/A

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

Note:

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



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Pre-Amplifier(0.1M-3 GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18 GHz)	SKET	LNPA-01018G-45	SK2018080901	2024.09.28	2025.09.27
				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	2023.09.29	2025.09.28
				2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.29	2025.09.28
				2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.09.29	2025.09.28
				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	2024.09.28	2025.09.27
				2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFE NG	DPS-305AF	17064939	2024.09.23	2025.09.22
				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	2024.09.28	2025.09.27
				2025.09.25	2026.09.24
Limtter	CYBERTEK	EM5010	N/A	2024.09.28	2025.09.27
				2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2024.09.28	2025.09.27
				2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2024.09.28	2025.09.27
				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
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2025.02.22	2026.02.21
Switch control box	TST	TSCB562R2	N/A	N/A	N/A
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	TST	TST-PASS_2.0.1			



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

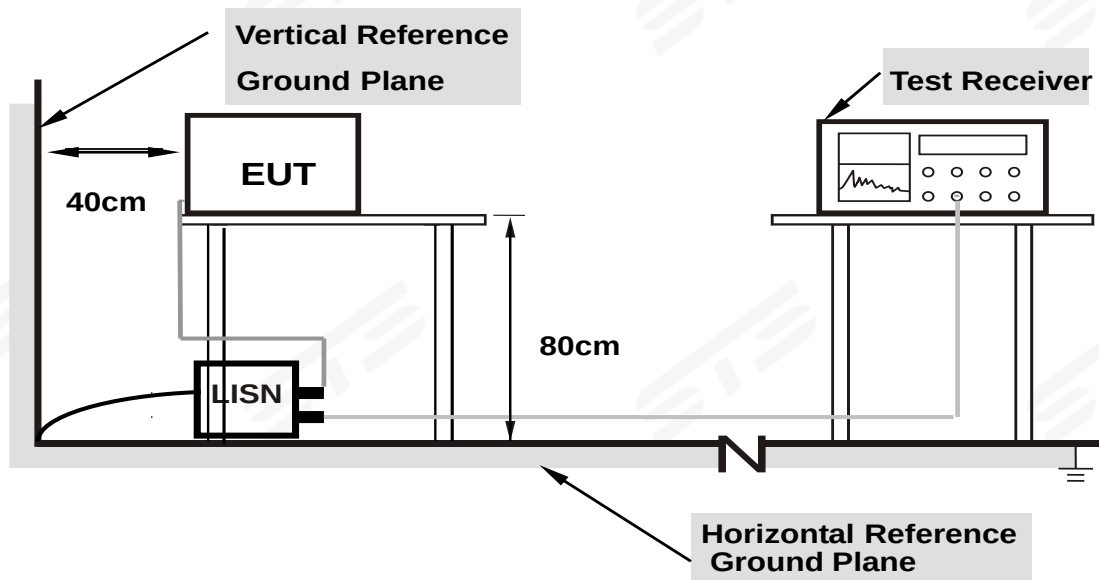
3.1.2 TEST PROCEDURE

- 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.



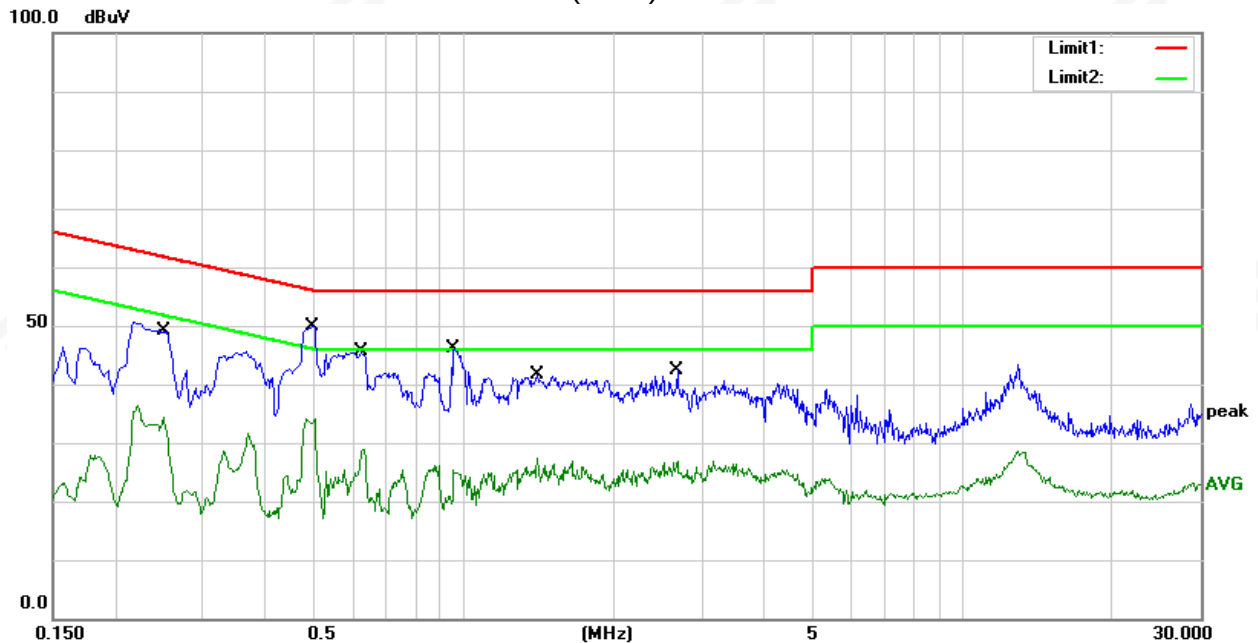
3.1.6 TEST RESULTS

Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 21		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2500	29.07	20.00	49.07	61.76	-12.69	QP
2	0.2500	16.28	20.00	36.28	51.76	-15.48	AVG
3	0.4980	29.82	20.01	49.83	56.03	-6.20	QP
4	0.4980	14.12	20.01	34.13	46.03	-11.90	AVG
5	0.6220	25.75	19.89	45.64	56.00	-10.36	QP
6	0.6220	9.06	19.89	28.95	46.00	-17.05	AVG
7	0.9620	26.37	19.79	46.16	56.00	-9.84	QP
8	0.9620	5.60	19.79	25.39	46.00	-20.61	AVG
9	1.4060	21.91	19.77	41.68	56.00	-14.32	QP
10	1.4060	7.56	19.77	27.33	46.00	-18.67	AVG
11	2.6860	22.52	19.78	42.30	56.00	-13.70	QP
12	2.6860	7.09	19.78	26.87	46.00	-19.13	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)





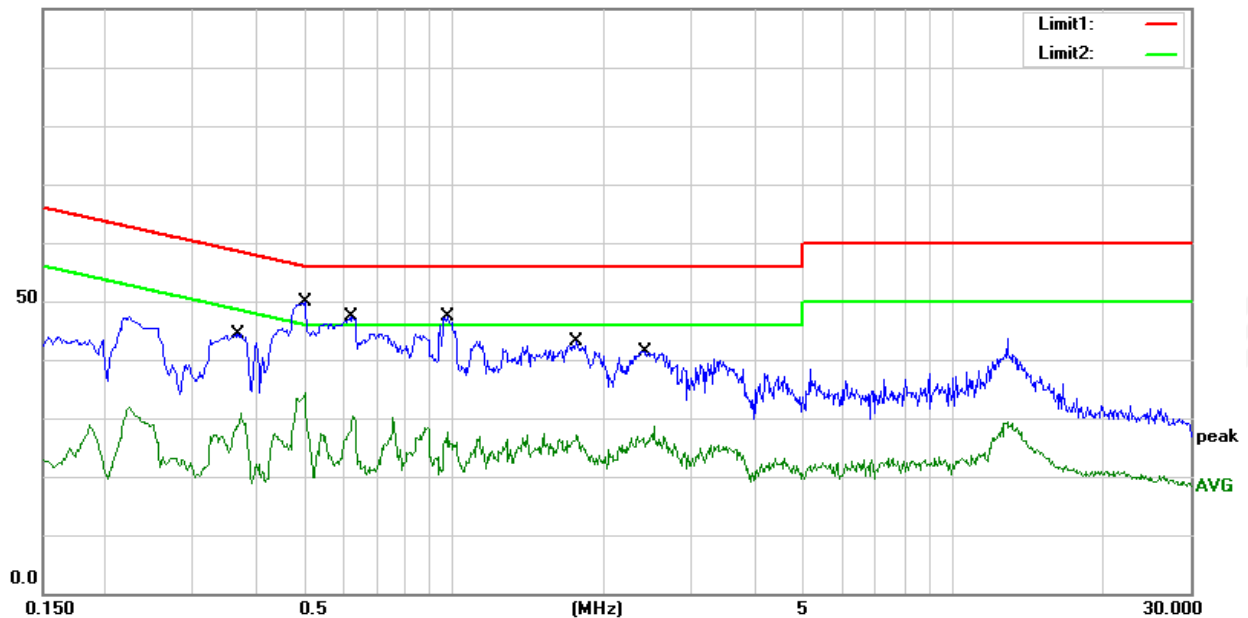
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode :	Mode 21		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3700	24.38	20.11	44.49	58.50	-14.01	QP
2	0.3700	10.66	20.11	30.77	48.50	-17.73	AVG
3	0.5020	29.92	19.96	49.88	56.00	-6.12	QP
4	0.5020	14.45	19.96	34.41	46.00	-11.59	AVG
5	0.6260	27.62	19.88	47.50	56.00	-8.50	QP
6	0.6260	10.37	19.88	30.25	46.00	-15.75	AVG
7	0.9700	27.60	19.79	47.39	56.00	-8.61	QP
8	0.9700	10.35	19.79	30.14	46.00	-15.86	AVG
9	1.7620	23.36	19.83	43.19	56.00	-12.81	QP
10	1.7620	7.63	19.83	27.46	46.00	-18.54	AVG
11	2.4100	21.51	19.87	41.38	56.00	-14.62	QP
12	2.4100	8.66	19.87	28.53	46.00	-17.47	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 (BANDEDGE) MEASUREMENT

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

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

Frequency (MHz)	Field Strength (microvolt/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)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15E.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

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

**LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS**

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

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

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

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

For Band edge

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

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



3.2.2 TEST PROCEDURE

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

Note:

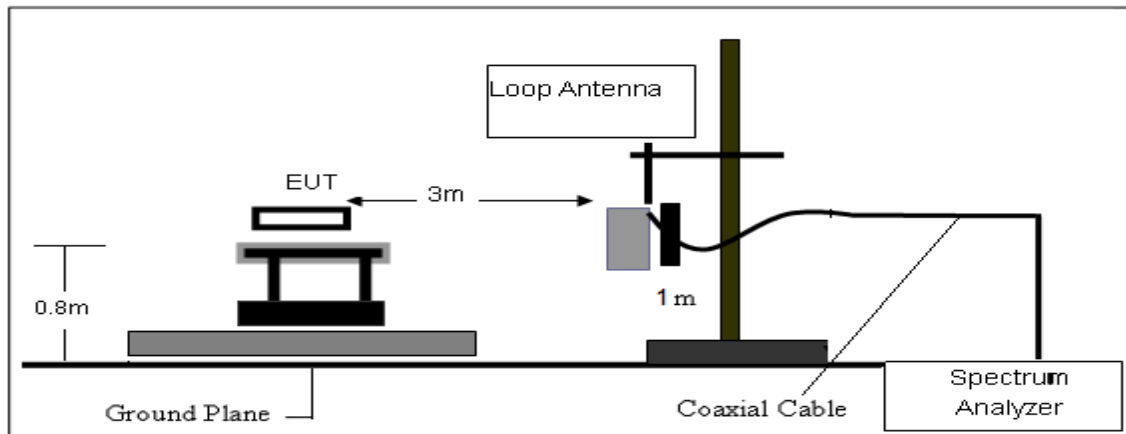
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

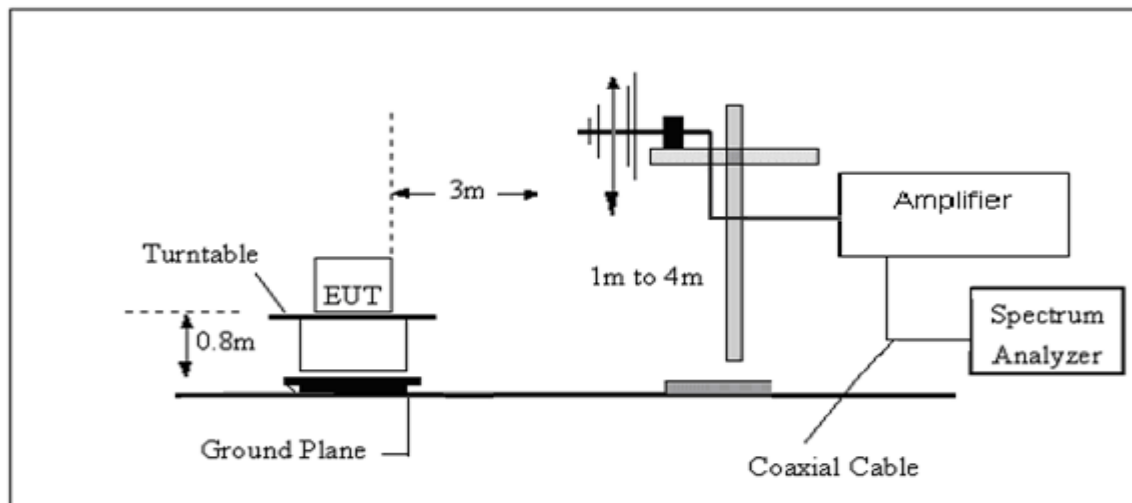
No deviation

3.2.3 TEST SETUP

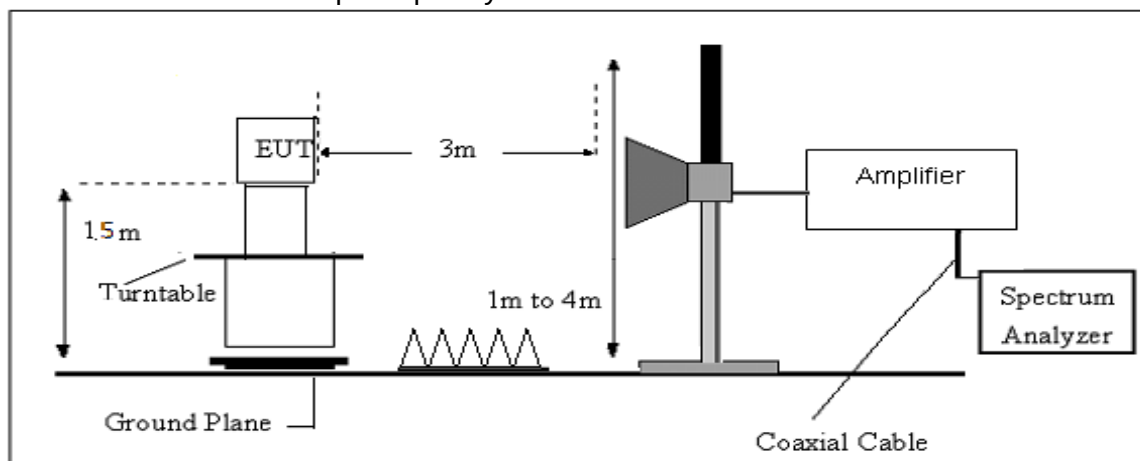
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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





3.2.4 EUT OPERATING CONDITIONS

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

3.2.5 FIELD STRENGTH CALCULATION

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

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

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

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

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



3.2.6 TEST RESULTS (Between 9KHz – 30 MHz)

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Polarization :	--
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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



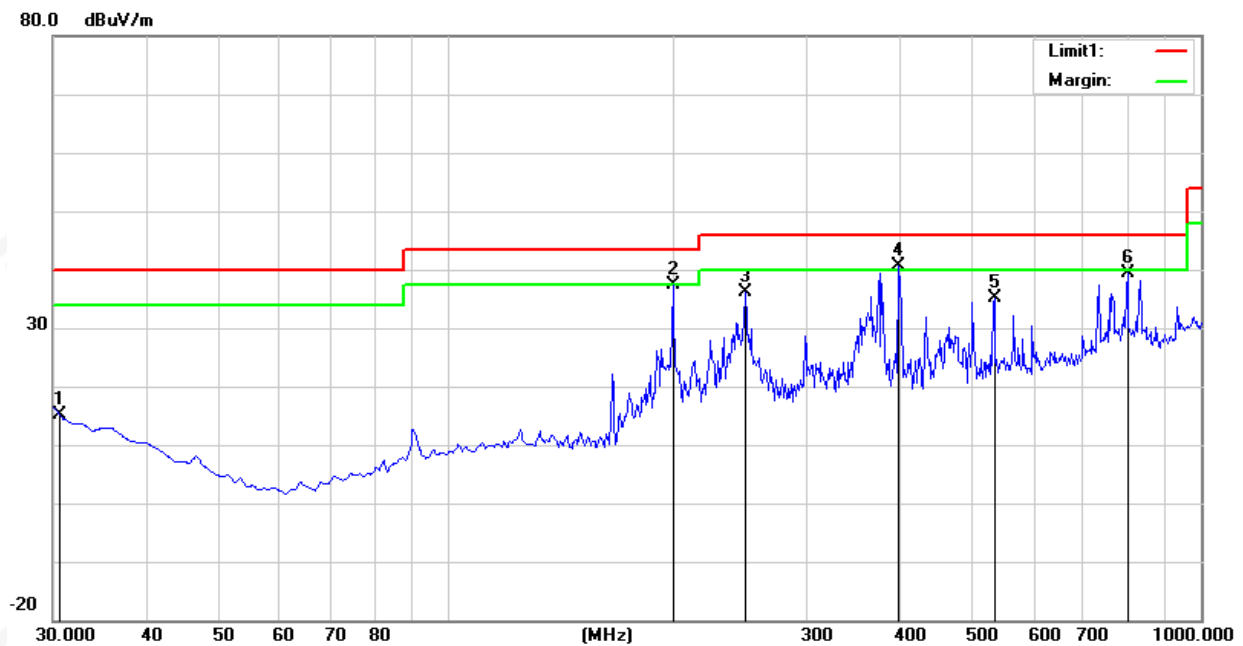
3.2.7 TEST RESULTS (Between 30MHz – 1GHz)

Temperature	23.4℃	Relative Humidity:	60%RH
Test Voltage	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	Mode 1~18 (Mode 3 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.6380	28.40	-13.18	15.22	40.00	-24.78	peak
2	199.7500	58.53	-21.11	37.42	43.50	-6.08	peak
3	249.2200	52.33	-16.27	36.06	46.00	-9.94	peak
4	397.6300	51.80	-11.24	40.56	46.00	-5.44	peak
5	533.4300	42.26	-7.25	35.01	46.00	-10.99	peak
6	799.2100	41.43	-2.04	39.39	46.00	-6.61	peak

Remark:

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





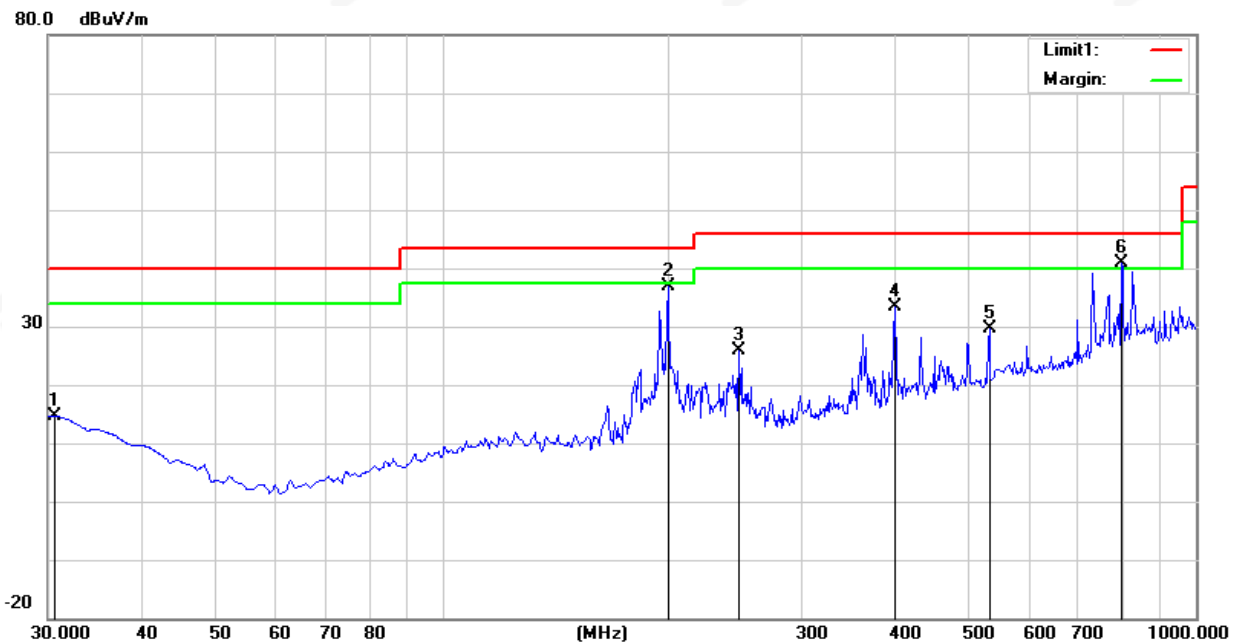
Temperature	23.4℃	Relative Humidity:	60%
Test Voltage	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	Mode 1~18 (Mode 3 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.6380	27.82	-13.18	14.64	40.00	-25.36	peak
2	199.7500	58.05	-21.11	36.94	43.50	-6.56	peak
3	248.2500	42.31	-16.43	25.88	46.00	-20.12	peak
4	399.5700	44.51	-11.16	33.35	46.00	-12.65	peak
5	532.4600	36.83	-7.31	29.52	46.00	-16.48	peak
6	798.2400	43.01	-2.03	40.98	46.00	-5.02	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)

Band 5

U-NII 5										
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 (802.11ax80/ 5985 MHz)										
3264.73	44.54	44.70	6.70	28.20	-9.80	34.74	74.00	-39.26	Pk	Vertical
3264.73	41.22	44.70	6.70	28.20	-9.80	31.42	54.00	-22.58	AV	Vertical
3252.92	45.19	44.70	6.70	28.20	-9.80	35.39	68.20	-32.81	Pk	Horizontal
3252.92	42.12	44.70	6.70	28.20	-9.80	32.32	54.00	-21.68	AV	Horizontal
3995.77	39.41	44.20	7.90	29.70	-6.60	32.81	74.00	-41.19	Pk	Vertical
3995.77	36.06	44.20	7.90	29.70	-6.60	29.46	54.00	-24.54	AV	Vertical
3981.53	39.32	44.20	7.90	29.70	-6.60	32.72	74.00	-41.28	Pk	Horizontal
3981.53	36.62	44.20	7.90	29.70	-6.60	30.02	54.00	-23.98	AV	Horizontal
7217.15	36.68	43.50	11.40	35.50	3.40	40.08	68.20	-28.12	Pk	Vertical
7217.15	33.47	43.50	11.40	35.50	3.40	36.87	54.00	-17.13	AV	Vertical
7229.84	36.62	43.50	11.40	35.50	3.40	40.02	68.20	-28.18	Pk	Horizontal
7229.84	34.04	43.50	11.40	35.50	3.40	37.44	54.00	-16.56	AV	Horizontal
11969.89	39.16	44.50	13.80	38.80	8.10	47.26	74.00	-26.74	Pk	Vertical
11969.89	36.29	44.50	13.80	38.80	8.10	44.39	54.00	-9.61	AV	Vertical
11969.86	39.25	44.50	13.80	38.80	8.10	47.35	74.00	-26.65	Pk	Horizontal
11969.86	36.56	44.50	13.80	38.80	8.10	44.66	54.00	-9.34	AV	Horizontal
14944.19	32.82	43.60	14.30	39.50	10.20	43.02	68.20	-25.18	Pk	Vertical
14944.19	30.85	43.60	14.30	39.50	10.20	41.05	54.00	-12.95	AV	Vertical
14945.04	33.47	43.60	14.30	39.50	10.20	43.67	68.20	-24.53	Pk	Horizontal
14945.04	30.54	43.60	14.30	39.50	10.20	40.74	54.00	-13.26	AV	Horizontal
17950.34	31.86	42.60	15.90	38.90	12.20	44.06	68.20	-24.14	Pk	Vertical
17950.34	29.04	42.60	15.90	38.90	12.20	41.24	54.00	-12.76	AV	Vertical
17940.57	32.23	42.60	15.90	38.90	12.20	44.43	68.20	-23.77	Pk	Horizontal
17940.57	29.42	42.60	15.90	38.90	12.20	41.62	54.00	-12.38	AV	Horizontal
Mid Channel (802.11ax80/6145 MHz)										
3258.86	43.80	44.70	6.70	28.20	-9.80	34.00	68.20	-34.20	Pk	Vertical
3258.86	41.83	44.70	6.70	28.20	-9.80	32.03	54.00	-21.97	AV	Vertical
3249.60	44.75	44.70	6.70	28.20	-9.80	34.95	68.20	-33.25	Pk	Horizontal
3249.60	40.84	44.70	6.70	28.20	-9.80	31.04	54.00	-22.96	AV	Horizontal
3983.89	39.91	44.20	7.90	29.70	-6.60	33.31	74.00	-40.69	Pk	Vertical
3983.89	36.58	44.20	7.90	29.70	-6.60	29.98	54.00	-24.02	AV	Vertical
3991.28	39.96	44.20	7.90	29.70	-6.60	33.36	74.00	-40.64	Pk	Horizontal
3991.28	36.36	44.20	7.90	29.70	-6.60	29.76	54.00	-24.24	AV	Horizontal
7225.52	37.17	43.50	11.40	35.50	3.40	40.57	68.20	-27.63	Pk	Vertical
7225.52	34.38	43.50	11.40	35.50	3.40	37.78	54.00	-16.22	AV	Vertical
7221.25	37.41	43.50	11.40	35.50	3.40	40.81	68.20	-27.39	Pk	Horizontal
7221.25	34.00	43.50	11.40	35.50	3.40	37.40	54.00	-16.60	AV	Horizontal
12289.51	39.98	44.50	13.80	38.80	8.10	48.08	74.00	-25.92	Pk	Vertical
12289.51	36.66	44.50	13.80	38.80	8.10	44.76	54.00	-9.24	AV	Vertical
12289.57	39.02	44.50	13.80	38.80	8.10	47.12	74.00	-26.88	Pk	Horizontal
12289.57	37.08	44.50	13.80	38.80	8.10	45.18	54.00	-8.82	AV	Horizontal
15351.29	32.86	43.60	14.30	39.50	10.20	43.06	68.20	-25.14	Pk	Vertical
15351.29	30.97	43.60	14.30	39.50	10.20	41.17	54.00	-12.83	AV	Vertical
15360.86	34.07	43.60	14.30	39.50	10.20	44.27	68.20	-23.93	Pk	Horizontal
15360.86	29.94	43.60	14.30	39.50	10.20	40.14	54.00	-13.86	AV	Horizontal
18422.11	32.42	42.60	15.90	38.90	12.20	44.62	68.20	-23.58	Pk	Vertical
18422.11	29.68	42.60	15.90	38.90	12.20	41.88	54.00	-12.12	AV	Vertical
18427.02	32.01	42.60	15.90	38.90	12.20	44.21	68.20	-23.99	Pk	Horizontal
18427.02	29.01	42.60	15.90	38.90	12.20	41.21	54.00	-12.79	AV	Horizontal



High Channel (802.11ax80/ 6385 MHz)										
3245.89	45.18	44.70	6.70	28.20	-9.80	35.38	68.20	-32.82	Pk	Vertical
3245.89	41.82	44.70	6.70	28.20	-9.80	32.02	54.00	-21.98	AV	Vertical
3257.52	44.69	44.70	6.70	28.20	-9.80	34.89	68.20	-33.31	Pk	Horizontal
3257.52	40.74	44.70	6.70	28.20	-9.80	30.94	54.00	-23.06	AV	Horizontal
3994.91	39.82	44.20	7.90	29.70	-6.60	33.22	74.00	-40.78	Pk	Vertical
3994.91	36.23	44.20	7.90	29.70	-6.60	29.63	54.00	-24.37	AV	Vertical
3991.32	39.79	44.20	7.90	29.70	-6.60	33.19	74.00	-40.81	Pk	Horizontal
3991.32	35.82	44.20	7.90	29.70	-6.60	29.22	54.00	-24.78	AV	Horizontal
7219.69	37.09	43.50	11.40	35.50	3.40	40.49	68.20	-27.71	Pk	Vertical
7219.69	34.60	43.50	11.40	35.50	3.40	38.00	54.00	-16.00	AV	Vertical
7222.38	37.53	43.50	11.40	35.50	3.40	40.93	68.20	-27.27	Pk	Horizontal
7222.38	34.23	43.50	11.40	35.50	3.40	37.63	54.00	-16.37	AV	Horizontal
12769.66	39.93	44.50	13.80	38.80	8.10	48.03	68.20	-20.17	Pk	Vertical
12769.66	36.01	44.50	13.80	38.80	8.10	44.11	54.00	-9.89	AV	Vertical
12769.83	39.46	44.50	13.80	38.80	8.10	47.56	68.20	-20.64	Pk	Horizontal
12769.83	35.80	44.50	13.80	38.80	8.10	43.90	54.00	-10.10	AV	Horizontal
15958.02	33.82	43.60	14.30	39.50	10.20	44.02	68.20	-24.18	Pk	Vertical
15958.02	30.01	43.60	14.30	39.50	10.20	40.21	54.00	-13.79	AV	Vertical
15945.32	33.60	43.60	14.30	39.50	10.20	43.80	68.20	-24.40	Pk	Horizontal
15945.32	30.40	43.60	14.30	39.50	10.20	40.60	54.00	-13.40	AV	Horizontal
19140.10	32.41	42.60	15.90	38.90	12.20	44.61	68.20	-23.59	Pk	Vertical
19140.10	29.92	42.60	15.90	38.90	12.20	42.12	54.00	-11.88	AV	Vertical
19149.76	32.86	42.60	15.90	38.90	12.20	45.06	68.20	-23.14	Pk	Horizontal
19149.76	29.05	42.60	15.90	38.90	12.20	41.25	54.00	-12.75	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, 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.



Band 6

U-NII 6										
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 (802.11ax20/ 6435 MHz)										
3248.72	44.56	44.70	6.70	28.20	-9.80	34.76	68.20	-33.44	Pk	Vertical
3248.72	41.11	44.70	6.70	28.20	-9.80	31.31	54.00	-22.69	AV	Vertical
3247.19	45.13	44.70	6.70	28.20	-9.80	35.33	68.20	-32.87	Pk	Horizontal
3247.19	41.67	44.70	6.70	28.20	-9.80	31.87	54.00	-22.13	AV	Horizontal
3992.09	39.91	44.20	7.90	29.70	-6.60	33.31	74.00	-40.69	Pk	Vertical
3992.09	36.53	44.20	7.90	29.70	-6.60	29.93	54.00	-24.07	AV	Vertical
3985.48	38.68	44.20	7.90	29.70	-6.60	32.08	74.00	-41.92	Pk	Horizontal
3985.48	36.09	44.20	7.90	29.70	-6.60	29.49	54.00	-24.51	AV	Horizontal
7221.07	36.99	43.50	11.40	35.50	3.40	40.39	68.20	-27.81	Pk	Vertical
7221.07	33.70	43.50	11.40	35.50	3.40	37.10	54.00	-16.90	AV	Vertical
7234.22	37.05	43.50	11.40	35.50	3.40	40.45	68.20	-27.75	Pk	Horizontal
7234.22	34.85	43.50	11.40	35.50	3.40	38.25	54.00	-15.75	AV	Horizontal
12869.87	39.60	44.50	13.80	38.80	8.10	47.70	68.20	-20.50	Pk	Vertical
12869.87	36.68	44.50	13.80	38.80	8.10	44.78	54.00	-9.22	AV	Vertical
12869.91	39.90	44.50	13.80	38.80	8.10	48.00	68.20	-20.20	Pk	Horizontal
12869.91	35.74	44.50	13.80	38.80	8.10	43.84	54.00	-10.16	AV	Horizontal
16068.69	34.11	43.60	14.30	39.50	10.20	44.31	68.20	-23.89	Pk	Vertical
16068.69	30.89	43.60	14.30	39.50	10.20	41.09	54.00	-12.91	AV	Vertical
16085.10	33.45	43.60	14.30	39.50	10.20	43.65	68.20	-24.55	Pk	Horizontal
16085.10	30.58	43.60	14.30	39.50	10.20	40.78	54.00	-13.22	AV	Horizontal
19285.92	32.65	42.60	15.90	38.90	12.20	44.85	68.20	-23.35	Pk	Vertical
19285.92	29.35	42.60	15.90	38.90	12.20	41.55	54.00	-12.45	AV	Vertical
19300.50	31.61	42.60	15.90	38.90	12.20	43.81	68.20	-24.39	Pk	Horizontal
19300.50	28.62	42.60	15.90	38.90	12.20	40.82	54.00	-13.18	AV	Horizontal
Mid Channel (802.11ax20/ 6475MHz)										
3260.06	44.76	44.70	6.70	28.20	-9.80	34.96	74.00	-39.04	Pk	Vertical
3260.06	42.01	44.70	6.70	28.20	-9.80	32.21	54.00	-21.79	AV	Vertical
3253.22	44.86	44.70	6.70	28.20	-9.80	35.06	68.20	-33.14	Pk	Horizontal
3253.22	41.95	44.70	6.70	28.20	-9.80	32.15	54.00	-21.85	AV	Horizontal
3984.48	38.93	44.20	7.90	29.70	-6.60	32.33	74.00	-41.67	Pk	Vertical
3984.48	35.93	44.20	7.90	29.70	-6.60	29.33	54.00	-24.67	AV	Vertical
3994.68	40.08	44.20	7.90	29.70	-6.60	33.48	74.00	-40.52	Pk	Horizontal
3994.68	36.43	44.20	7.90	29.70	-6.60	29.83	54.00	-24.17	AV	Horizontal
7223.81	36.74	43.50	11.40	35.50	3.40	40.14	68.20	-28.06	Pk	Vertical
7223.81	33.71	43.50	11.40	35.50	3.40	37.11	54.00	-16.89	AV	Vertical
7229.55	37.14	43.50	11.40	35.50	3.40	40.54	68.20	-27.66	Pk	Horizontal
7229.55	34.24	43.50	11.40	35.50	3.40	37.64	54.00	-16.36	AV	Horizontal
12949.75	39.88	44.50	13.80	38.80	8.10	47.98	68.20	-20.22	Pk	Vertical
12949.75	36.53	44.50	13.80	38.80	8.10	44.63	54.00	-9.37	AV	Vertical
12949.78	39.27	44.50	13.80	38.80	8.10	47.37	68.20	-20.83	Pk	Horizontal
12949.78	36.44	44.50	13.80	38.80	8.10	44.54	54.00	-9.46	AV	Horizontal
16176.58	34.02	43.60	14.30	39.50	10.20	44.22	68.20	-23.98	Pk	Vertical
16176.58	30.42	43.60	14.30	39.50	10.20	40.62	54.00	-13.38	AV	Vertical
16171.25	33.26	43.60	14.30	39.50	10.20	43.46	68.20	-24.74	Pk	Horizontal
16171.25	31.10	43.60	14.30	39.50	10.20	41.30	54.00	-12.70	AV	Horizontal
19410.96	31.95	42.60	15.90	38.90	12.20	44.15	68.20	-24.05	Pk	Vertical
19410.96	29.67	42.60	15.90	38.90	12.20	41.87	54.00	-12.13	AV	Vertical
19406.13	32.58	42.60	15.90	38.90	12.20	44.78	68.20	-23.42	Pk	Horizontal
19406.13	29.77	42.60	15.90	38.90	12.20	41.97	54.00	-12.03	AV	Horizontal



High Channel (802.11ax20/ 6515 MHz)										
3246.65	44.13	44.70	6.70	28.20	-9.80	34.33	68.20	-33.87	Pk	Vertical
3246.65	41.85	44.70	6.70	28.20	-9.80	32.05	54.00	-21.95	AV	Vertical
3255.12	43.94	44.70	6.70	28.20	-9.80	34.14	68.20	-34.06	Pk	Horizontal
3255.12	41.98	44.70	6.70	28.20	-9.80	32.18	54.00	-21.82	AV	Horizontal
3992.77	38.66	44.20	7.90	29.70	-6.60	32.06	74.00	-41.94	Pk	Vertical
3992.77	36.87	44.20	7.90	29.70	-6.60	30.27	54.00	-23.73	AV	Vertical
3998.81	38.65	44.20	7.90	29.70	-6.60	32.05	74.00	-41.95	Pk	Horizontal
3998.81	36.92	44.20	7.90	29.70	-6.60	30.32	54.00	-23.68	AV	Horizontal
7225.44	37.23	43.50	11.40	35.50	3.40	40.63	68.20	-27.57	Pk	Vertical
7225.44	34.43	43.50	11.40	35.50	3.40	37.83	54.00	-16.17	AV	Vertical
7223.74	37.00	43.50	11.40	35.50	3.40	40.40	68.20	-27.80	Pk	Horizontal
7223.74	34.39	43.50	11.40	35.50	3.40	37.79	54.00	-16.21	AV	Horizontal
13029.76	40.03	44.50	13.80	38.80	8.10	48.13	68.20	-20.07	Pk	Vertical
13029.76	36.79	44.50	13.80	38.80	8.10	44.89	54.00	-9.11	AV	Vertical
13029.95	39.30	44.50	13.80	38.80	8.10	47.40	68.20	-20.80	Pk	Horizontal
13029.95	37.06	44.50	13.80	38.80	8.10	45.16	54.00	-8.84	AV	Horizontal
16270.47	32.97	43.60	14.30	39.50	10.20	43.17	68.20	-25.03	Pk	Vertical
16270.47	30.51	43.60	14.30	39.50	10.20	40.71	54.00	-13.29	AV	Vertical
16268.41	33.97	43.60	14.30	39.50	10.20	44.17	68.20	-24.03	Pk	Horizontal
16268.41	30.82	43.60	14.30	39.50	10.20	41.02	54.00	-12.98	AV	Horizontal
19528.09	32.12	42.60	15.90	38.90	12.20	44.32	68.20	-23.88	Pk	Vertical
19528.09	29.36	42.60	15.90	38.90	12.20	41.56	54.00	-12.44	AV	Vertical
19531.72	32.58	42.60	15.90	38.90	12.20	44.78	68.20	-23.42	Pk	Horizontal
19531.72	29.09	42.60	15.90	38.90	12.20	41.29	54.00	-12.71	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, 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.



Band 7

U-NII 7										
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 (802.11ax80/ 6625 MHz)										
3257.11	44.21	44.70	6.70	28.20	-9.80	34.41	68.20	-33.79	Pk	Vertical
3257.11	41.06	44.70	6.70	28.20	-9.80	31.26	54.00	-22.74	AV	Vertical
3254.85	45.20	44.70	6.70	28.20	-9.80	35.40	68.20	-32.80	Pk	Horizontal
3254.85	41.39	44.70	6.70	28.20	-9.80	31.59	54.00	-22.41	AV	Horizontal
3993.06	38.97	44.20	7.90	29.70	-6.60	32.37	74.00	-41.63	Pk	Vertical
3993.06	36.42	44.20	7.90	29.70	-6.60	29.82	54.00	-24.18	AV	Vertical
3988.78	39.61	44.20	7.90	29.70	-6.60	33.01	74.00	-40.99	Pk	Horizontal
3988.78	36.95	44.20	7.90	29.70	-6.60	30.35	54.00	-23.65	AV	Horizontal
7234.07	37.72	43.50	11.40	35.50	3.40	41.12	68.20	-27.08	Pk	Vertical
7234.07	34.31	43.50	11.40	35.50	3.40	37.71	54.00	-16.29	AV	Vertical
7220.77	37.48	43.50	11.40	35.50	3.40	40.88	68.20	-27.32	Pk	Horizontal
7220.77	34.19	43.50	11.40	35.50	3.40	37.59	54.00	-16.41	AV	Horizontal
13249.85	39.29	44.50	13.80	38.80	8.10	47.39	68.20	-20.81	Pk	Vertical
13249.85	36.76	44.50	13.80	38.80	8.10	44.86	54.00	-9.14	AV	Vertical
13249.80	39.14	44.50	13.80	38.80	8.10	47.24	68.20	-20.96	Pk	Horizontal
13249.80	35.82	44.50	13.80	38.80	8.10	43.92	54.00	-10.08	AV	Horizontal
16560.87	34.13	43.60	14.30	39.50	10.20	44.33	68.20	-23.87	Pk	Vertical
16560.87	30.51	43.60	14.30	39.50	10.20	40.71	54.00	-13.29	AV	Vertical
16555.28	33.87	43.60	14.30	39.50	10.20	44.07	68.20	-24.13	Pk	Horizontal
16555.28	30.89	43.60	14.30	39.50	10.20	41.09	54.00	-12.91	AV	Horizontal
19863.61	32.99	42.60	15.90	38.90	12.20	45.19	68.20	-23.01	Pk	Vertical
19863.61	29.02	42.60	15.90	38.90	12.20	41.22	54.00	-12.78	AV	Vertical
19863.58	32.57	42.60	15.90	38.90	12.20	44.77	68.20	-23.43	Pk	Horizontal
19863.58	28.63	42.60	15.90	38.90	12.20	40.83	54.00	-13.17	AV	Horizontal
Mid Channel (802.11ax80/ 6705MHz)										
3260.93	44.66	44.70	6.70	28.20	-9.80	34.86	74.00	-39.14	Pk	Vertical
3260.93	41.74	44.70	6.70	28.20	-9.80	31.94	54.00	-22.06	AV	Vertical
3258.87	44.63	44.70	6.70	28.20	-9.80	34.83	68.20	-33.37	Pk	Horizontal
3258.87	40.78	44.70	6.70	28.20	-9.80	30.98	54.00	-23.02	AV	Horizontal
3993.86	39.60	44.20	7.90	29.70	-6.60	33.00	74.00	-41.00	Pk	Vertical
3993.86	36.42	44.20	7.90	29.70	-6.60	29.82	54.00	-24.18	AV	Vertical
3987.97	39.88	44.20	7.90	29.70	-6.60	33.28	74.00	-40.72	Pk	Horizontal
3987.97	36.80	44.20	7.90	29.70	-6.60	30.20	54.00	-23.80	AV	Horizontal
7226.28	37.03	43.50	11.40	35.50	3.40	40.43	68.20	-27.77	Pk	Vertical
7226.28	34.34	43.50	11.40	35.50	3.40	37.74	54.00	-16.26	AV	Vertical
7219.89	36.79	43.50	11.40	35.50	3.40	40.19	68.20	-28.01	Pk	Horizontal
7219.89	34.66	43.50	11.40	35.50	3.40	38.06	54.00	-15.94	AV	Horizontal
13409.59	39.69	44.50	13.80	38.80	8.10	47.79	68.20	-20.41	Pk	Vertical
13409.59	35.76	44.50	13.80	38.80	8.10	43.86	54.00	-10.14	AV	Vertical
13409.73	39.37	44.50	13.80	38.80	8.10	47.47	68.20	-20.73	Pk	Horizontal
13409.73	35.75	44.50	13.80	38.80	8.10	43.85	54.00	-10.15	AV	Horizontal
16751.02	32.90	43.60	14.30	39.50	10.20	43.10	68.20	-25.10	Pk	Vertical
16751.02	29.79	43.60	14.30	39.50	10.20	39.99	54.00	-14.01	AV	Vertical
16746.56	33.16	43.60	14.30	39.50	10.20	43.36	68.20	-24.84	Pk	Horizontal
16746.56	30.44	43.60	14.30	39.50	10.20	40.64	54.00	-13.36	AV	Horizontal
20104.57	32.64	42.60	15.90	38.90	12.20	44.84	68.20	-23.36	Pk	Vertical
20104.57	28.79	42.60	15.90	38.90	12.20	40.99	54.00	-13.01	AV	Vertical
20110.65	32.41	42.60	15.90	38.90	12.20	44.61	68.20	-23.59	Pk	Horizontal
20110.65	28.64	42.60	15.90	38.90	12.20	40.84	54.00	-13.16	AV	Horizontal



High Channel (802.11ax80/ 6785MHz)										
3251.52	44.14	44.70	6.70	28.20	-9.80	34.34	68.20	-33.86	Pk	Vertical
3251.52	42.17	44.70	6.70	28.20	-9.80	32.37	54.00	-21.63	AV	Vertical
3264.61	44.19	44.70	6.70	28.20	-9.80	34.39	74.00	-39.61	Pk	Horizontal
3264.61	41.69	44.70	6.70	28.20	-9.80	31.89	54.00	-22.11	AV	Horizontal
3996.22	39.48	44.20	7.90	29.70	-6.60	32.88	74.00	-41.12	Pk	Vertical
3996.22	36.44	44.20	7.90	29.70	-6.60	29.84	54.00	-24.16	AV	Vertical
3994.06	39.84	44.20	7.90	29.70	-6.60	33.24	74.00	-40.76	Pk	Horizontal
3994.06	36.89	44.20	7.90	29.70	-6.60	30.29	54.00	-23.71	AV	Horizontal
7225.60	37.25	43.50	11.40	35.50	3.40	40.65	68.20	-27.55	Pk	Vertical
7225.60	34.57	43.50	11.40	35.50	3.40	37.97	54.00	-16.03	AV	Vertical
7230.82	37.88	43.50	11.40	35.50	3.40	41.28	68.20	-26.92	Pk	Horizontal
7230.82	33.82	43.50	11.40	35.50	3.40	37.22	54.00	-16.78	AV	Horizontal
13569.76	39.81	44.50	13.80	38.80	8.10	47.91	68.20	-20.29	Pk	Vertical
13569.76	36.80	44.50	13.80	38.80	8.10	44.90	54.00	-9.10	AV	Vertical
13569.70	39.67	44.50	13.80	38.80	8.10	47.77	68.20	-20.43	Pk	Horizontal
13569.70	35.72	44.50	13.80	38.80	8.10	43.82	54.00	-10.18	AV	Horizontal
16957.52	32.78	43.60	14.30	39.50	10.20	42.98	68.20	-25.22	Pk	Vertical
16957.52	30.14	43.60	14.30	39.50	10.20	40.34	54.00	-13.66	AV	Vertical
16954.62	33.68	43.60	14.30	39.50	10.20	43.88	68.20	-24.32	Pk	Horizontal
16954.62	30.87	43.60	14.30	39.50	10.20	41.07	54.00	-12.93	AV	Horizontal
20342.97	32.12	42.60	15.90	38.90	12.20	44.32	68.20	-23.88	Pk	Vertical
20342.97	29.46	42.60	15.90	38.90	12.20	41.66	54.00	-12.34	AV	Vertical
20342.65	32.71	42.60	15.90	38.90	12.20	44.91	68.20	-23.29	Pk	Horizontal
20342.65	28.85	42.60	15.90	38.90	12.20	41.05	54.00	-12.95	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, 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.



Band 8

U-NII 8									
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
Low Channel (802.11ax40/ 6925 MHz)									
3255.98	44.01	44.70	6.70	28.20	-9.80	34.21	68.20	-33.99	Pk
3255.98	41.04	44.70	6.70	28.20	-9.80	31.24	54.00	-22.76	AV
3247.89	44.26	44.70	6.70	28.20	-9.80	34.46	68.20	-33.74	Pk
3247.89	41.71	44.70	6.70	28.20	-9.80	31.91	54.00	-22.09	AV
3993.90	38.65	44.20	7.90	29.70	-6.60	32.05	74.00	-41.95	Pk
3993.90	36.92	44.20	7.90	29.70	-6.60	30.32	54.00	-23.68	AV
3997.85	39.34	44.20	7.90	29.70	-6.60	32.74	74.00	-41.26	Pk
3997.85	36.18	44.20	7.90	29.70	-6.60	29.58	54.00	-24.42	AV
7228.36	36.77	43.50	11.40	35.50	3.40	40.17	68.20	-28.03	Pk
7228.36	34.52	43.50	11.40	35.50	3.40	37.92	54.00	-16.08	AV
7226.17	37.47	43.50	11.40	35.50	3.40	40.87	68.20	-27.33	Pk
7226.17	33.53	43.50	11.40	35.50	3.40	36.93	54.00	-17.07	AV
13849.71	38.99	44.50	13.80	38.80	8.10	47.09	68.20	-21.11	Pk
13849.71	36.10	44.50	13.80	38.80	8.10	44.20	54.00	-9.80	AV
13849.74	40.04	44.50	13.80	38.80	8.10	48.14	68.20	-20.06	Pk
13849.74	36.53	44.50	13.80	38.80	8.10	44.63	54.00	-9.37	AV
17304.60	33.36	43.60	14.30	39.50	10.20	43.56	68.20	-24.64	Pk
17304.60	29.73	43.60	14.30	39.50	10.20	39.93	54.00	-14.07	AV
17294.68	34.13	43.60	14.30	39.50	10.20	44.33	68.20	-23.87	Pk
17294.68	30.30	43.60	14.30	39.50	10.20	40.50	54.00	-13.50	AV
20763.47	31.58	42.60	15.90	38.90	12.20	43.78	68.20	-24.42	Pk
20763.47	28.90	42.60	15.90	38.90	12.20	41.10	54.00	-12.90	AV
20771.82	32.36	42.60	15.90	38.90	12.20	44.56	68.20	-23.64	Pk
20771.82	29.51	42.60	15.90	38.90	12.20	41.71	54.00	-12.29	AV
Mid Channel (802.11ax40/ 7005 MHz)									
3250.38	43.86	44.70	6.70	28.20	-9.80	34.06	68.20	-34.14	Pk
3250.38	40.81	44.70	6.70	28.20	-9.80	31.01	54.00	-22.99	AV
3258.52	44.17	44.70	6.70	28.20	-9.80	34.37	68.20	-33.83	Pk
3258.52	41.38	44.70	6.70	28.20	-9.80	31.58	54.00	-22.42	AV
3992.30	39.93	44.20	7.90	29.70	-6.60	33.33	74.00	-40.67	Pk
3992.30	35.78	44.20	7.90	29.70	-6.60	29.18	54.00	-24.82	AV
3991.66	39.11	44.20	7.90	29.70	-6.60	32.51	74.00	-41.49	Pk
3991.66	36.77	44.20	7.90	29.70	-6.60	30.17	54.00	-23.83	AV
7226.86	36.50	43.50	11.40	35.50	3.40	39.90	68.20	-28.30	Pk
7226.86	34.72	43.50	11.40	35.50	3.40	38.12	54.00	-15.88	AV
7220.02	36.77	43.50	11.40	35.50	3.40	40.17	68.20	-28.03	Pk
7220.02	33.45	43.50	11.40	35.50	3.40	36.85	54.00	-17.15	AV
14009.50	39.18	44.50	13.80	38.80	8.10	47.28	68.20	-20.92	Pk
14009.50	37.07	44.50	13.80	38.80	8.10	45.17	54.00	-8.83	AV
14010.00	40.06	44.50	13.80	38.80	8.10	48.16	68.20	-20.04	Pk
14010.00	36.86	44.50	13.80	38.80	8.10	44.96	54.00	-9.04	AV
17499.71	33.13	43.60	14.30	39.50	10.20	43.33	68.20	-24.87	Pk
17499.71	30.11	43.60	14.30	39.50	10.20	40.31	54.00	-13.69	AV
17509.48	33.27	43.60	14.30	39.50	10.20	43.47	68.20	-24.73	Pk
17509.48	30.50	43.60	14.30	39.50	10.20	40.70	54.00	-13.30	AV
21011.65	31.84	42.60	15.90	38.90	12.20	44.04	68.20	-24.16	Pk
21011.65	29.23	42.60	15.90	38.90	12.20	41.43	54.00	-12.57	AV
21014.45	32.63	42.60	15.90	38.90	12.20	44.83	68.20	-23.37	Pk
21014.45	28.95	42.60	15.90	38.90	12.20	41.15	54.00	-12.85	AV



High Channel (802.11ax40/ 7085 MHz)									
3254.81	43.84	44.70	6.70	28.20	-9.80	34.04	68.20	-34.16	Pk
3254.81	42.07	44.70	6.70	28.20	-9.80	32.27	54.00	-21.73	AV
3254.91	45.12	44.70	6.70	28.20	-9.80	35.32	68.20	-32.88	Pk
3254.91	41.08	44.70	6.70	28.20	-9.80	31.28	54.00	-22.72	AV
3991.09	38.95	44.20	7.90	29.70	-6.60	32.35	74.00	-41.65	Pk
3991.09	36.83	44.20	7.90	29.70	-6.60	30.23	54.00	-23.77	AV
3985.63	38.76	44.20	7.90	29.70	-6.60	32.16	74.00	-41.84	Pk
3985.63	37.08	44.20	7.90	29.70	-6.60	30.48	54.00	-23.52	AV
7217.69	36.70	43.50	11.40	35.50	3.40	40.10	68.20	-28.10	Pk
7217.69	33.82	43.50	11.40	35.50	3.40	37.22	54.00	-16.78	AV
7232.28	36.47	43.50	11.40	35.50	3.40	39.87	68.20	-28.33	Pk
7232.28	34.71	43.50	11.40	35.50	3.40	38.11	54.00	-15.89	AV
14169.93	39.65	44.50	13.80	38.80	8.10	47.75	68.20	-20.45	Pk
14169.93	36.79	44.50	13.80	38.80	8.10	44.89	54.00	-9.11	AV
14169.80	39.22	44.50	13.80	38.80	8.10	47.32	68.20	-20.88	Pk
14169.80	36.69	44.50	13.80	38.80	8.10	44.79	54.00	-9.21	AV
17703.05	34.14	43.60	14.30	39.50	10.20	44.34	68.20	-23.86	Pk
17703.05	30.37	43.60	14.30	39.50	10.20	40.57	54.00	-13.43	AV
17704.38	33.34	43.60	14.30	39.50	10.20	43.54	68.20	-24.66	Pk
17704.38	29.89	43.60	14.30	39.50	10.20	40.09	54.00	-13.91	AV
21237.13	32.70	42.60	15.90	38.90	12.20	44.90	68.20	-23.30	Pk
21237.13	29.15	42.60	15.90	38.90	12.20	41.35	54.00	-12.65	AV
21247.20	32.26	42.60	15.90	38.90	12.20	44.46	68.20	-23.74	Pk
21247.20	29.42	42.60	15.90	38.90	12.20	41.62	54.00	-12.38	AV

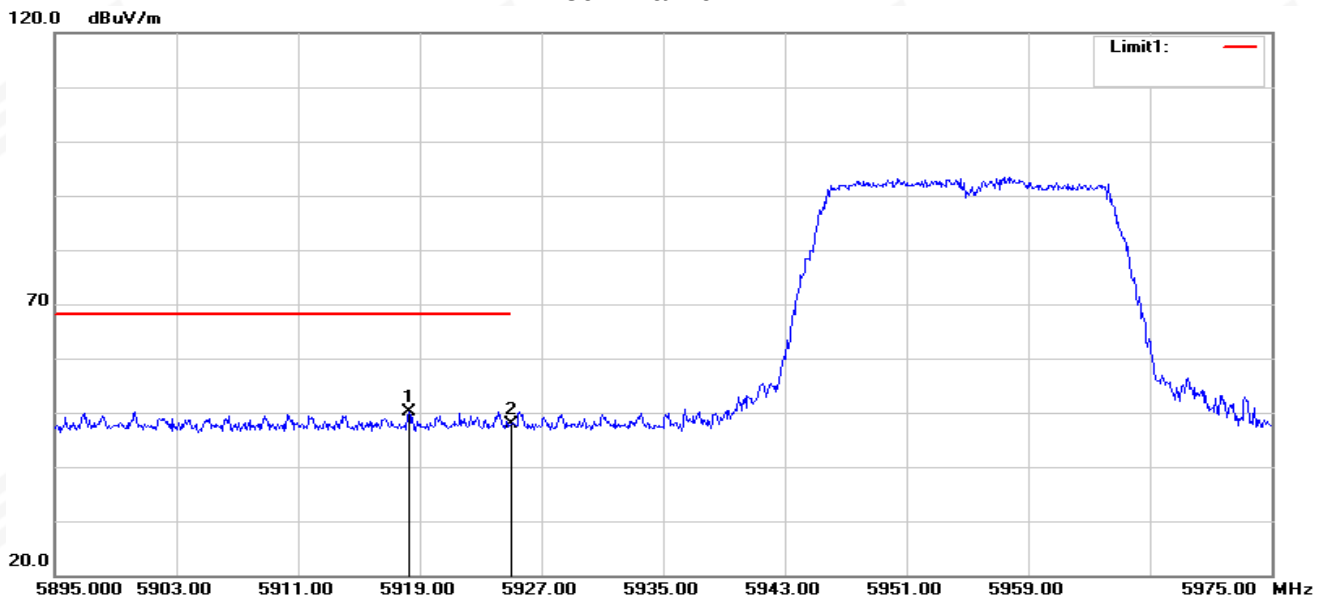
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, 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 RESTRICTED FREQUENCY BANDS AND BAND EDGE

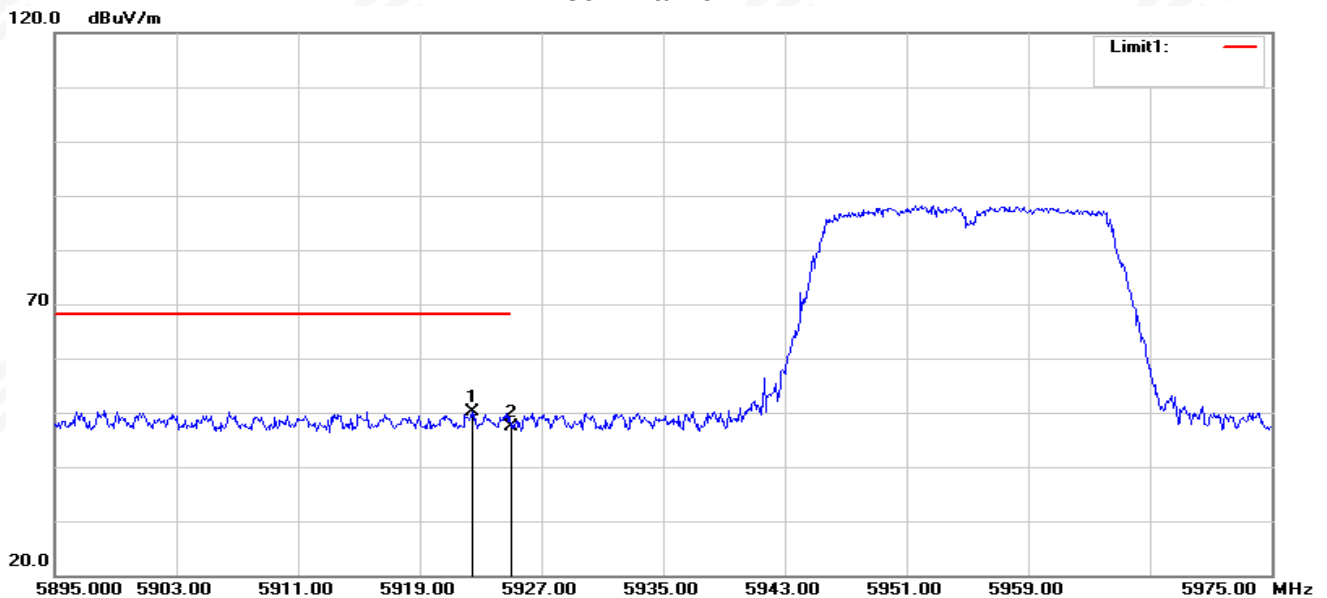
U-NII-5

802.11ax20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5918.280	53.66	-3.60	50.06	68.20	-18.14	peak
2	5925.000	51.48	-3.59	47.89	68.20	-20.31	peak

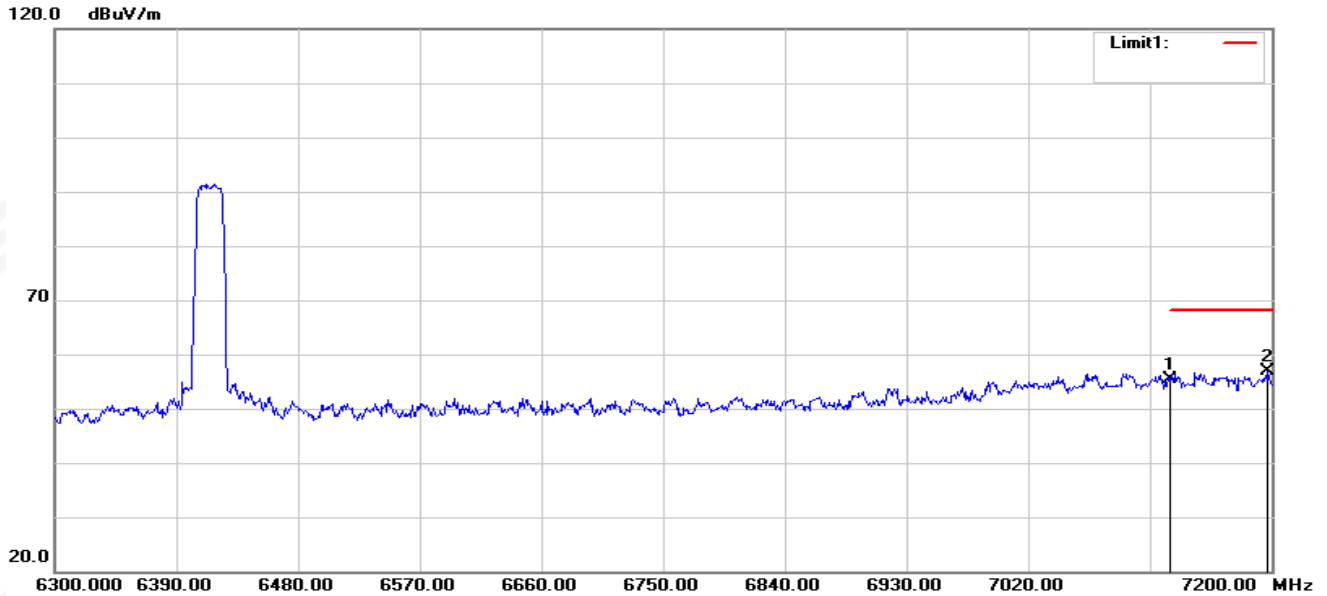
802.11ax20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5922.440	53.65	-3.59	50.06	68.20	-18.14	peak
2	5925.000	51.00	-3.59	47.41	68.20	-20.79	peak

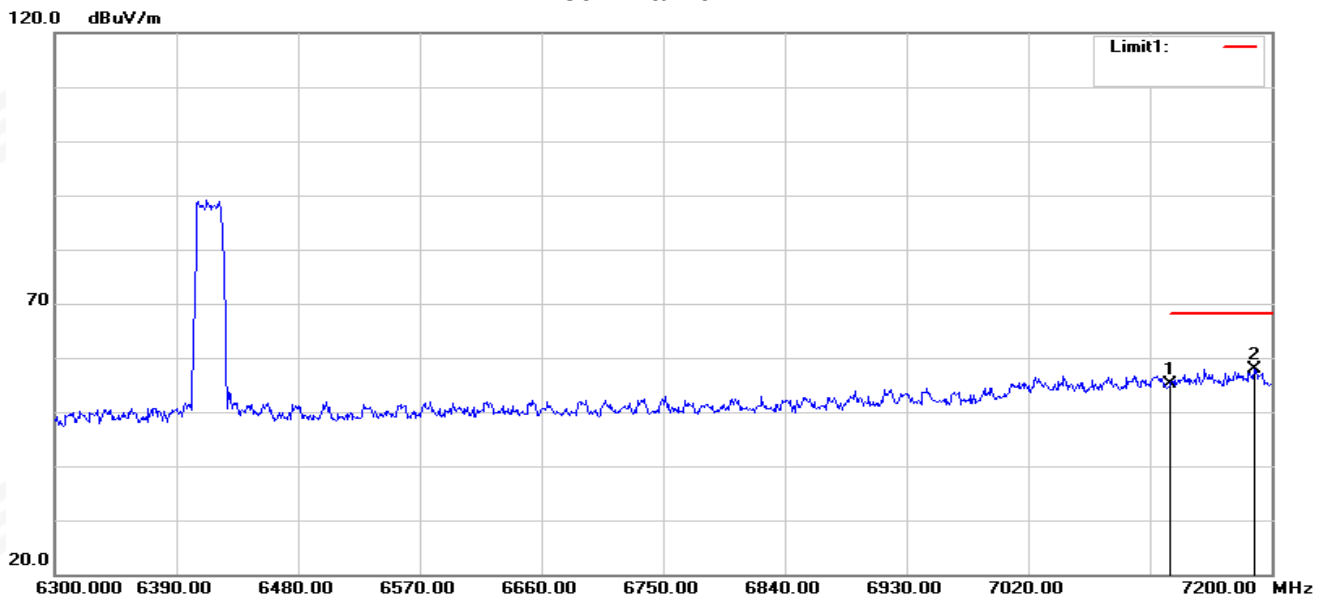


802.11ax20-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	53.27	2.10	55.37	68.20	-12.83	peak
2	7197.300	54.72	2.16	56.88	68.20	-11.32	peak

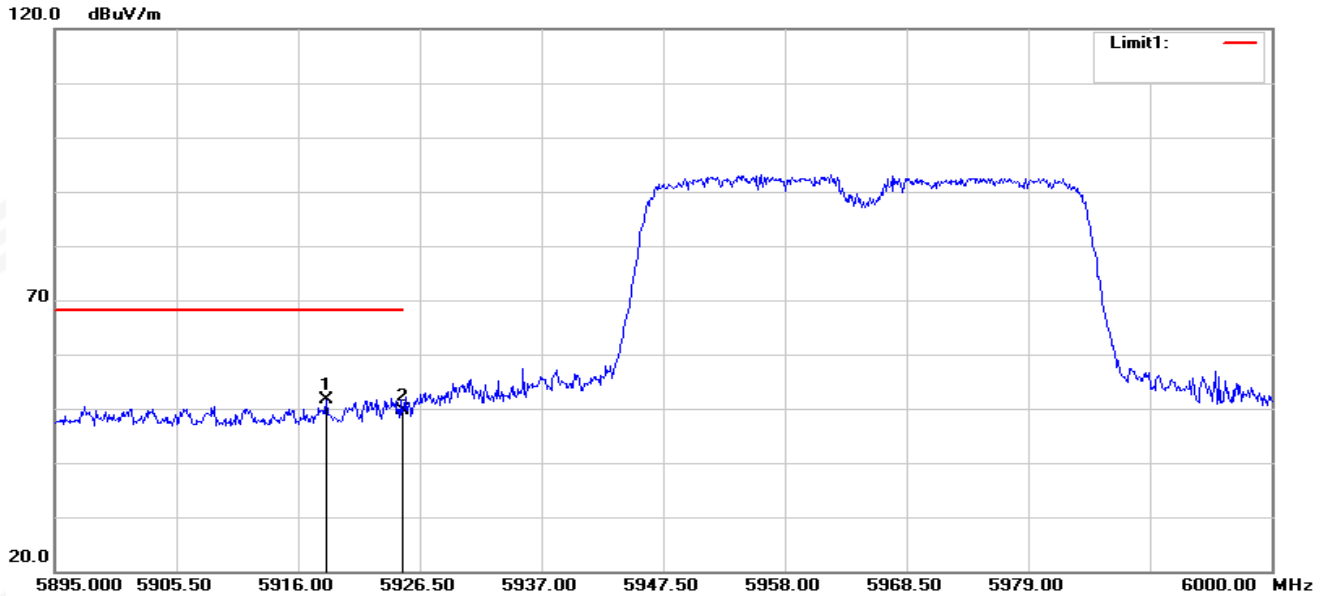
802.11ax20-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	53.04	2.10	55.14	68.20	-13.06	peak
2	7187.400	55.76	2.15	57.91	68.20	-10.29	peak

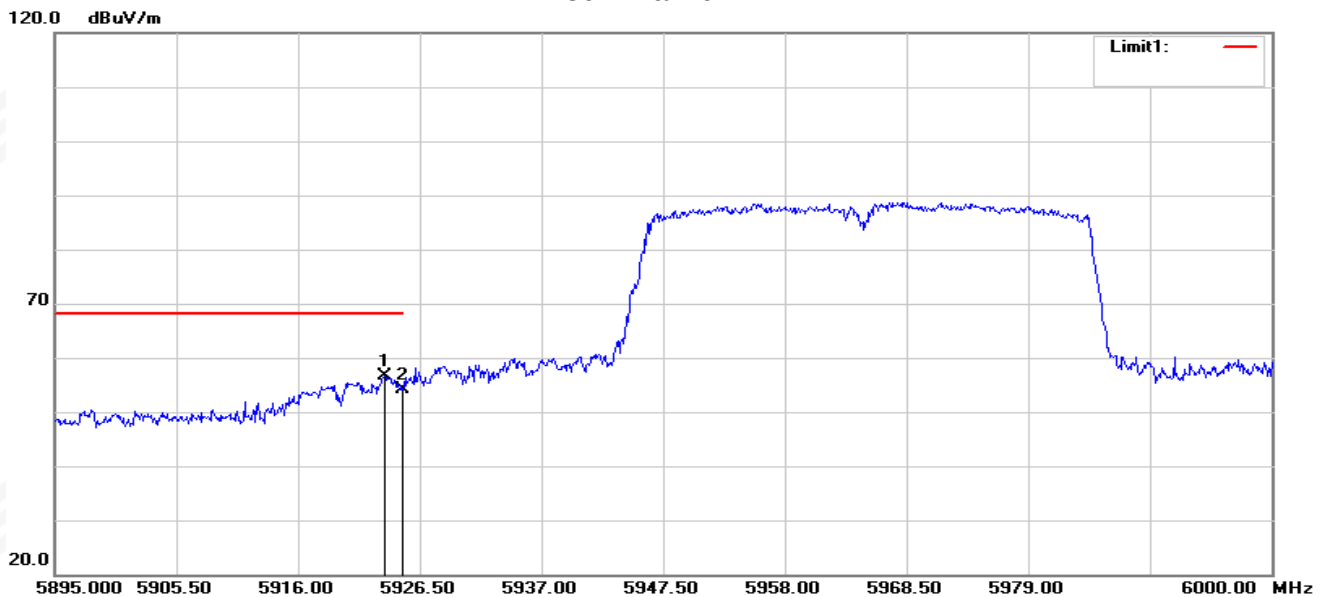


802.11ax40-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5918.415	55.34	-3.60	51.74	68.20	-16.46	peak
2	5925.000	53.25	-3.59	49.66	68.20	-18.54	peak

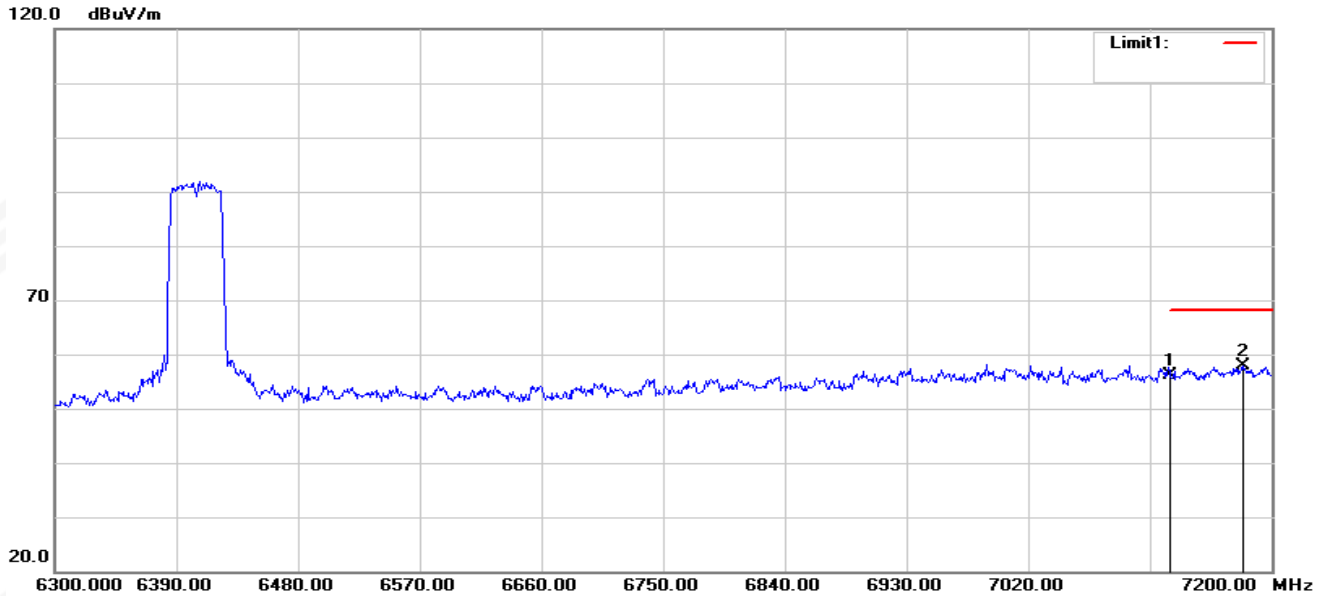
802.11ax40-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5923.455	60.32	-3.59	56.73	68.20	-11.47	peak
2	5925.000	57.64	-3.59	54.05	68.20	-14.15	peak

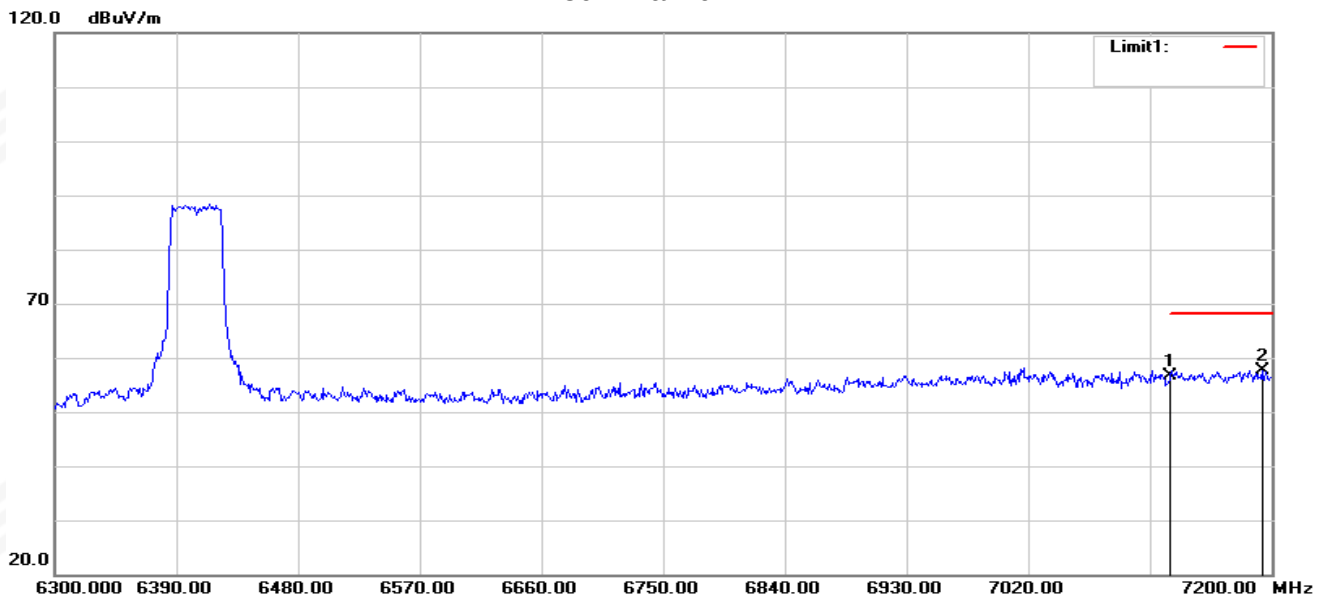


802.11ax40-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.12	2.10	56.22	68.20	-11.98	peak
2	7178.400	55.64	2.15	57.79	68.20	-10.41	peak

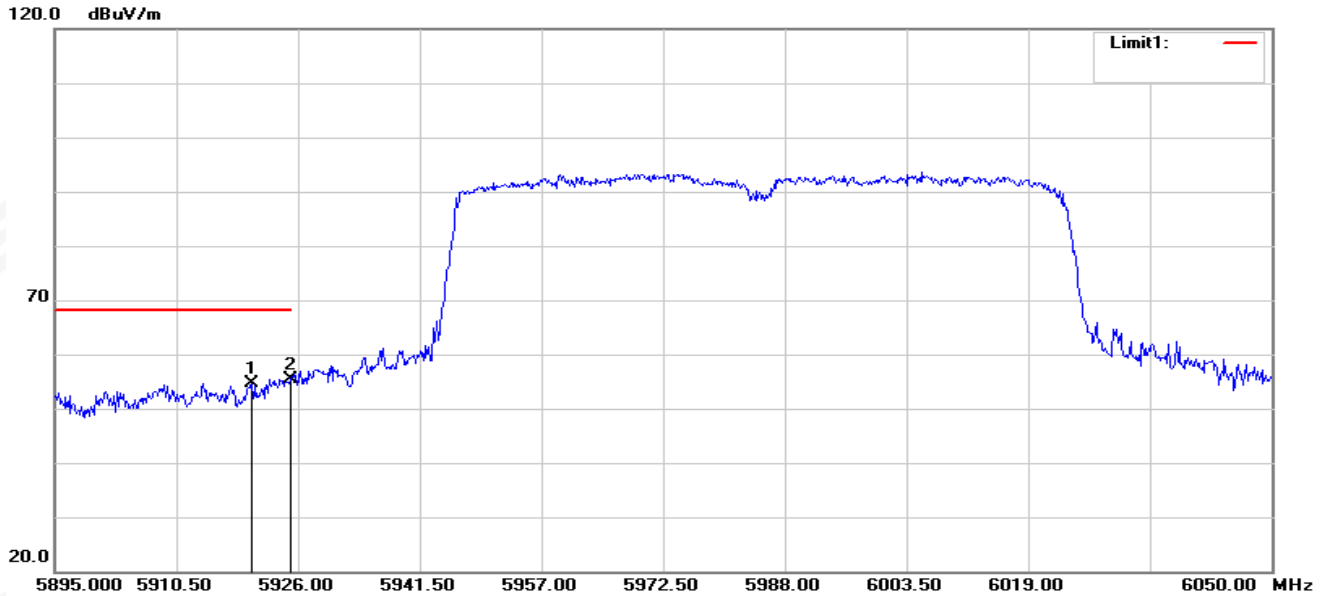
802.11ax40-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.65	2.10	56.75	68.20	-11.45	peak
2	7192.800	55.51	2.16	57.67	68.20	-10.53	peak

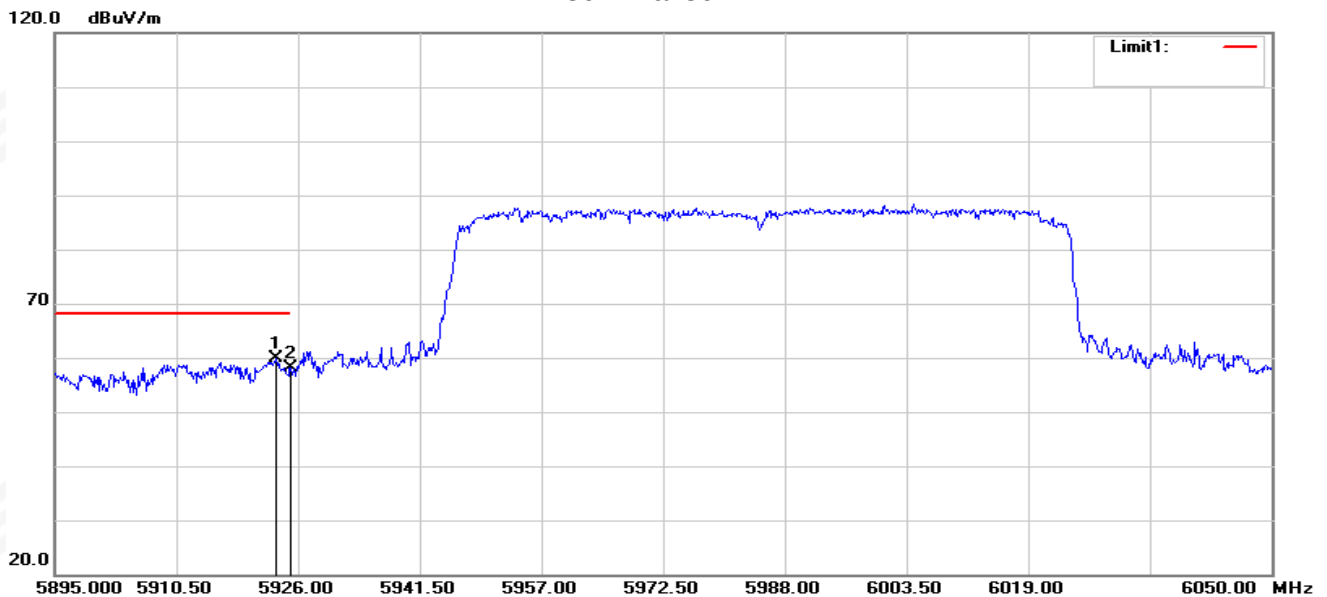


802.11ax80-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5920.110	58.30	-3.60	54.70	68.20	-13.50	peak
2	5925.000	59.06	-3.59	55.47	68.20	-12.73	peak

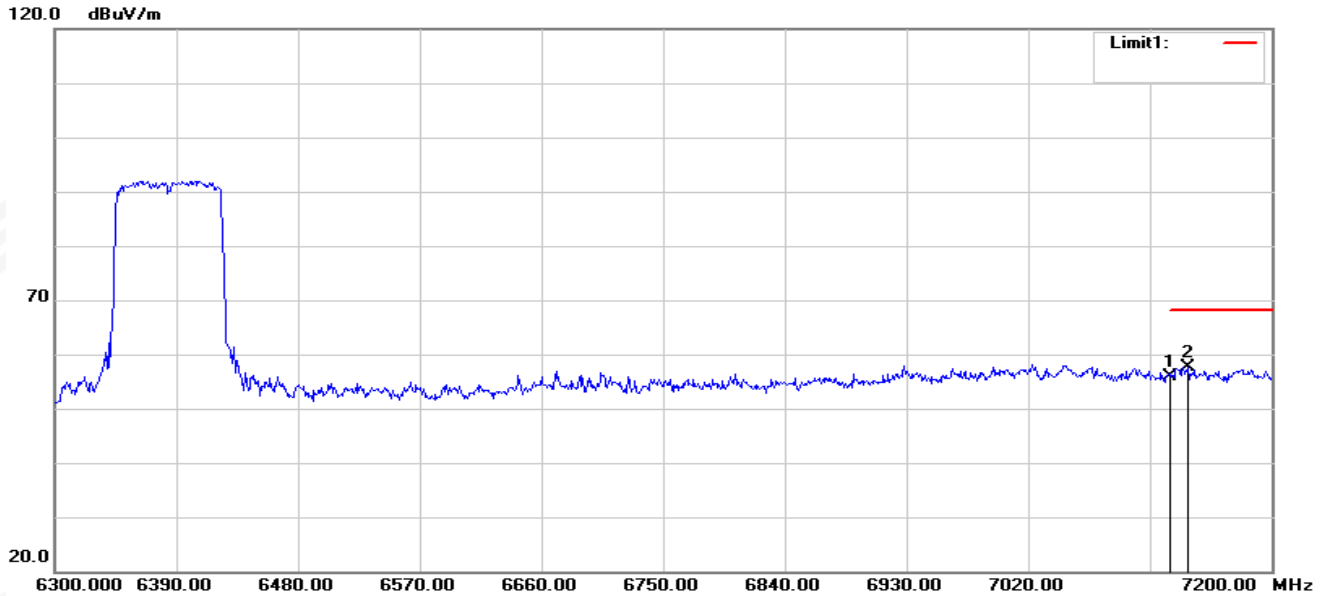
802.11ax80-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5923.210	63.37	-3.59	59.78	68.20	-8.42	peak
2	5925.000	61.60	-3.59	58.01	68.20	-10.19	peak

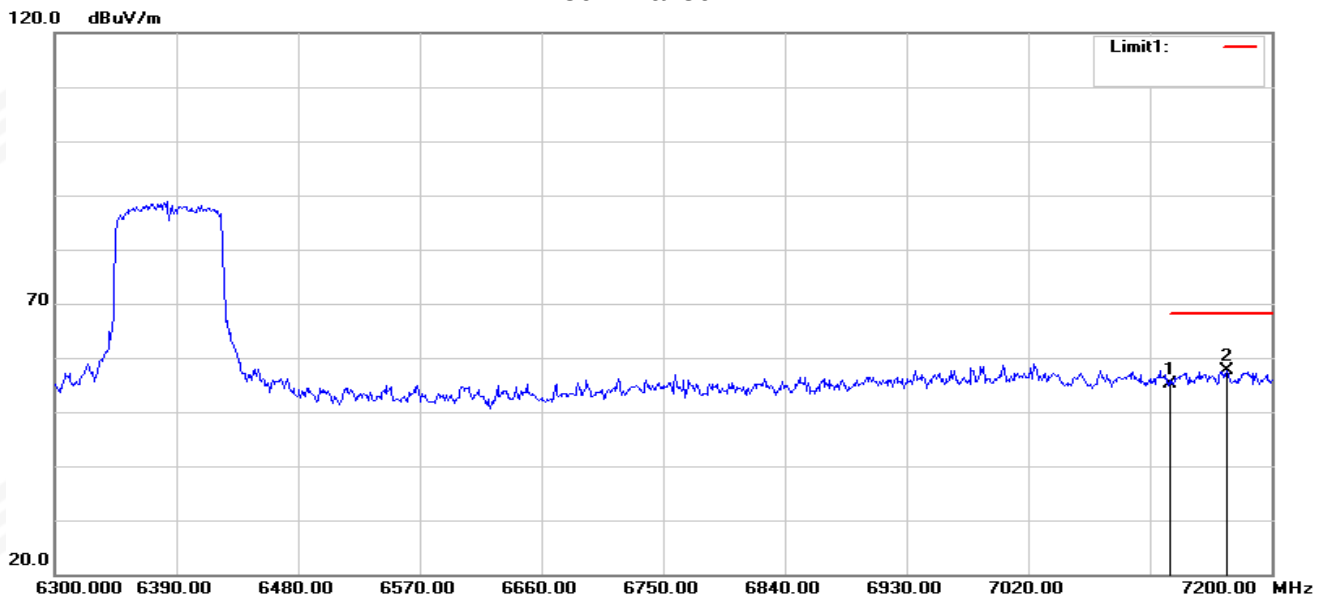


802.11ax80-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	53.81	2.10	55.91	68.20	-12.29	peak
2	7137.900	55.50	2.11	57.61	68.20	-10.59	peak

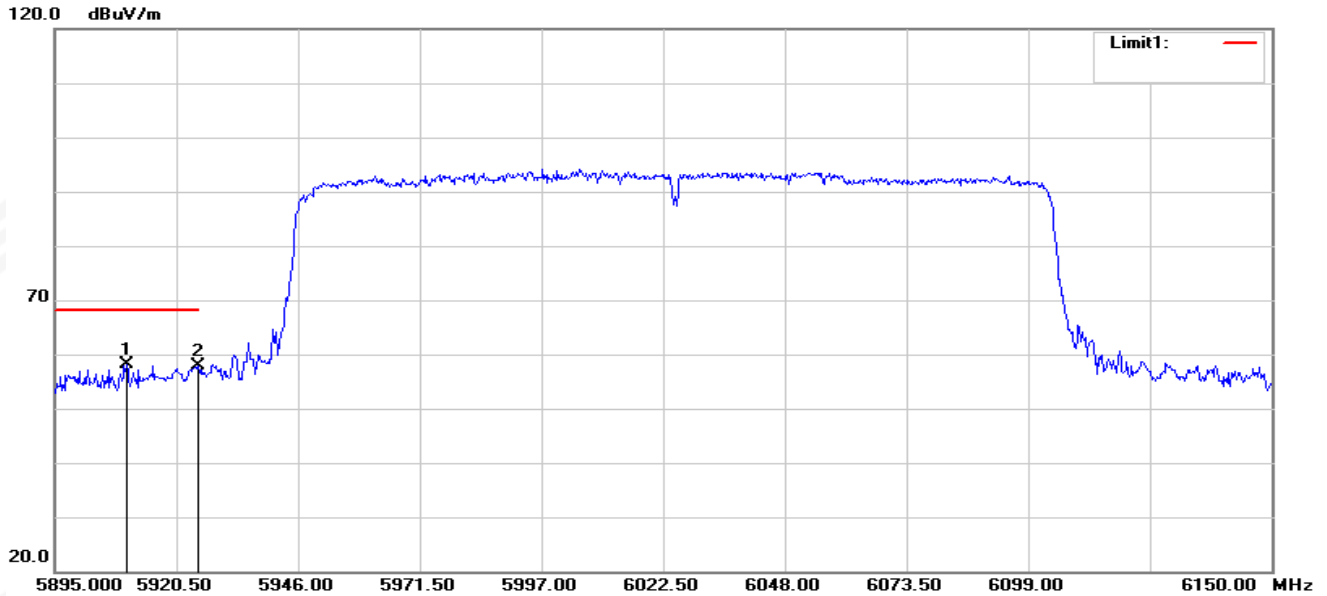
802.11ax80-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	53.04	2.10	55.14	68.20	-13.06	peak
2	7166.700	55.56	2.13	57.69	68.20	-10.51	peak

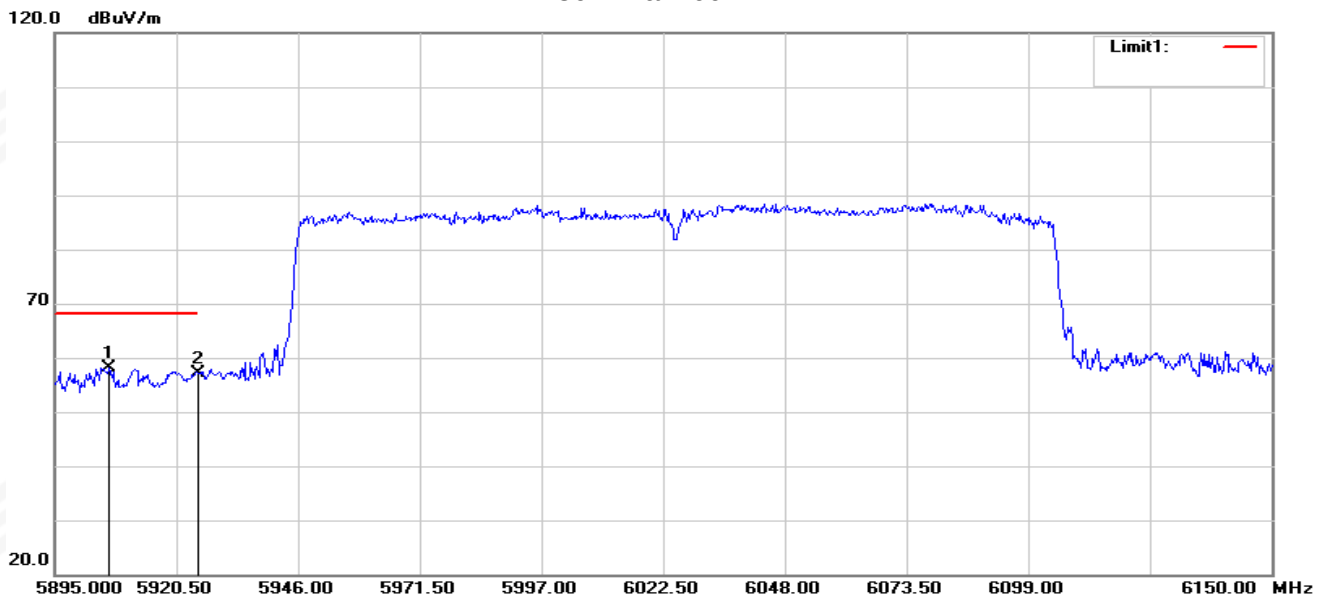


802.11ax160-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5910.045	61.75	-3.60	58.15	68.20	-10.05	peak
2	5925.000	61.44	-3.59	57.85	68.20	-10.35	peak

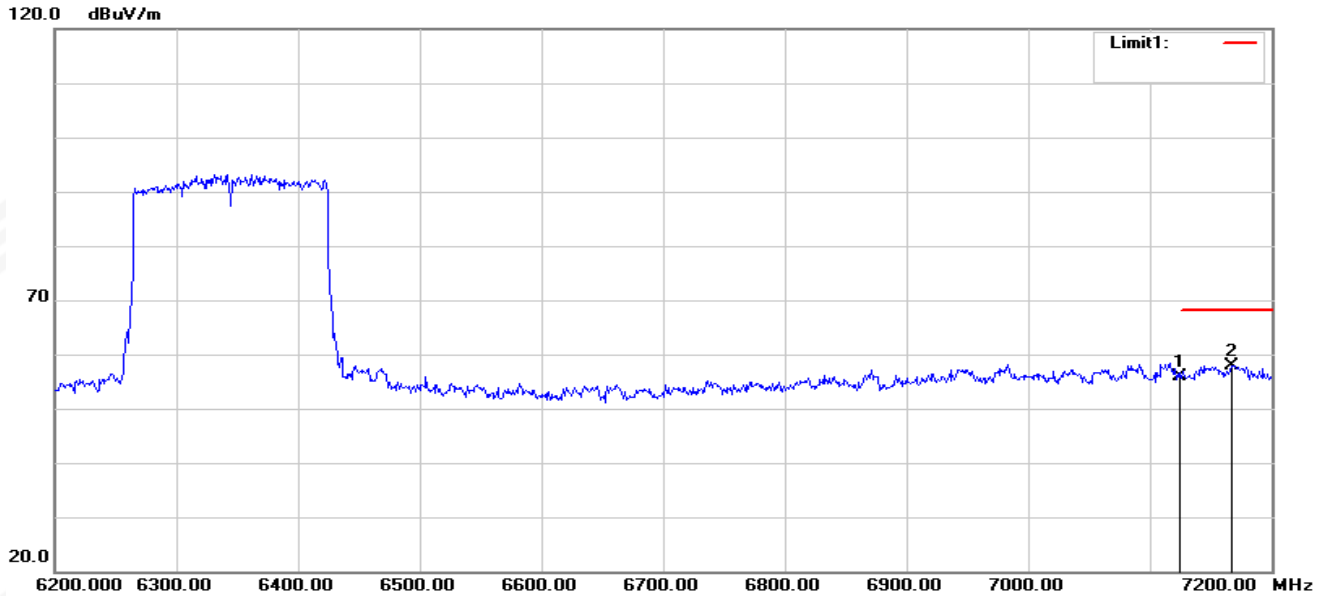
802.11ax160-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5906.475	61.82	-3.61	58.21	68.20	-9.99	peak
2	5925.000	60.82	-3.59	57.23	68.20	-10.97	peak

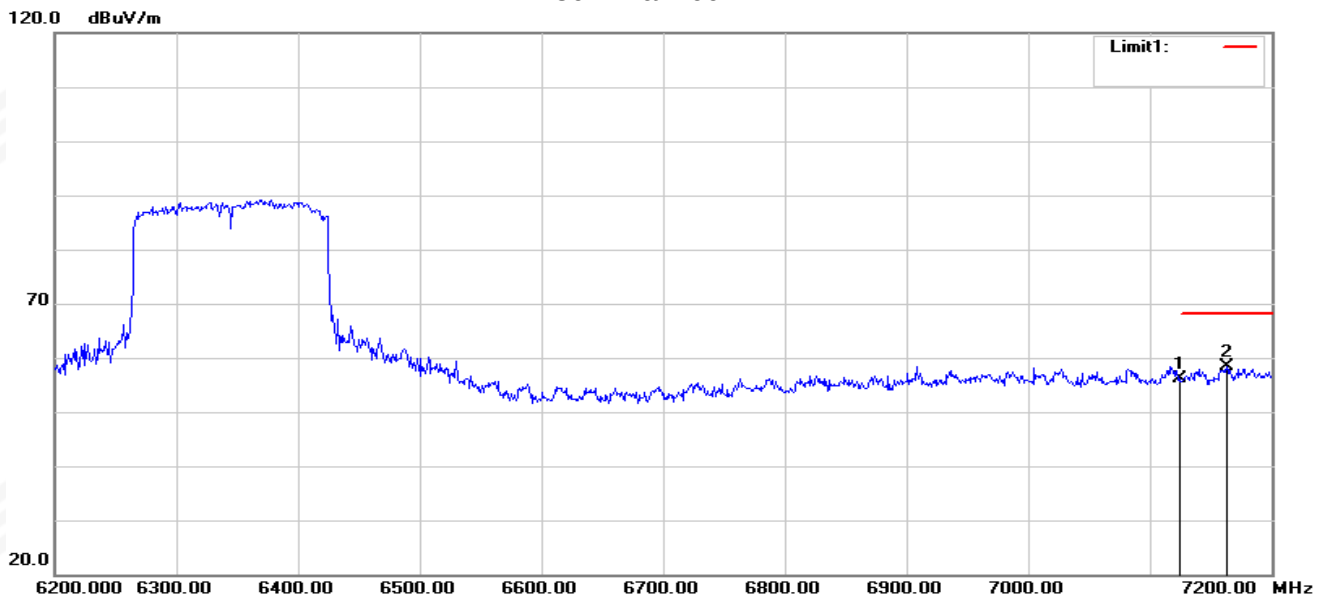


802.11ax160-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	53.73	2.10	55.83	68.20	-12.37	peak
2	7167.000	55.86	2.13	57.99	68.20	-10.21	peak

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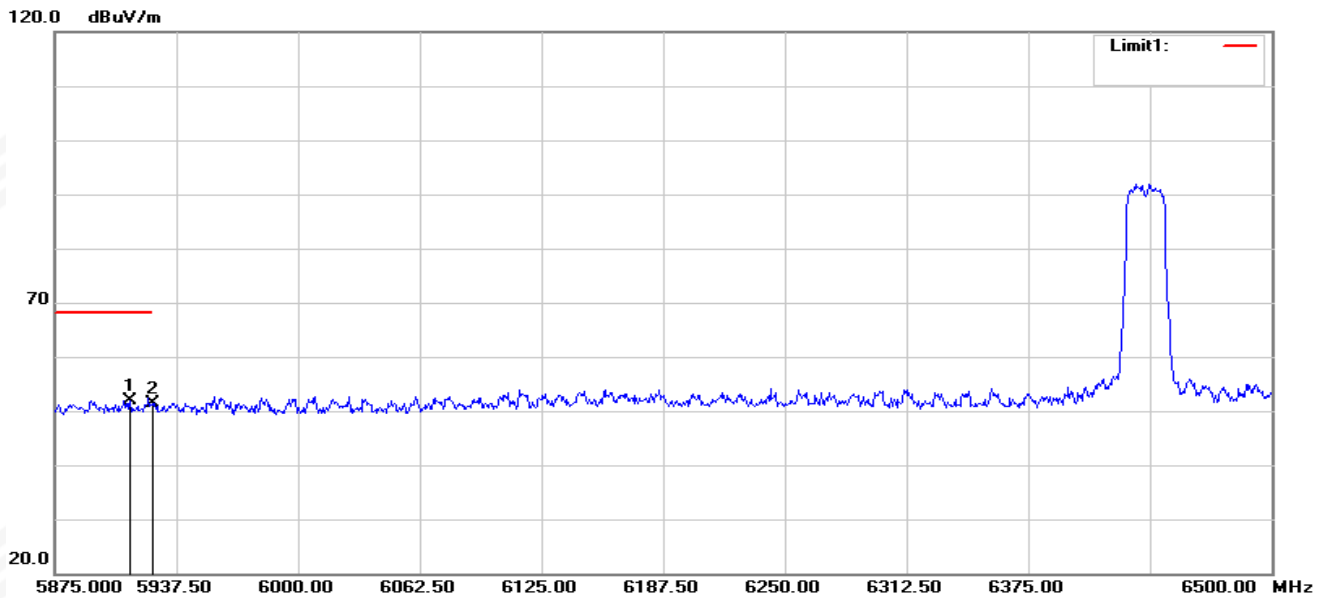


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.09	2.10	56.19	68.20	-12.01	peak
2	7163.000	56.26	2.13	58.39	68.20	-9.81	peak

Remark:

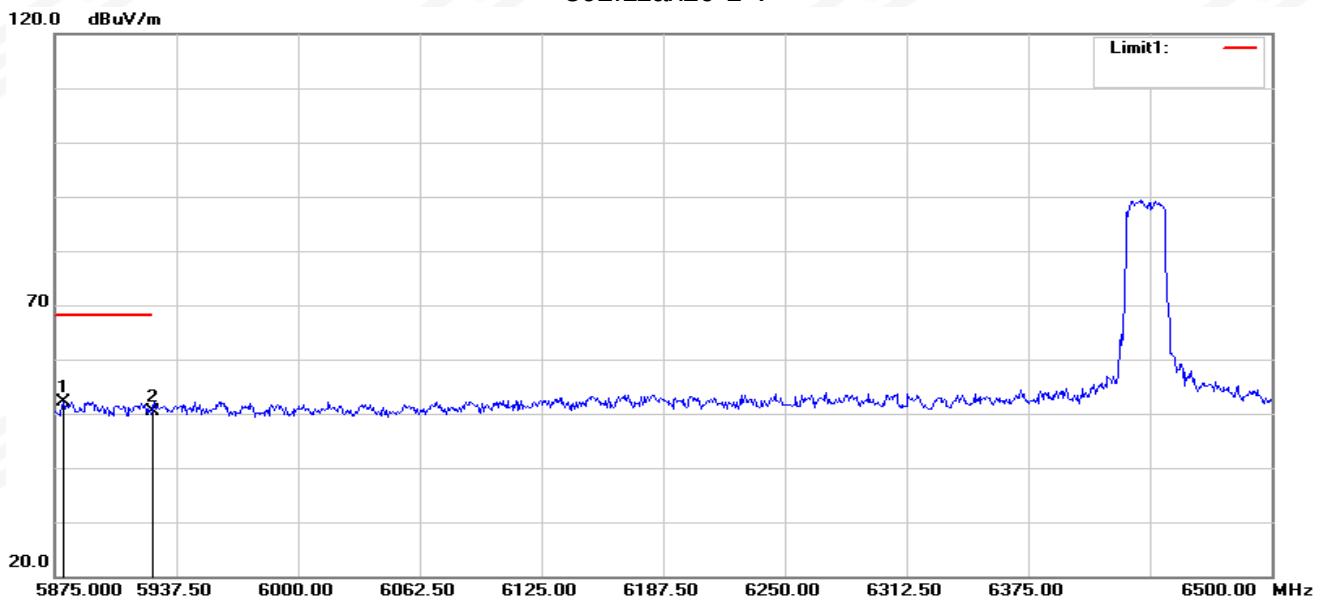
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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

U-NII-6
802.11ax20-L-H

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5913.750	55.47	-3.60	51.87	68.20	-16.33	peak
2	5925.000	55.08	-3.59	51.49	68.20	-16.71	peak

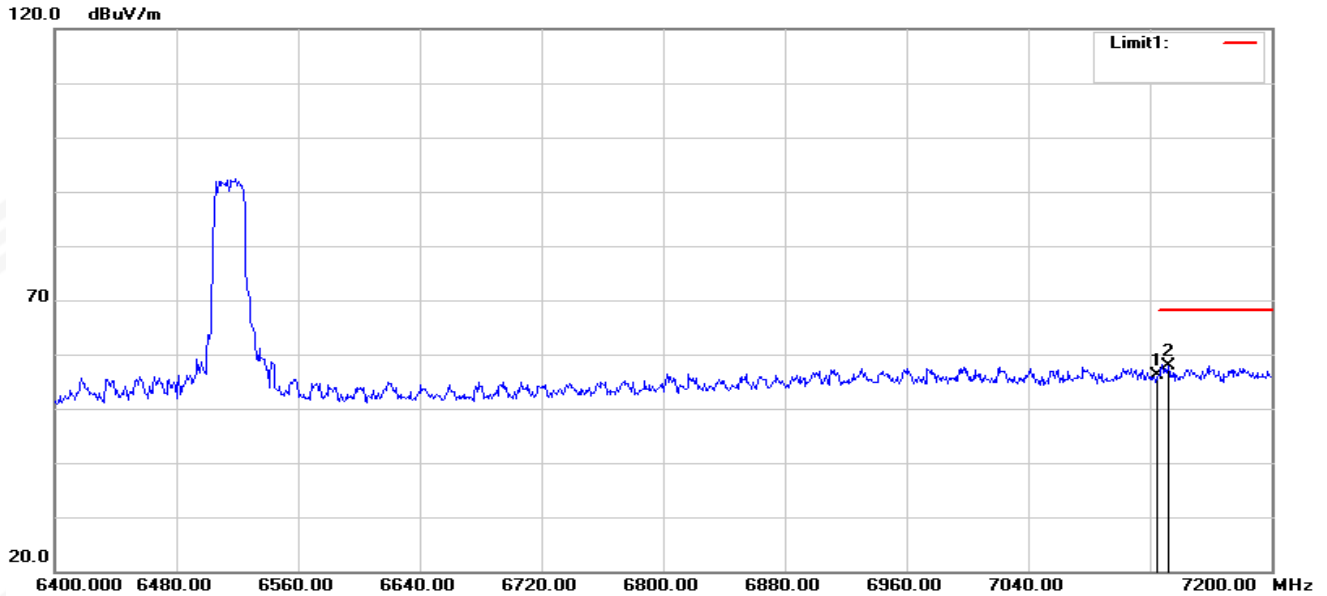
802.11ax20-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5879.375	55.95	-3.70	52.25	68.20	-15.95	peak
2	5925.000	53.97	-3.59	50.38	68.20	-17.82	peak

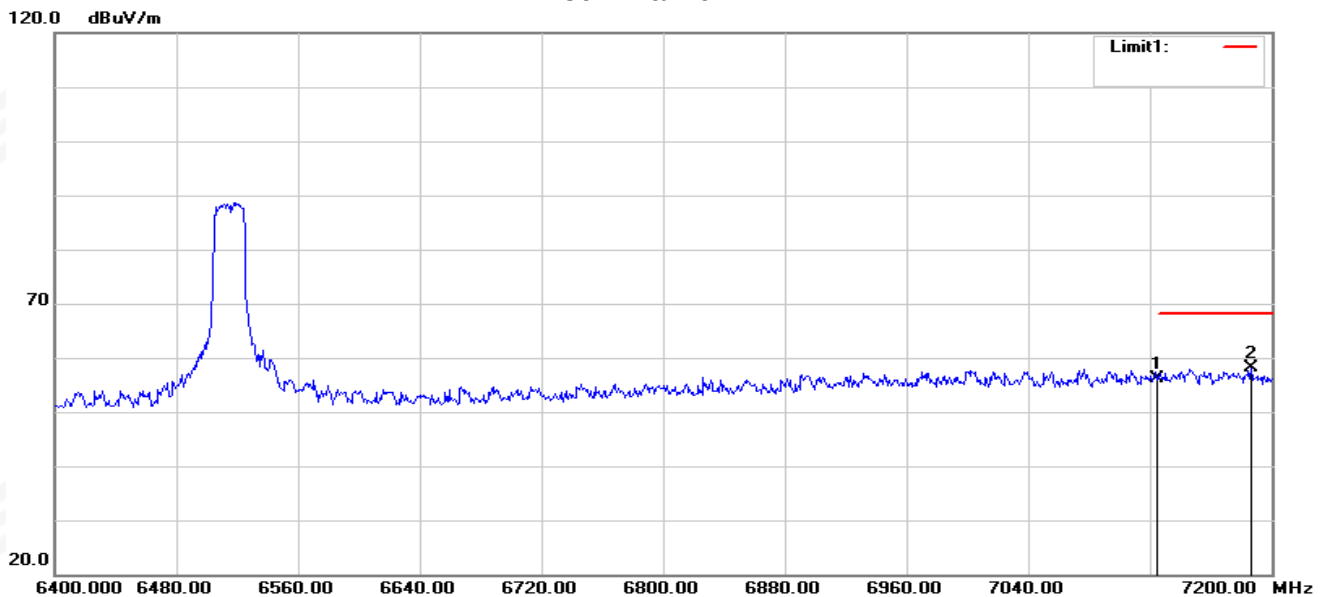


802.11ax20-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.11	2.10	56.21	68.20	-11.99	peak
2	7132.000	55.71	2.11	57.82	68.20	-10.38	peak

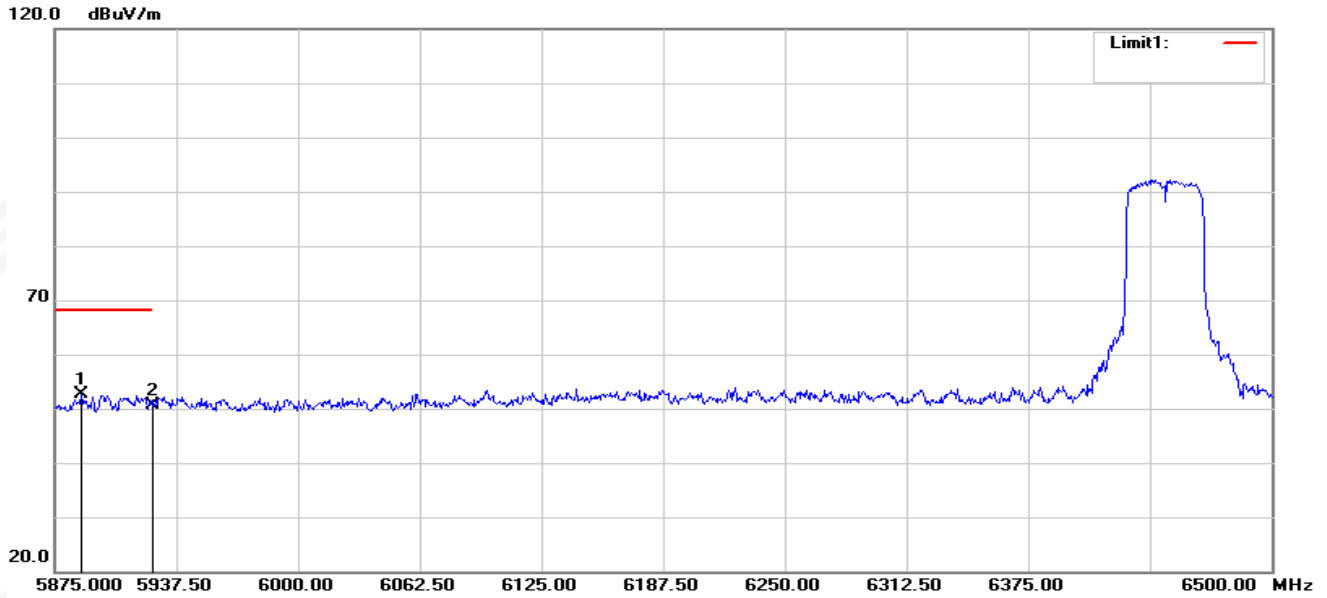
802.11ax20-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	53.94	2.10	56.04	68.20	-12.16	peak
2	7186.400	55.86	2.15	58.01	68.20	-10.19	peak

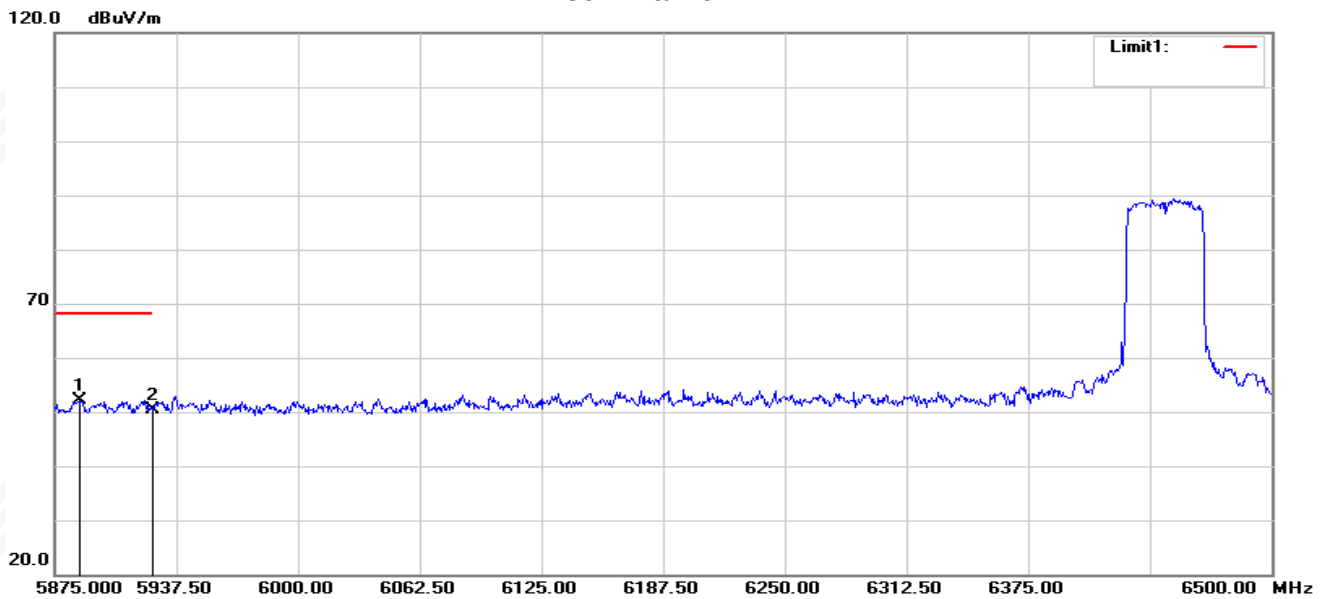


802.11ax40-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5888.750	56.34	-3.67	52.67	68.20	-15.53	peak
2	5925.000	54.26	-3.59	50.67	68.20	-17.53	peak

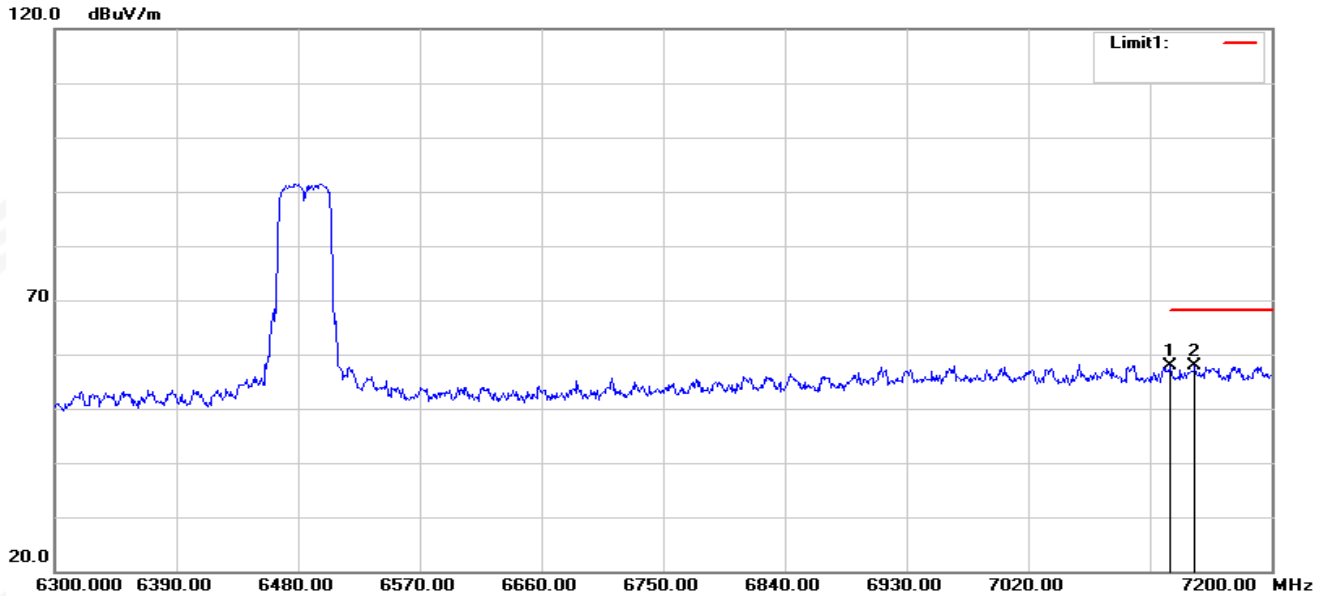
802.11ax40-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5888.125	55.87	-3.67	52.20	68.20	-16.00	peak
2	5925.000	53.85	-3.59	50.26	68.20	-17.94	peak

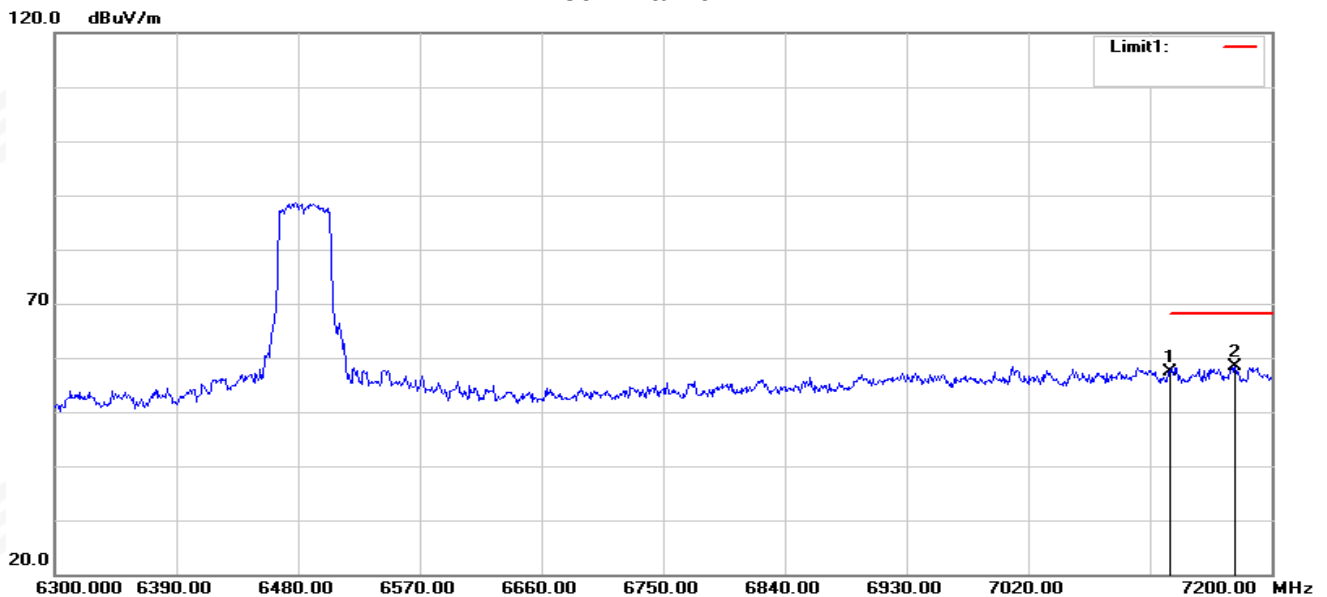


802.11ax40-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	55.79	2.10	57.89	68.20	-10.31	peak
2	7143.300	55.79	2.11	57.90	68.20	-10.30	peak

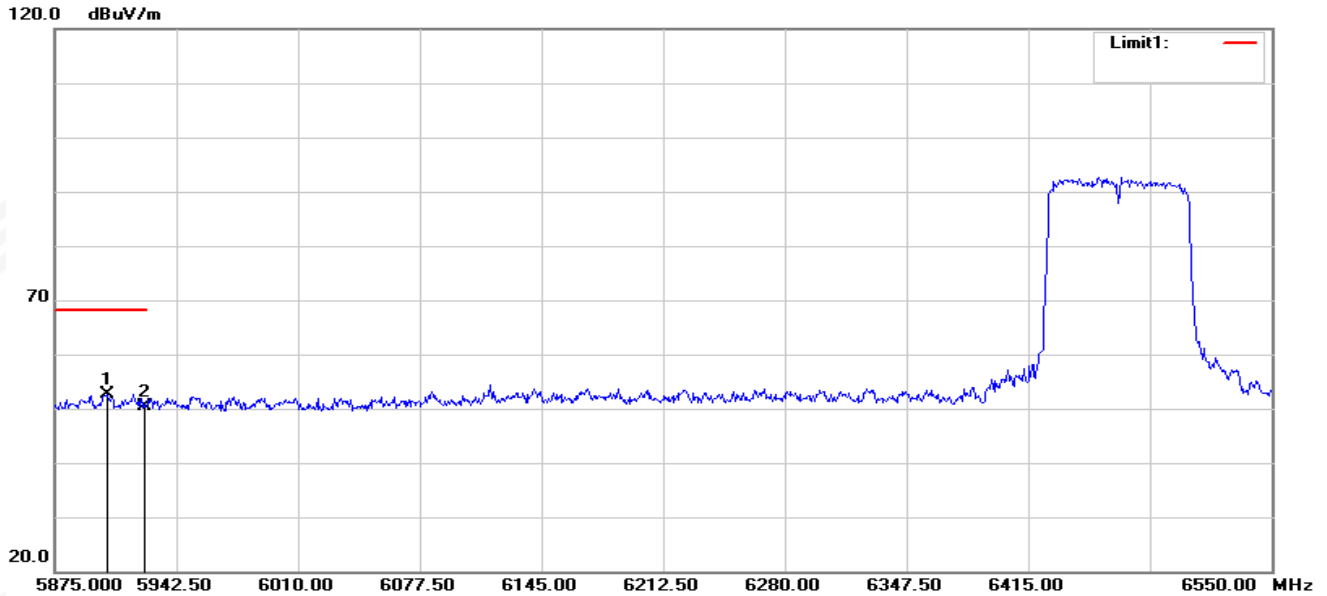
802.11ax40-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	55.23	2.10	57.33	68.20	-10.87	peak
2	7173.000	56.12	2.14	58.26	68.20	-9.94	peak

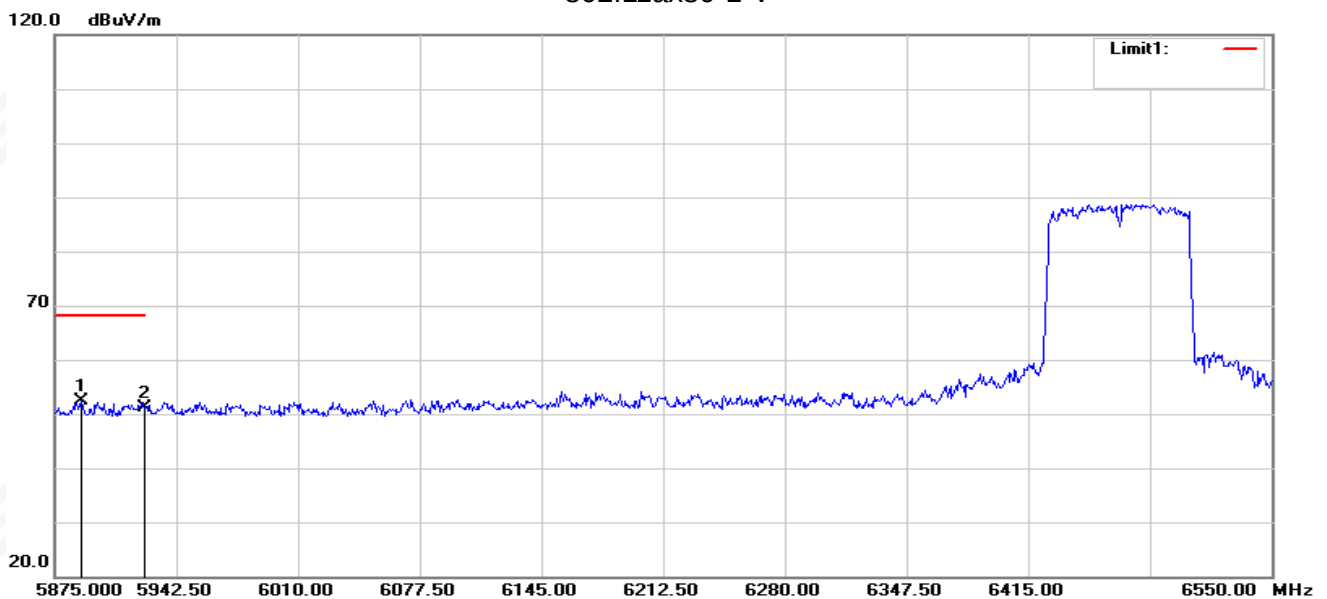


802.11ax80-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5904.025	56.17	-3.61	52.56	68.20	-15.64	peak
2	5925.000	54.01	-3.59	50.42	68.20	-17.78	peak

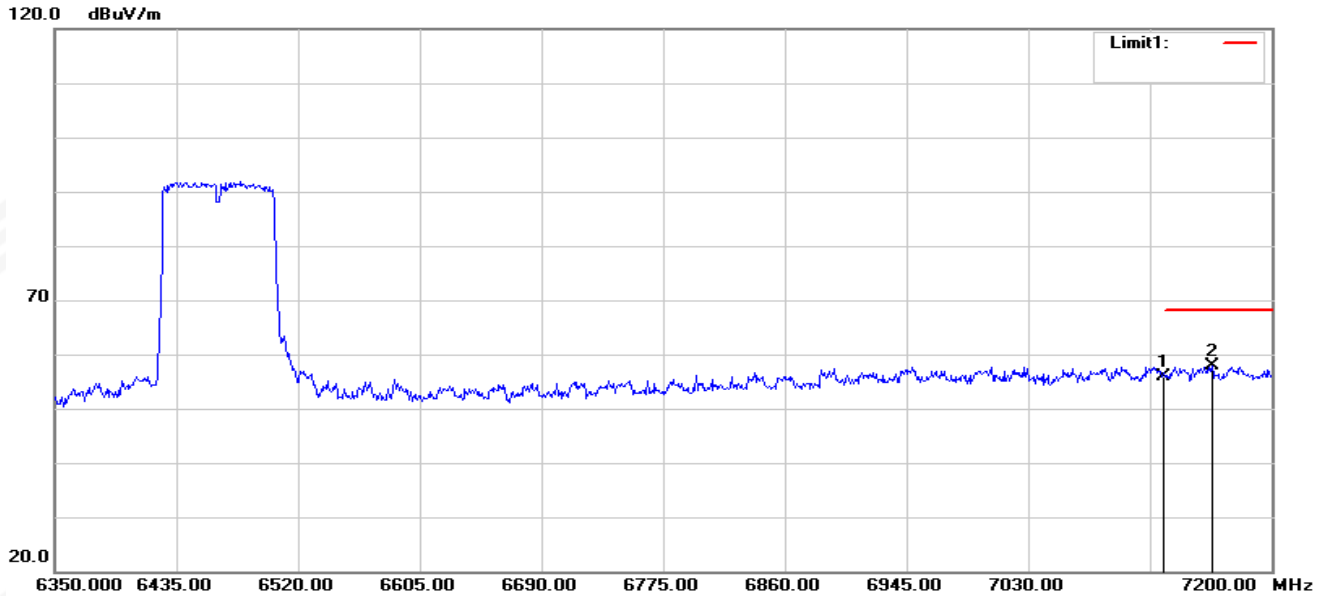
802.11ax80-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5889.850	56.09	-3.66	52.43	68.20	-15.77	peak
2	5925.000	54.63	-3.59	51.04	68.20	-17.16	peak

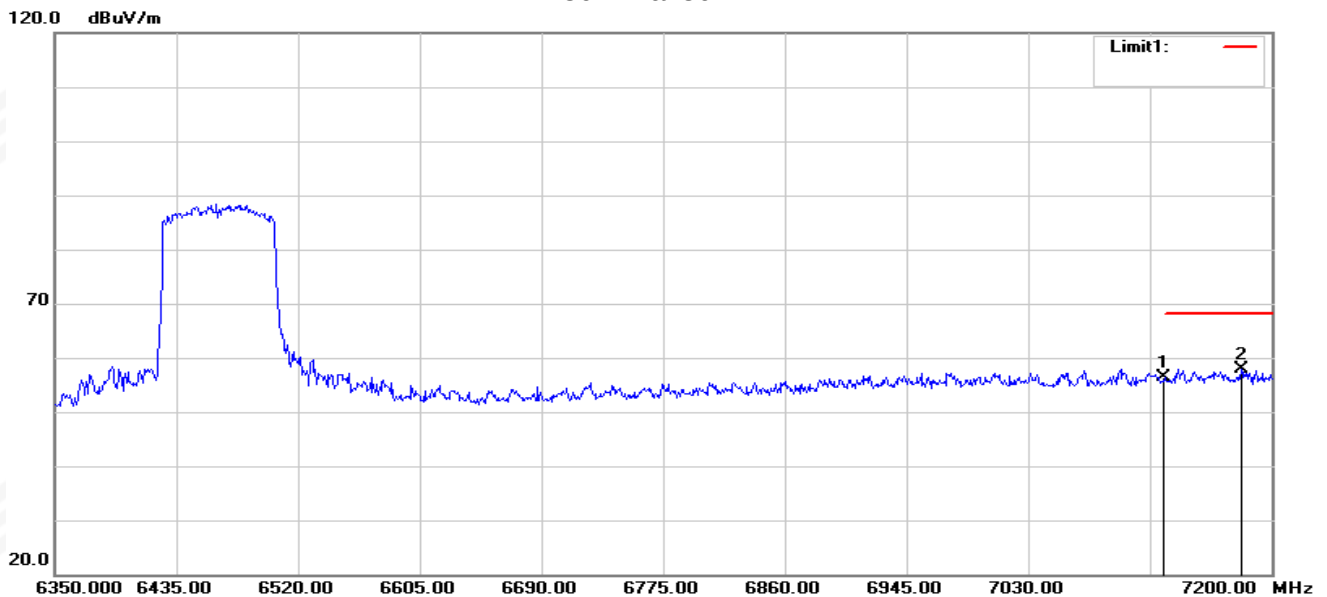


802.11ax80-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	53.80	2.10	55.90	68.20	-12.30	peak
2	7158.350	55.63	2.13	57.76	68.20	-10.44	peak

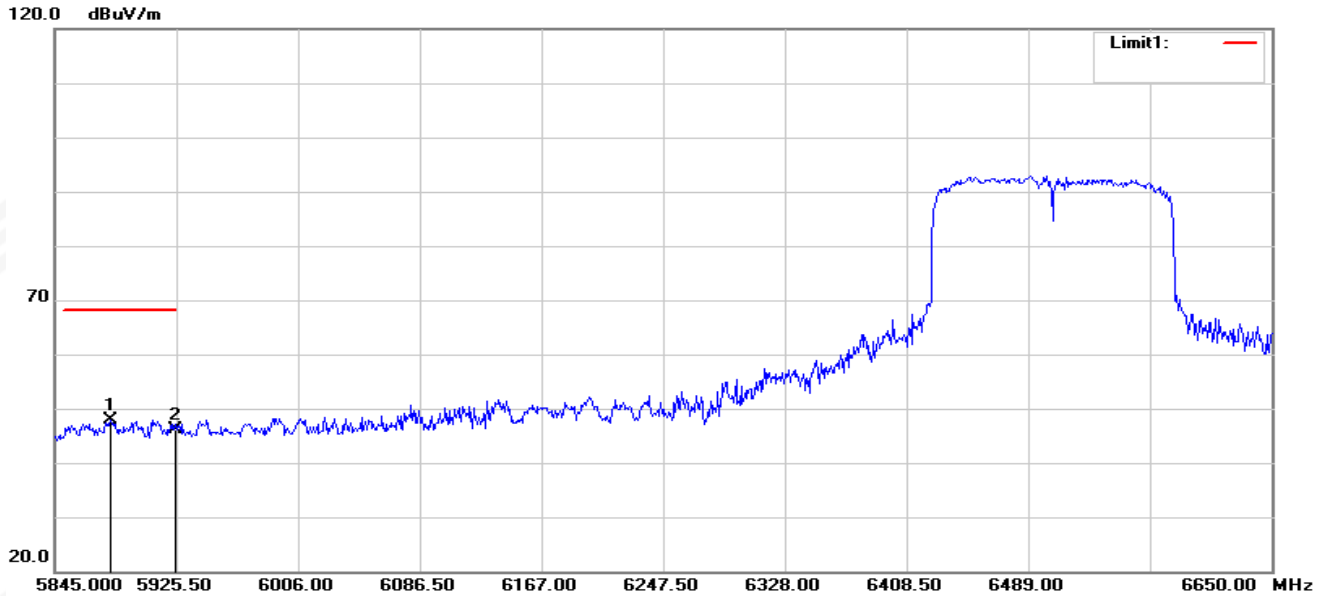
802.11ax80-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.24	2.10	56.34	68.20	-11.86	peak
2	7178.750	55.73	2.14	57.87	68.20	-10.33	peak

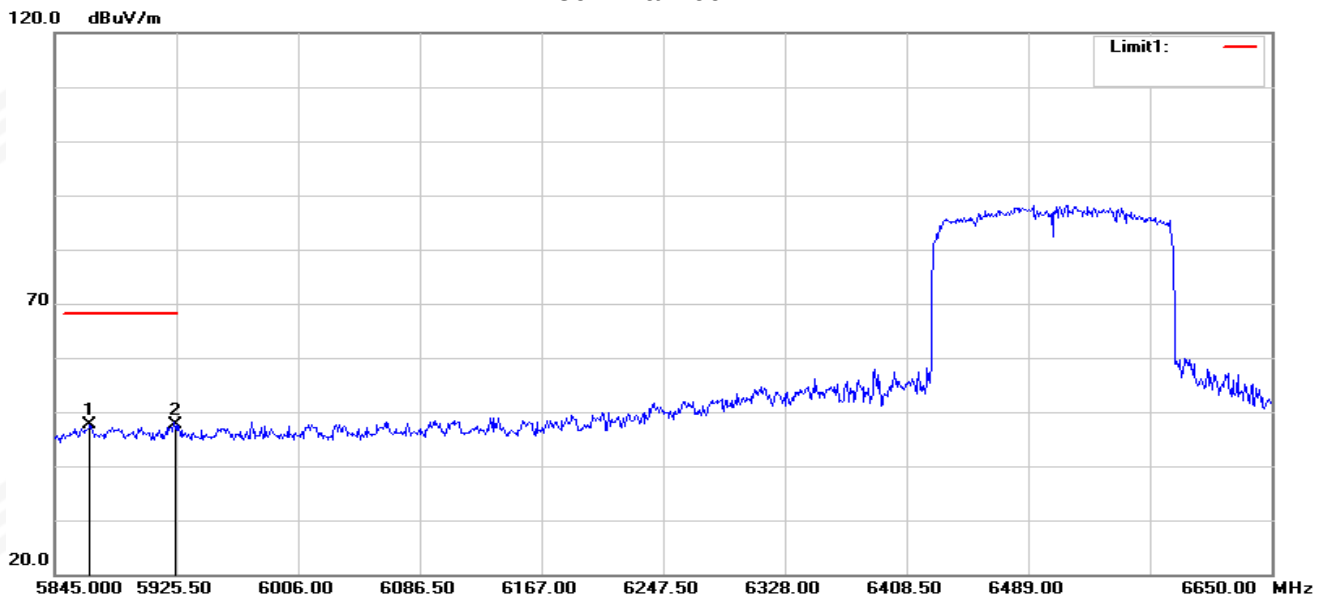


802.11ax160-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5882.030	51.54	-3.69	47.85	68.20	-20.35	peak
2	5925.000	49.73	-3.59	46.14	68.20	-22.06	peak

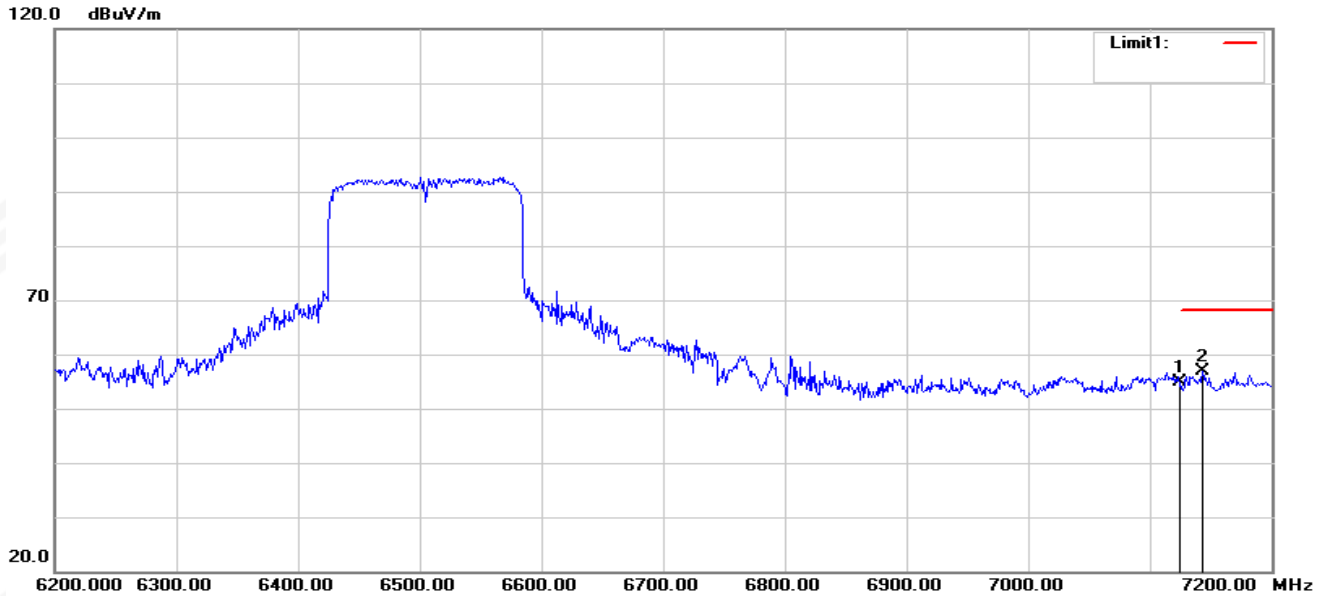
802.11ax160-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5868.345	51.37	-3.75	47.62	68.20	-20.58	peak
2	5925.000	51.21	-3.59	47.62	68.20	-20.58	peak

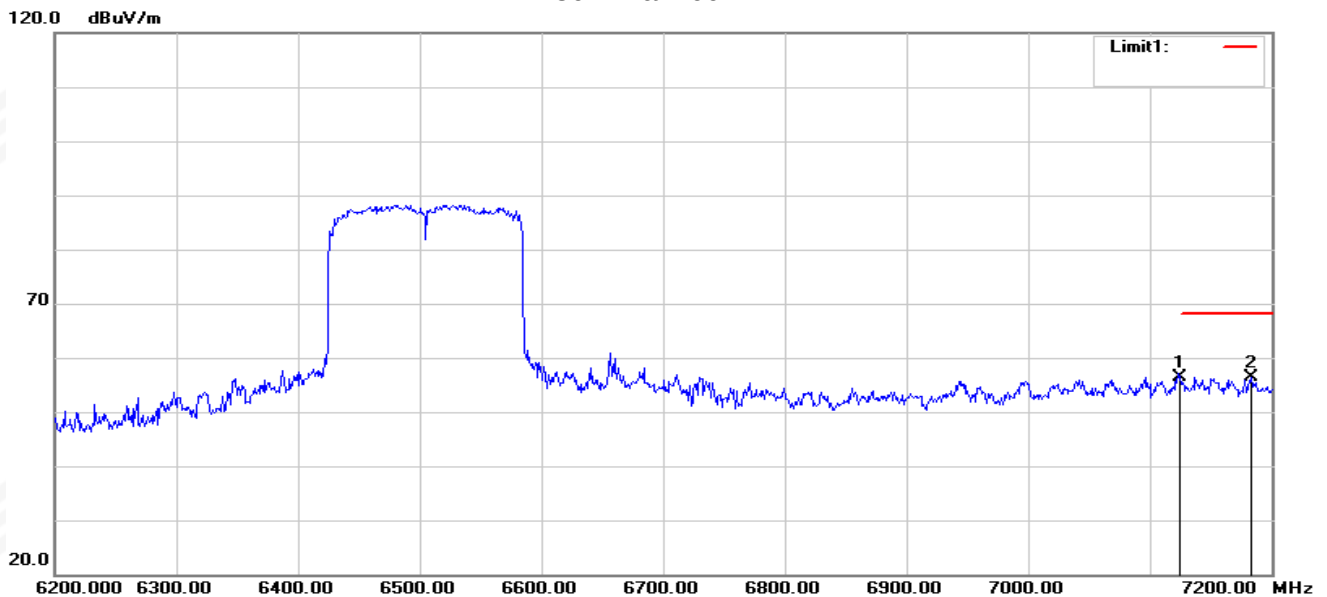


802.11ax160-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	52.76	2.10	54.86	68.20	-13.34	peak
2	7143.000	54.72	2.11	56.83	68.20	-11.37	peak

802.11ax160-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.18	2.10	56.28	68.20	-11.92	peak
2	7183.000	54.22	2.14	56.36	68.20	-11.84	peak

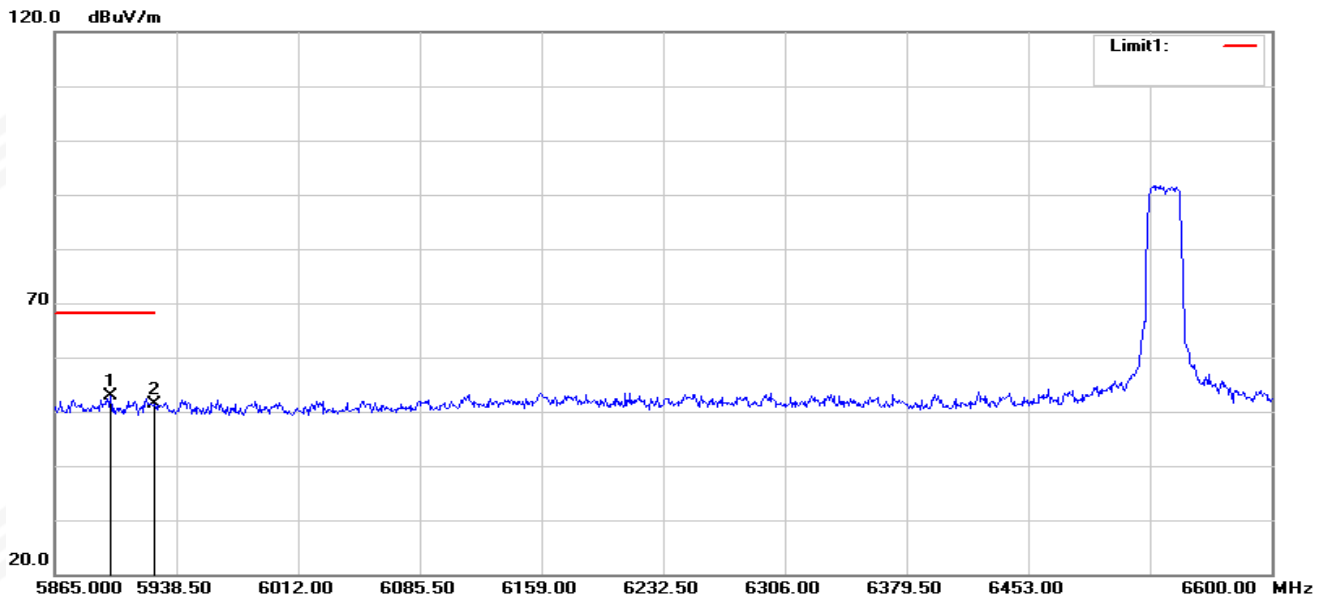
Remark:

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



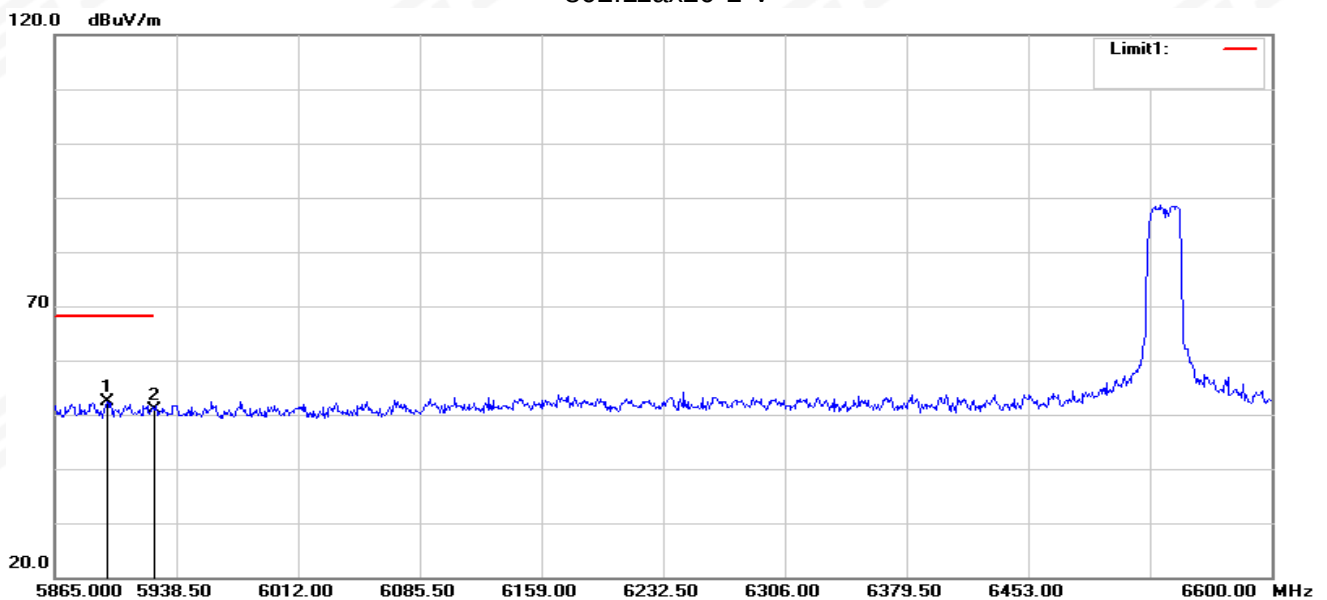
U-NII-7

802.11ax20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5898.810	56.40	-3.62	52.78	68.20	-15.42	peak
2	5925.000	54.85	-3.59	51.26	68.20	-16.94	peak

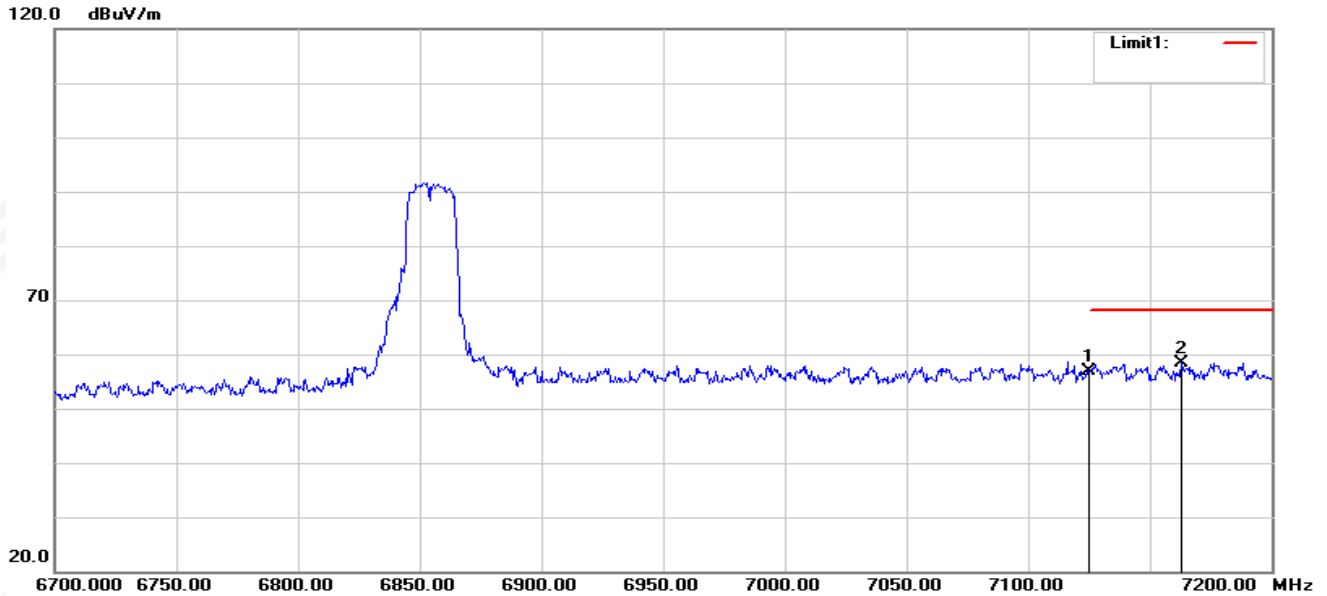
802.11ax20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5896.605	55.98	-3.64	52.34	68.20	-15.86	peak
2	5925.000	54.40	-3.59	50.81	68.20	-17.39	peak

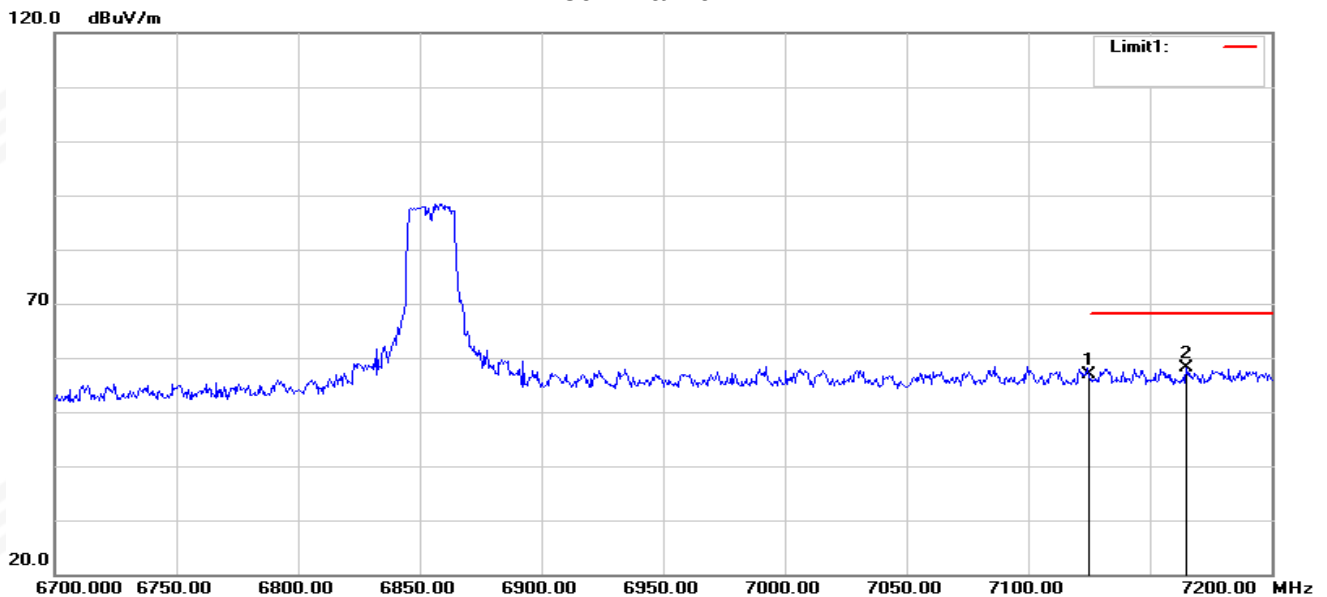


802.11ax20-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.88	2.10	56.98	68.20	-11.22	peak
2	7163.000	56.26	2.13	58.39	68.20	-9.81	peak

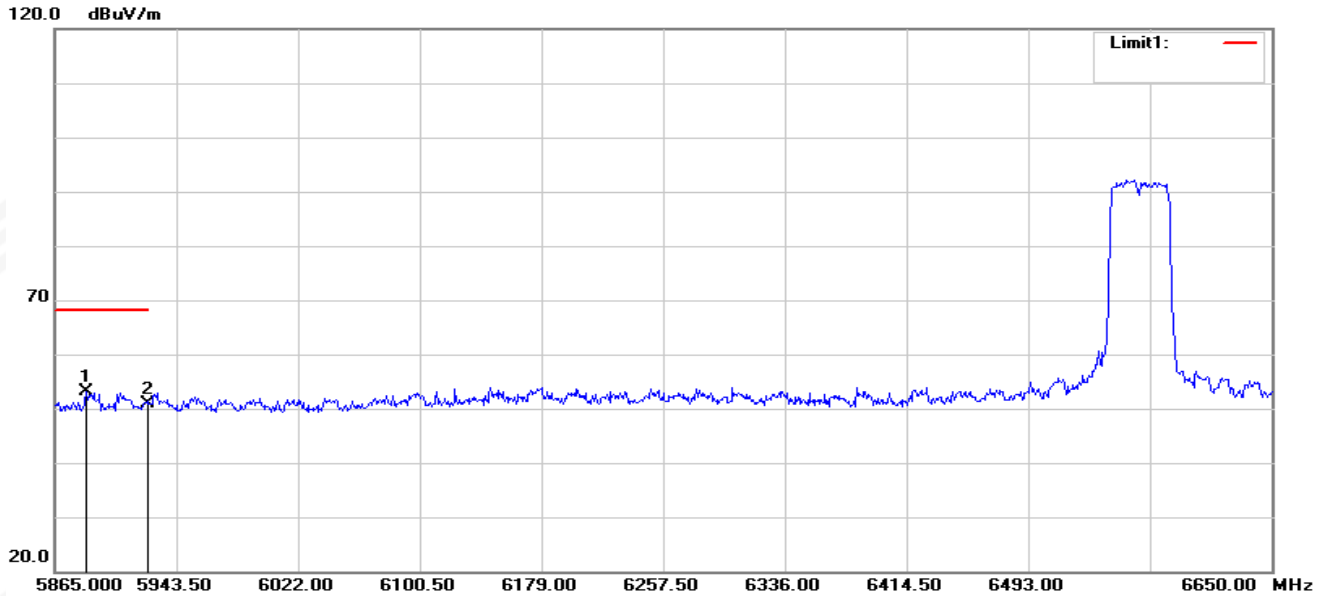
802.11ax20-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.77	2.10	56.87	68.20	-11.33	peak
2	7165.000	56.06	2.13	58.19	68.20	-10.01	peak

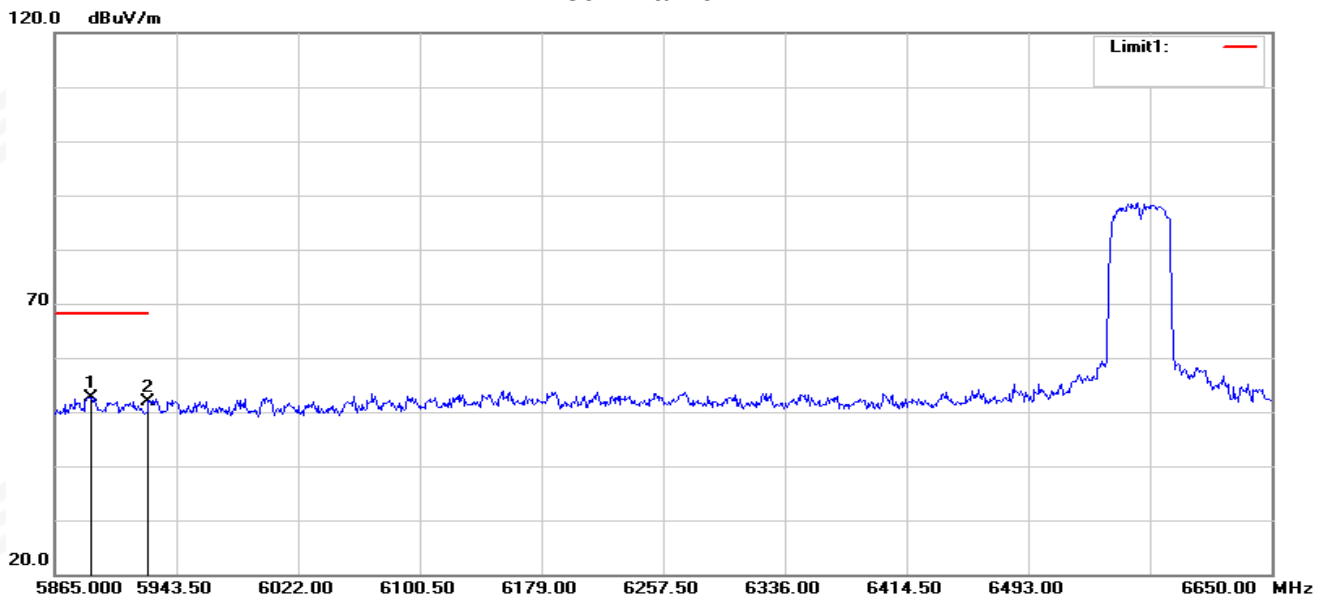


802.11ax40-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5885.410	56.88	-3.68	53.20	68.20	-15.00	peak
2	5925.000	54.38	-3.59	50.79	68.20	-17.41	peak

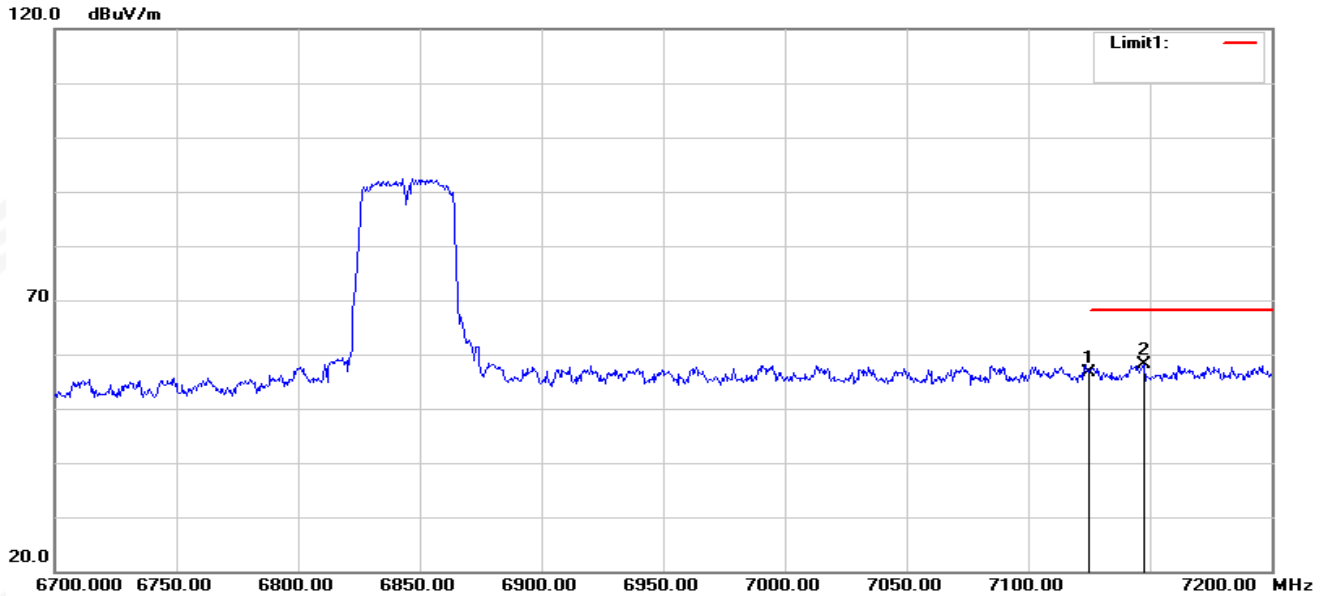
802.11ax40-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5888.550	56.42	-3.67	52.75	68.20	-15.45	peak
2	5925.000	55.35	-3.59	51.76	68.20	-16.44	peak

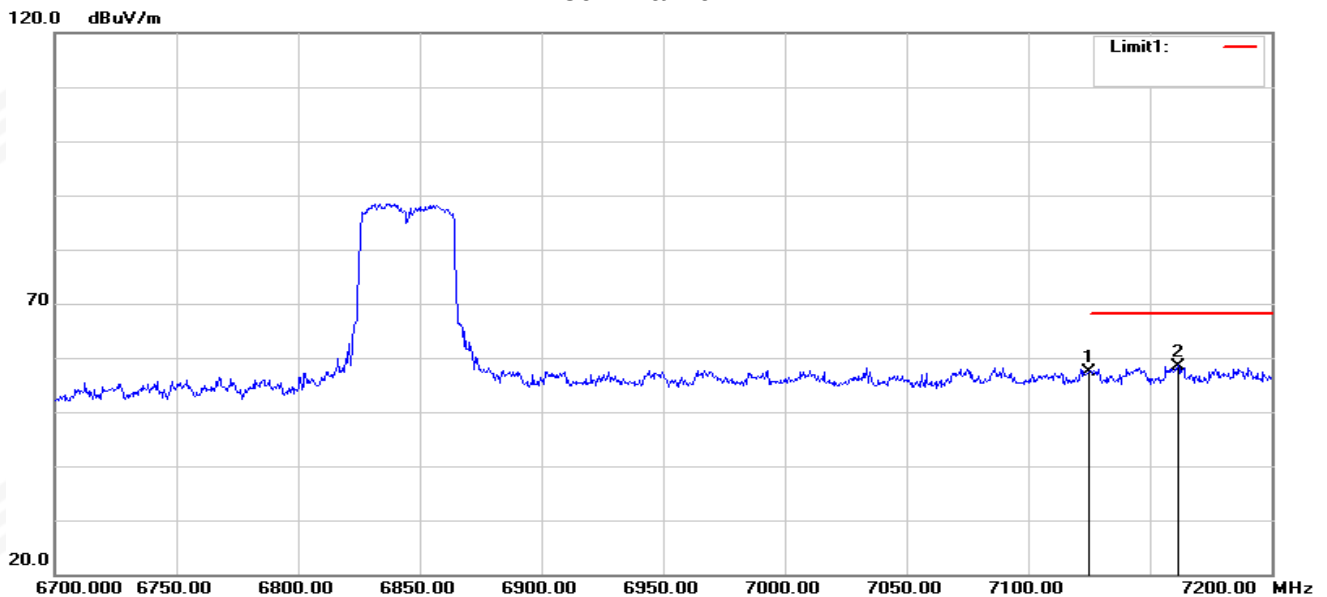


802.11ax40-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.43	2.10	56.53	68.20	-11.67	peak
2	7147.500	55.97	2.12	58.09	68.20	-10.11	peak

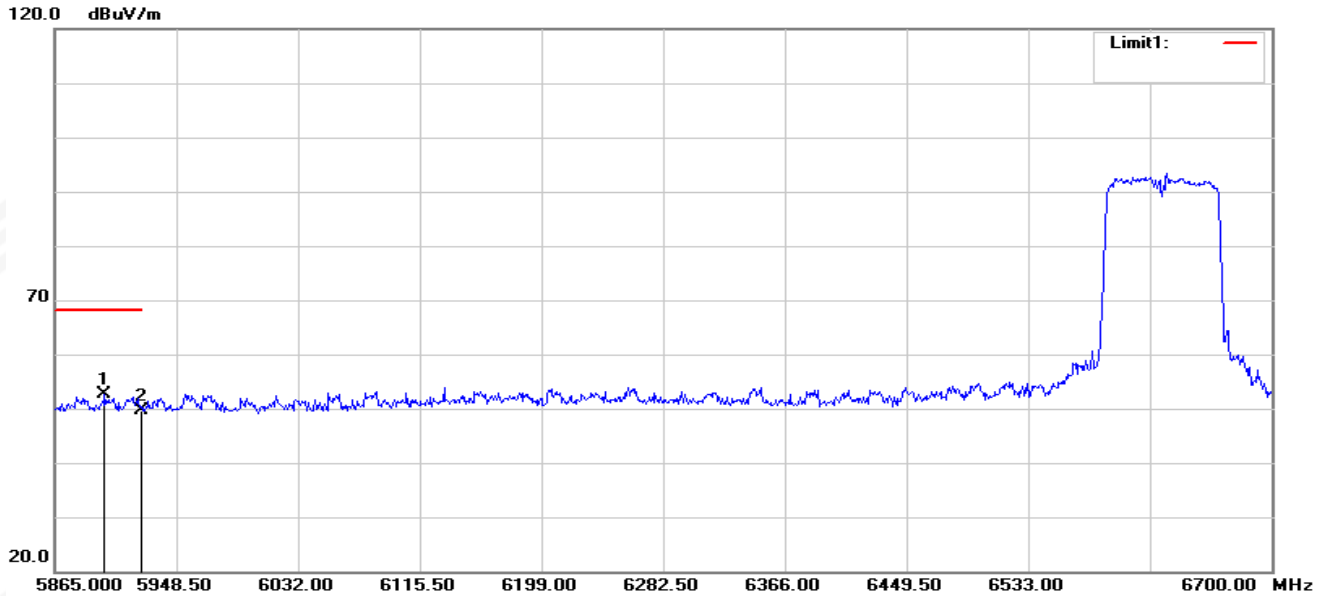
802.11ax40-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	55.26	2.10	57.36	68.20	-10.84	peak
2	7161.500	56.37	2.13	58.50	68.20	-9.70	peak

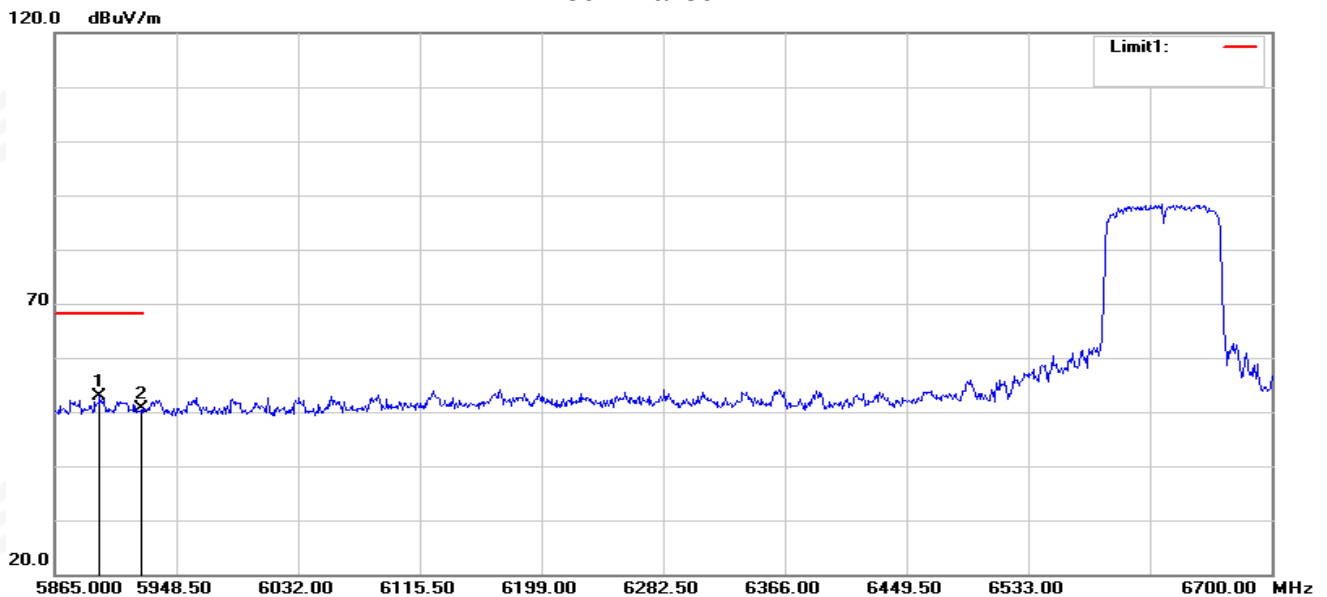


802.11ax80-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5899.235	56.33	-3.62	52.71	68.20	-15.49	peak
2	5925.000	53.32	-3.59	49.73	68.20	-18.47	peak

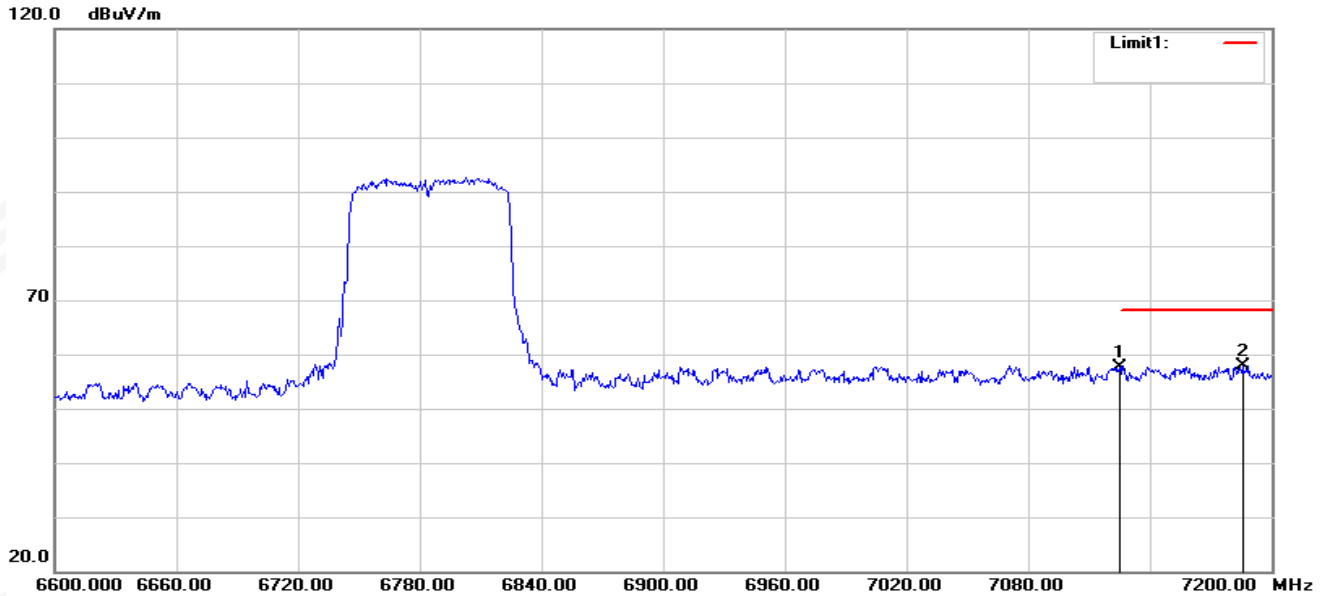
802.11ax80-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5895.895	56.54	-3.64	52.90	68.20	-15.30	peak
2	5925.000	54.24	-3.59	50.65	68.20	-17.55	peak

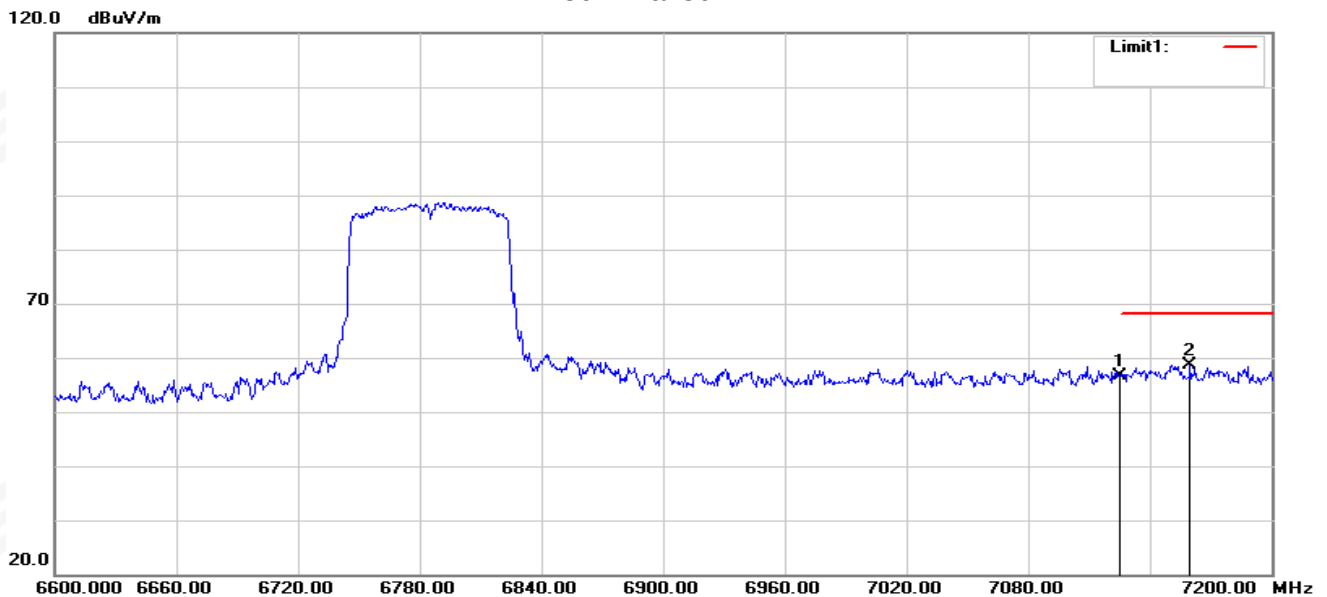


802.11ax80-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	55.51	2.10	57.61	68.20	-10.59	peak
2	7185.600	55.80	2.15	57.95	68.20	-10.25	peak

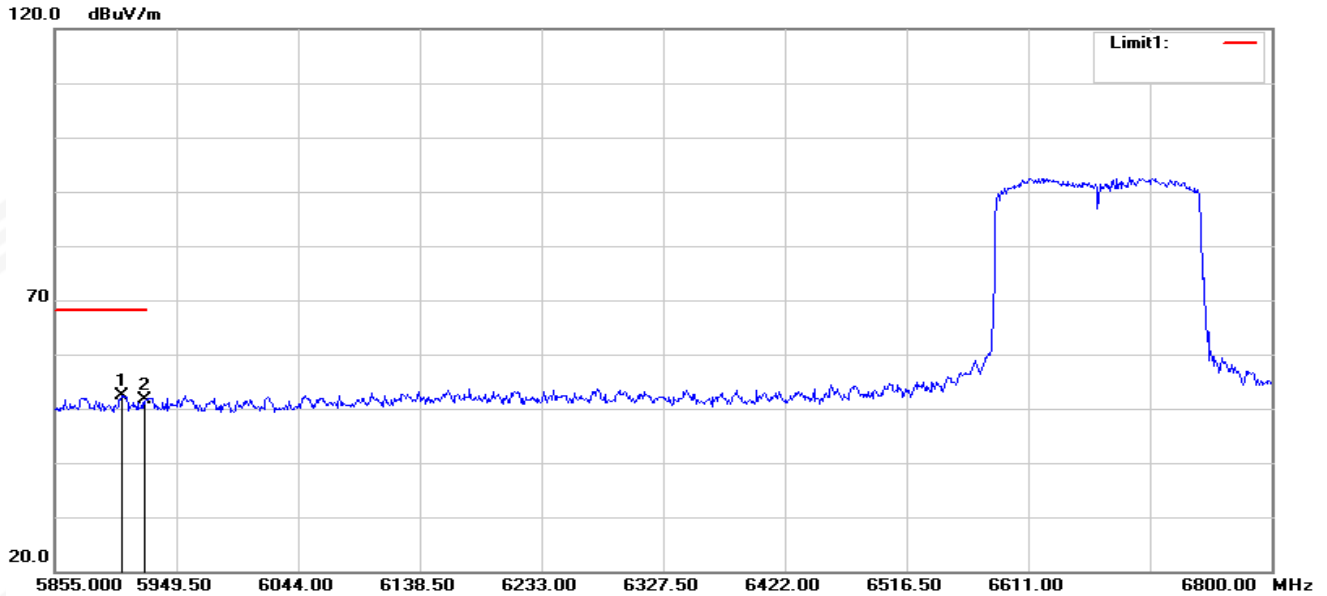
802.11ax80-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.43	2.10	56.53	68.20	-11.67	peak
2	7159.800	56.45	2.13	58.58	68.20	-9.62	peak

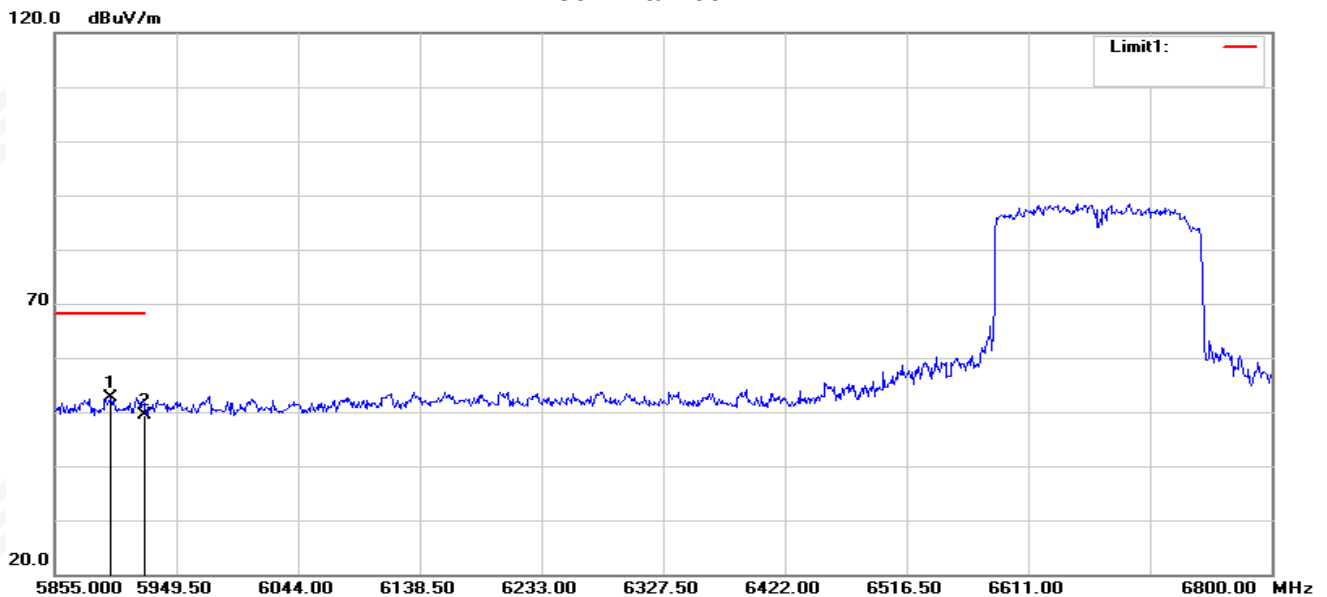


802.11ax160-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5906.975	55.94	-3.61	52.33	68.20	-15.87	peak
2	5925.000	55.31	-3.59	51.72	68.20	-16.48	peak

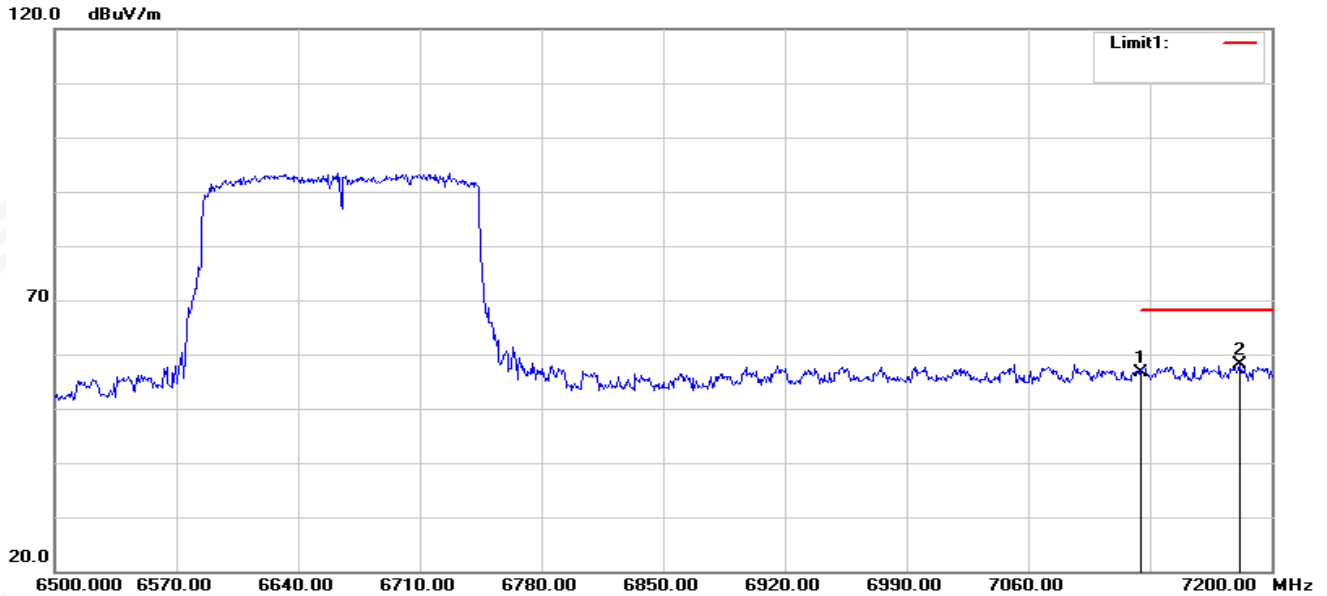
802.11ax160-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5898.470	56.13	-3.62	52.51	68.20	-15.69	peak
2	5925.000	53.01	-3.59	49.42	68.20	-18.78	peak

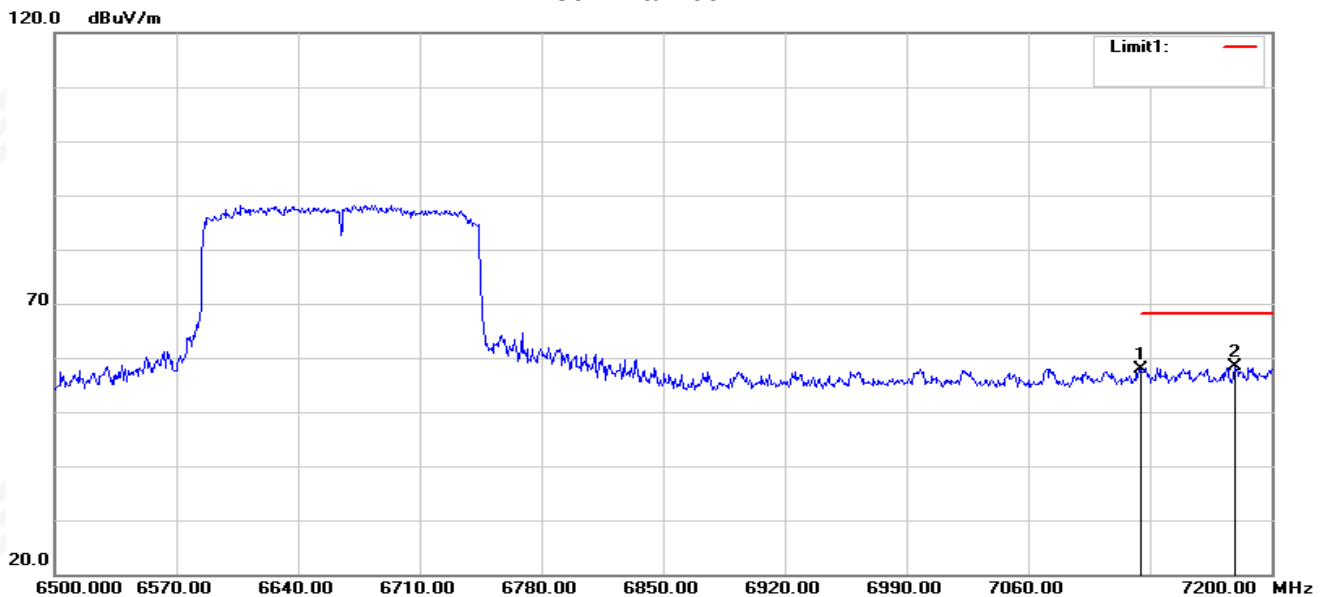


802.11ax160-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.55	2.10	56.65	68.20	-11.55	peak
2	7181.800	55.94	2.14	58.08	68.20	-10.12	peak

802.11ax160-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	55.76	2.10	57.86	68.20	-10.34	peak
2	7179.000	56.13	2.14	58.27	68.20	-9.93	peak

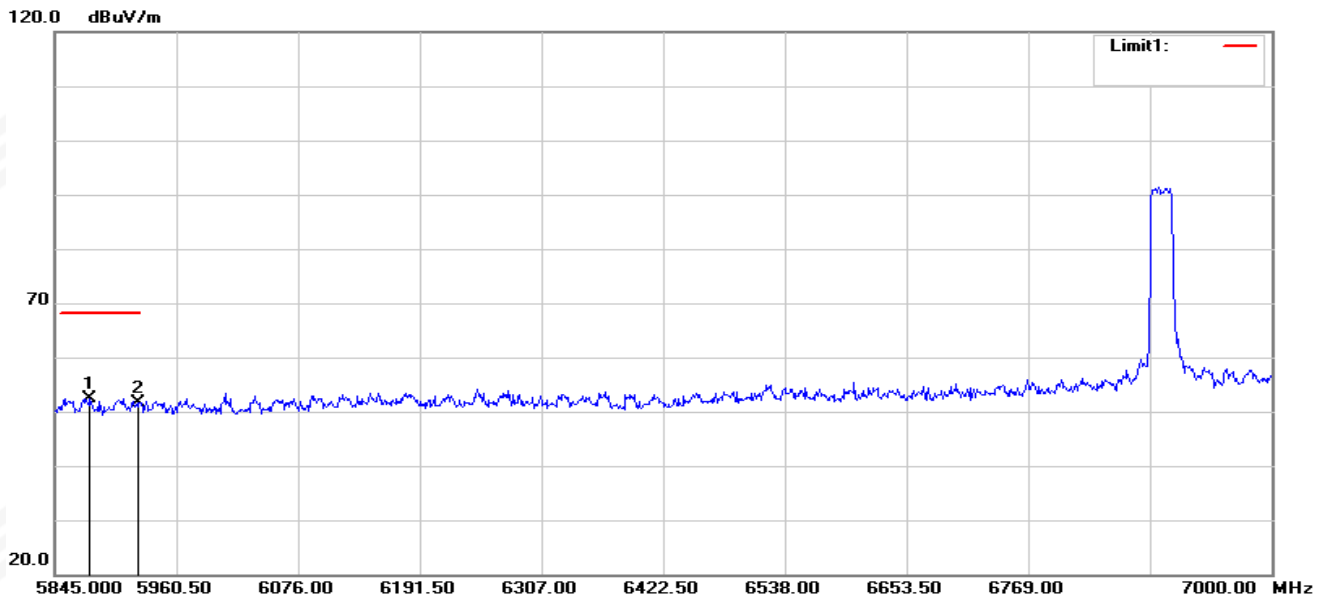
Remark:

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



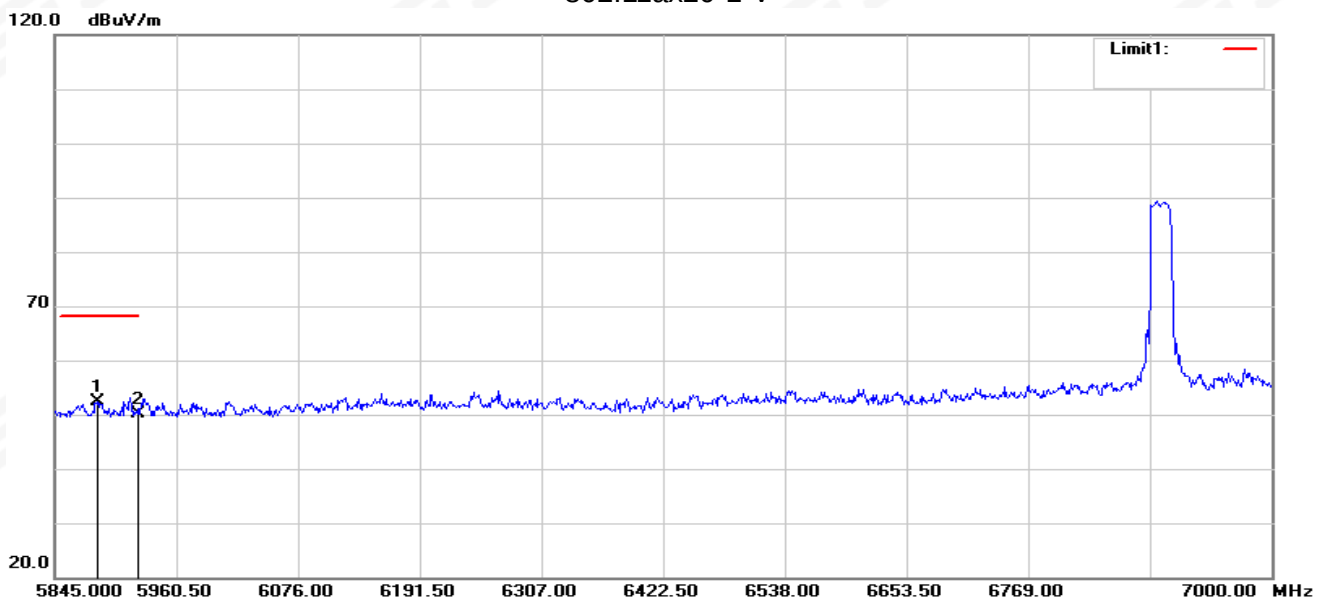
U-NII-8

802.11ax20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5878.495	56.09	-3.70	52.39	68.20	-15.81	peak
2	5925.000	55.30	-3.59	51.71	68.20	-16.49	peak

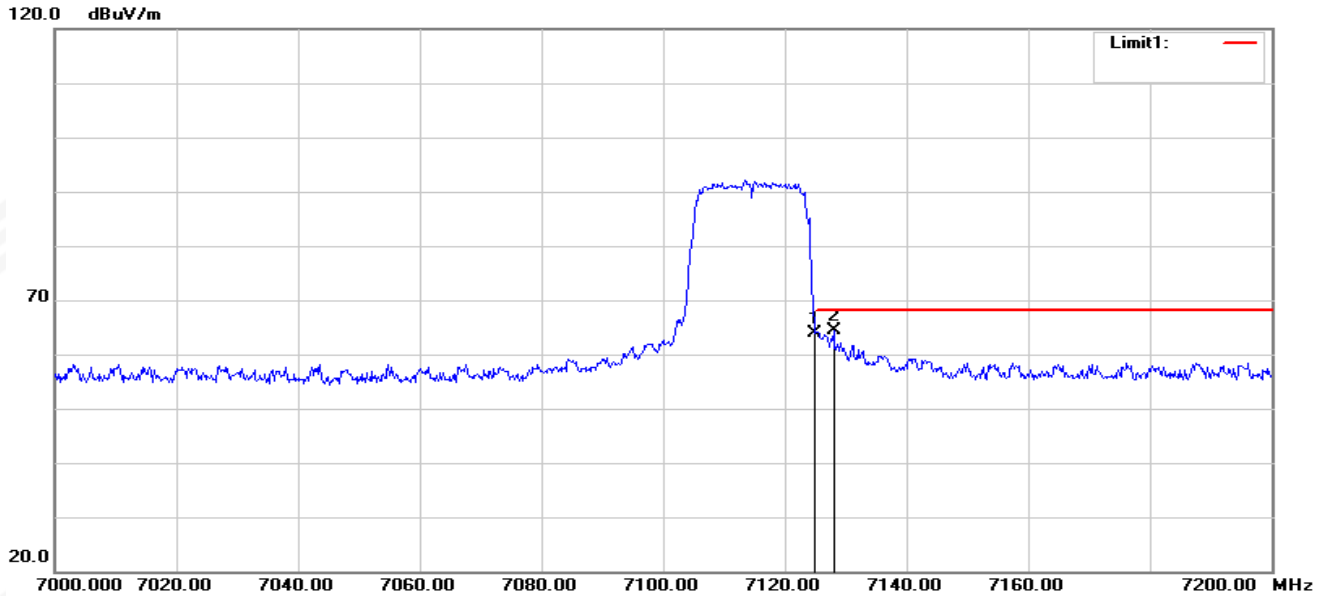
802.11ax20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5885.425	55.96	-3.67	52.29	68.20	-15.91	peak
2	5925.000	53.70	-3.59	50.11	68.20	-18.09	peak

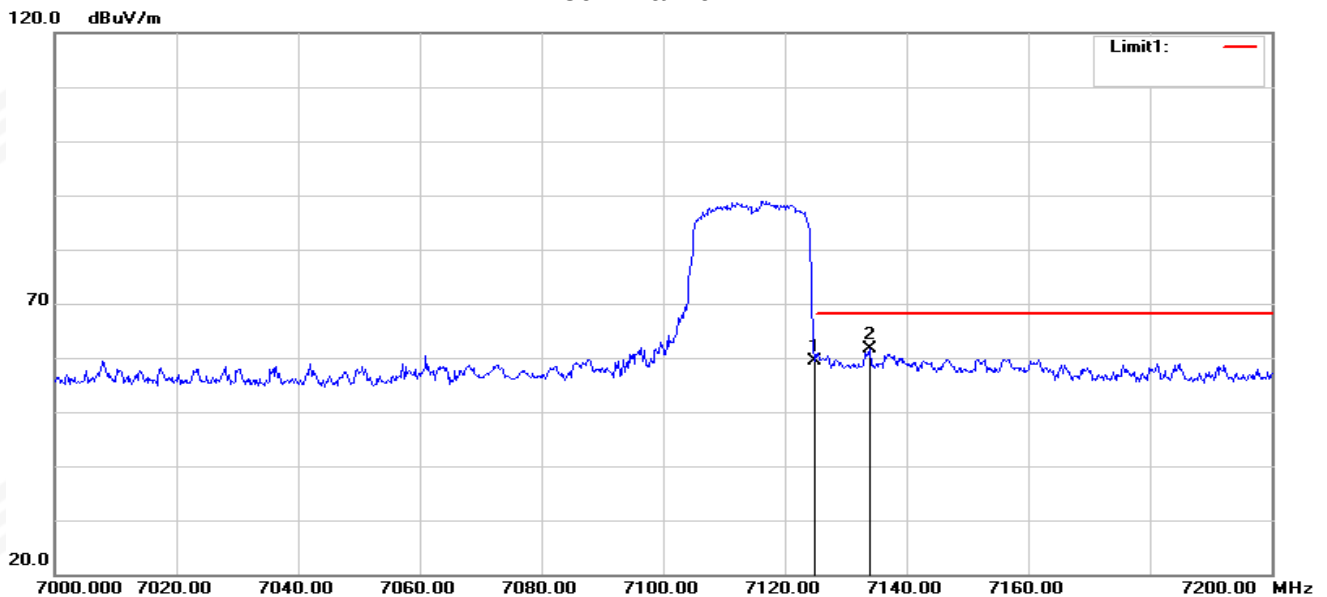


802.11ax20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7125.000	61.89	2.10	63.99	68.20	-4.21	peak
2	7128.000	62.22	2.10	64.32	68.20	-3.88	peak

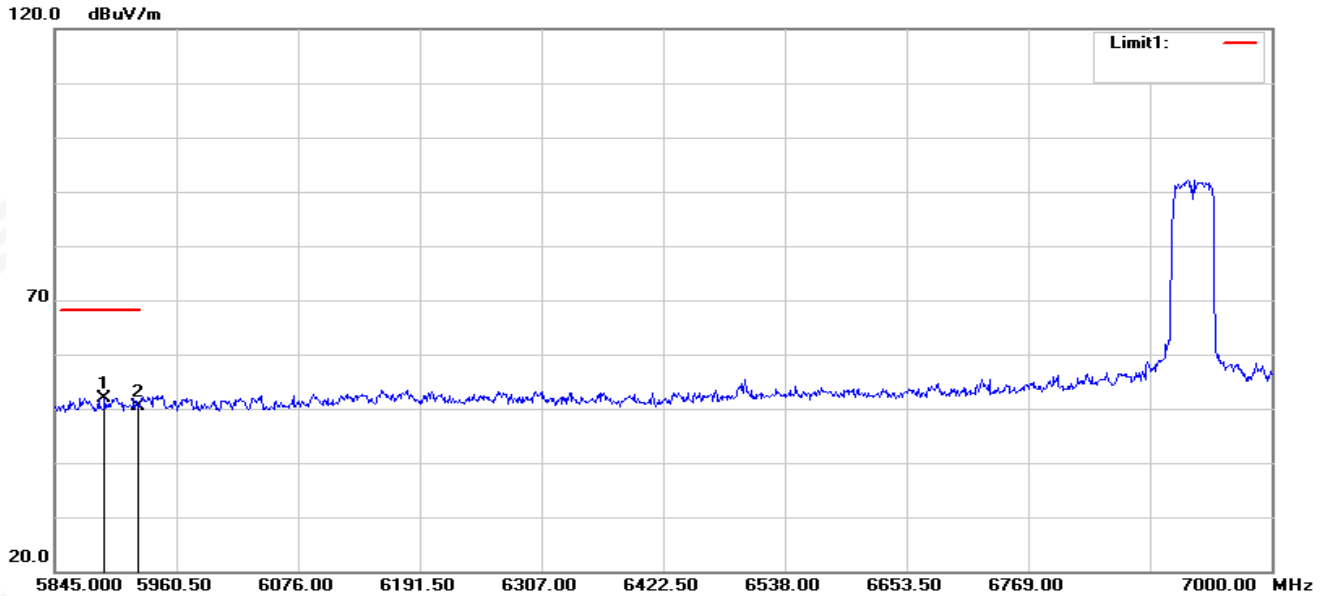
802.11ax20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7125.000	57.22	2.10	59.32	68.20	-8.88	peak
2	7134.000	59.51	2.11	61.62	68.20	-6.58	peak

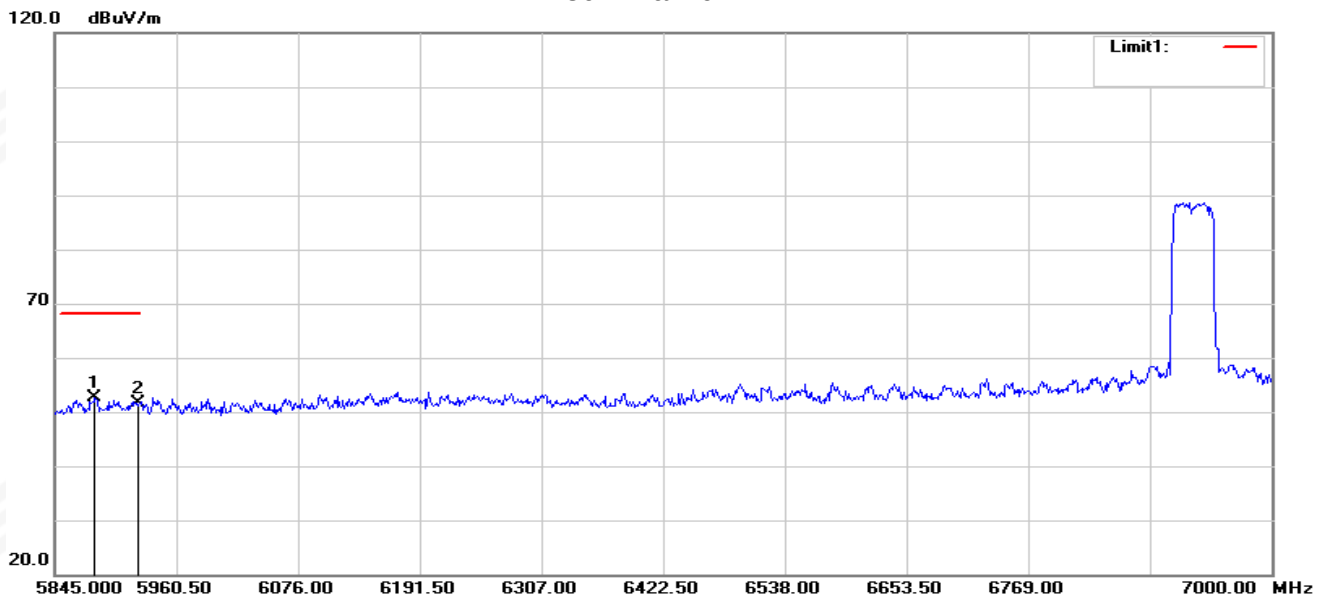


802.11ax40-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5892.355	55.54	-3.65	51.89	68.20	-16.31	peak
2	5925.000	53.95	-3.59	50.36	68.20	-17.84	peak

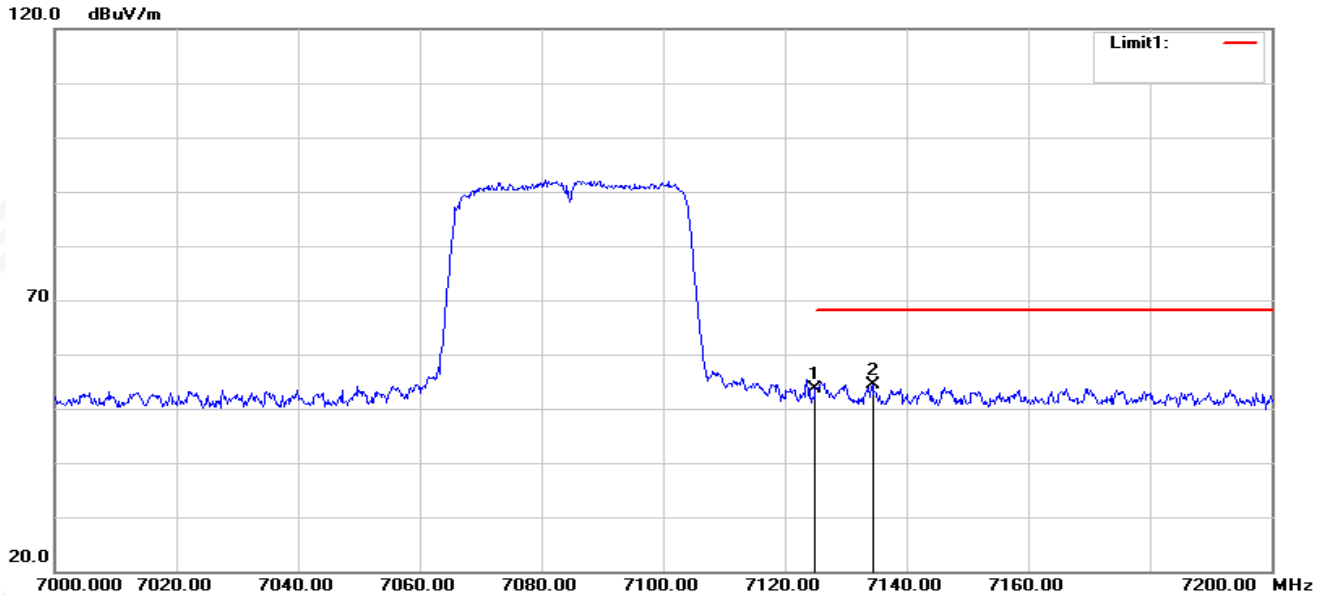
802.11ax40-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5883.115	56.20	-3.69	52.51	68.20	-15.69	peak
2	5925.000	55.32	-3.59	51.73	68.20	-16.47	peak

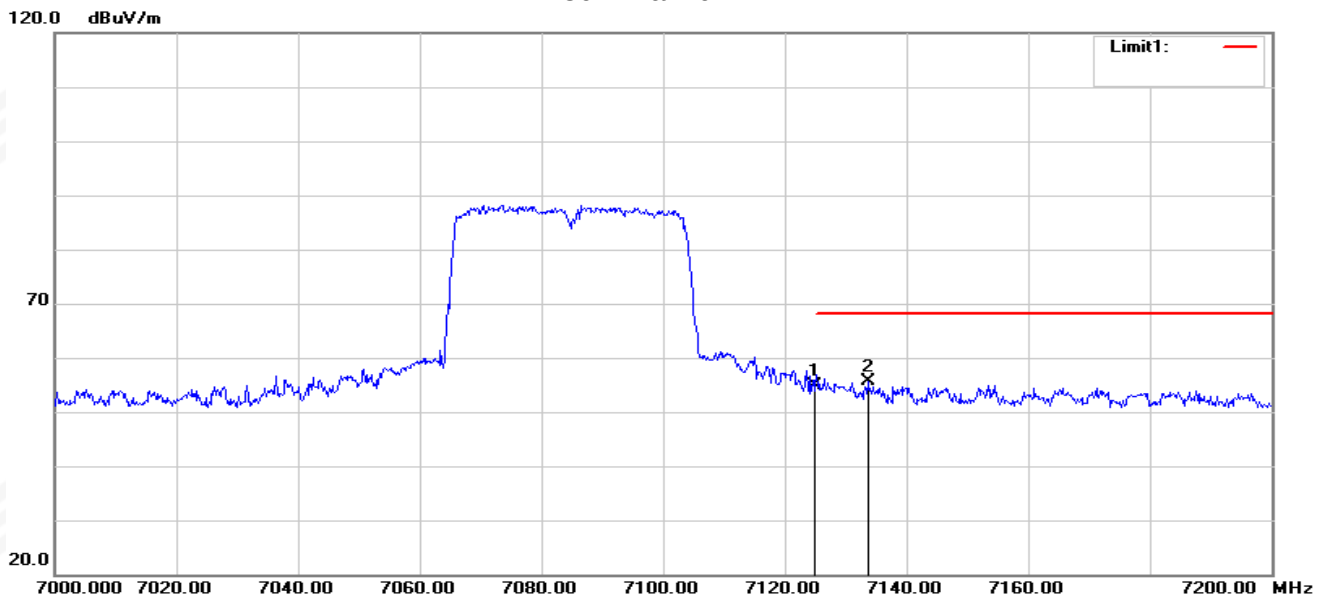


802.11ax40-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	55.31	-1.75	53.56	68.20	-14.64	peak
2	7134.400	56.20	-1.77	54.43	68.20	-13.77	peak

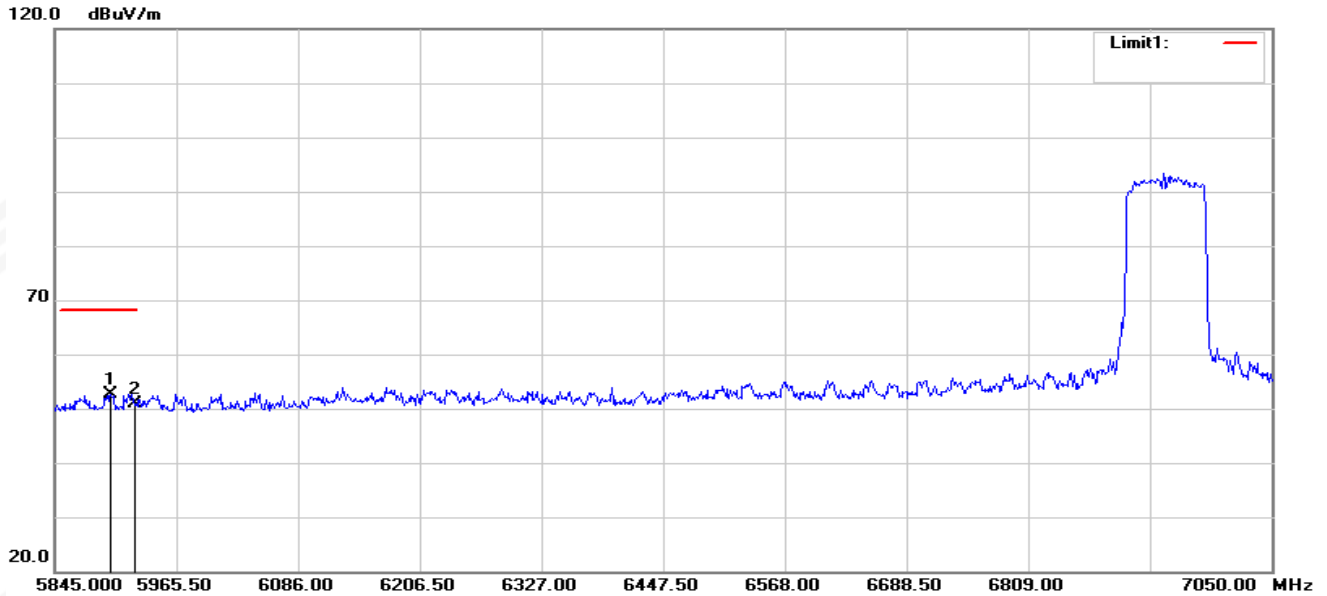
802.11ax40-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	56.71	-1.75	54.96	68.20	-13.24	peak
2	7133.600	57.32	-1.77	55.55	68.20	-12.65	peak

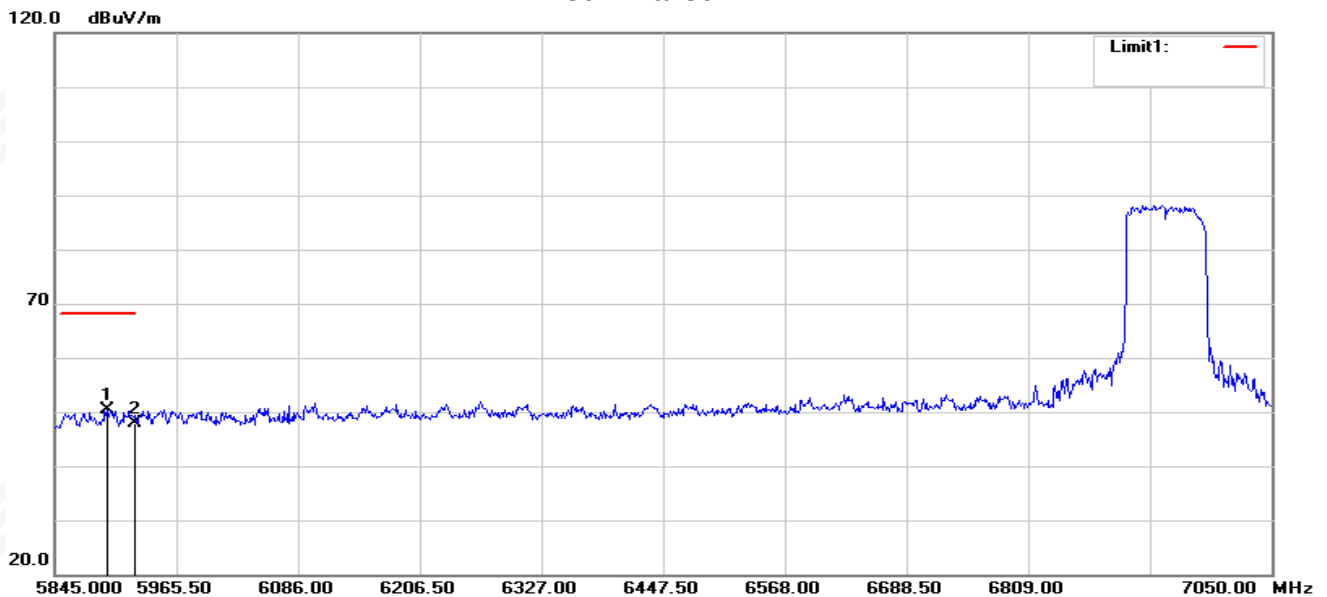


802.11ax80-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5900.430	56.18	-3.62	52.56	68.20	-15.64	peak
2	5925.000	54.38	-3.59	50.79	68.20	-17.41	peak

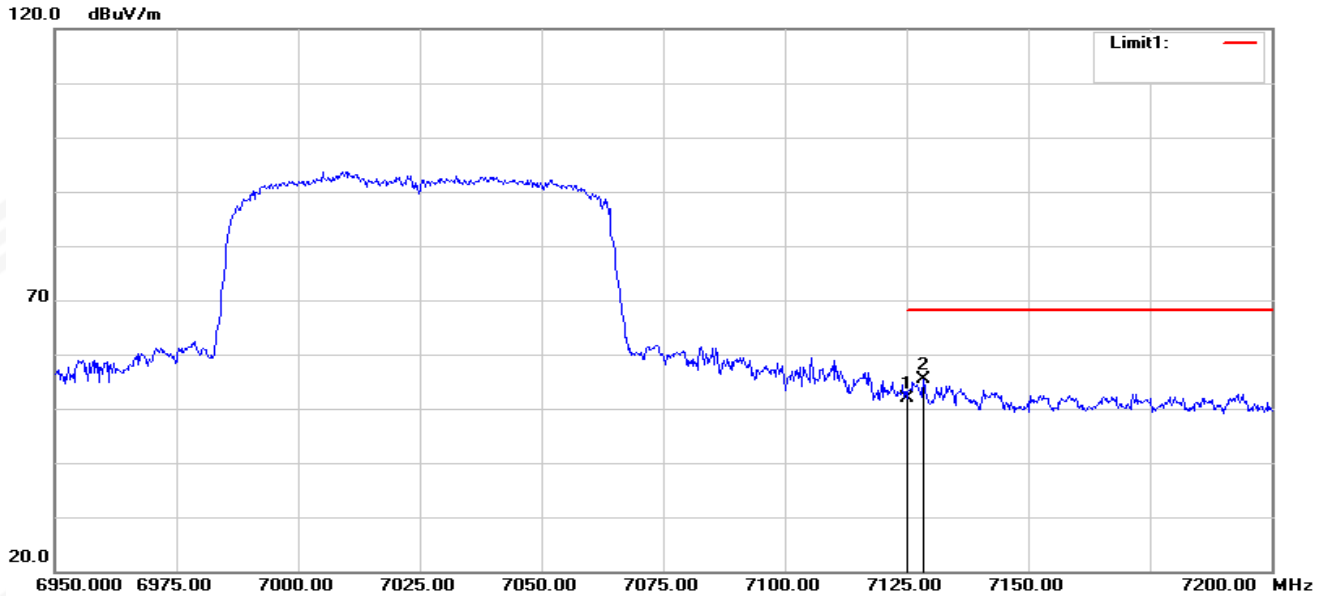
802.11ax80-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5896.815	53.96	-3.64	50.32	68.20	-17.88	peak
2	5925.000	51.40	-3.59	47.81	68.20	-20.39	peak

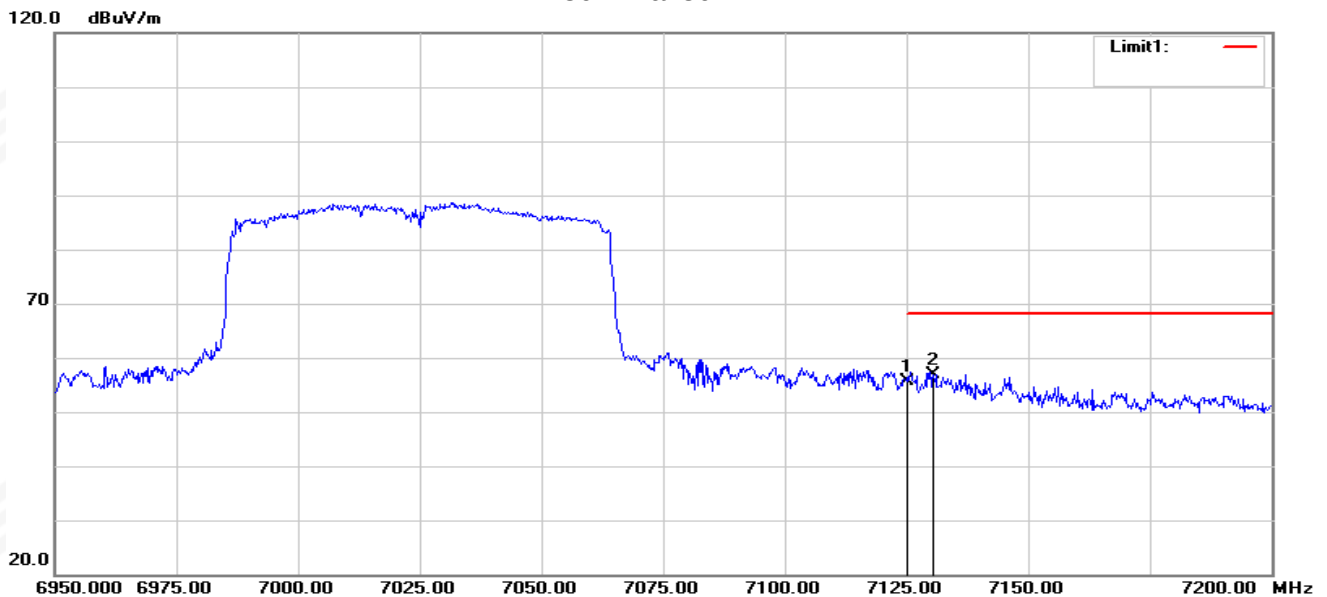


802.11ax80-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	53.73	-1.75	51.98	68.20	-16.22	peak
2	7128.500	57.08	-1.76	55.32	68.20	-12.88	peak

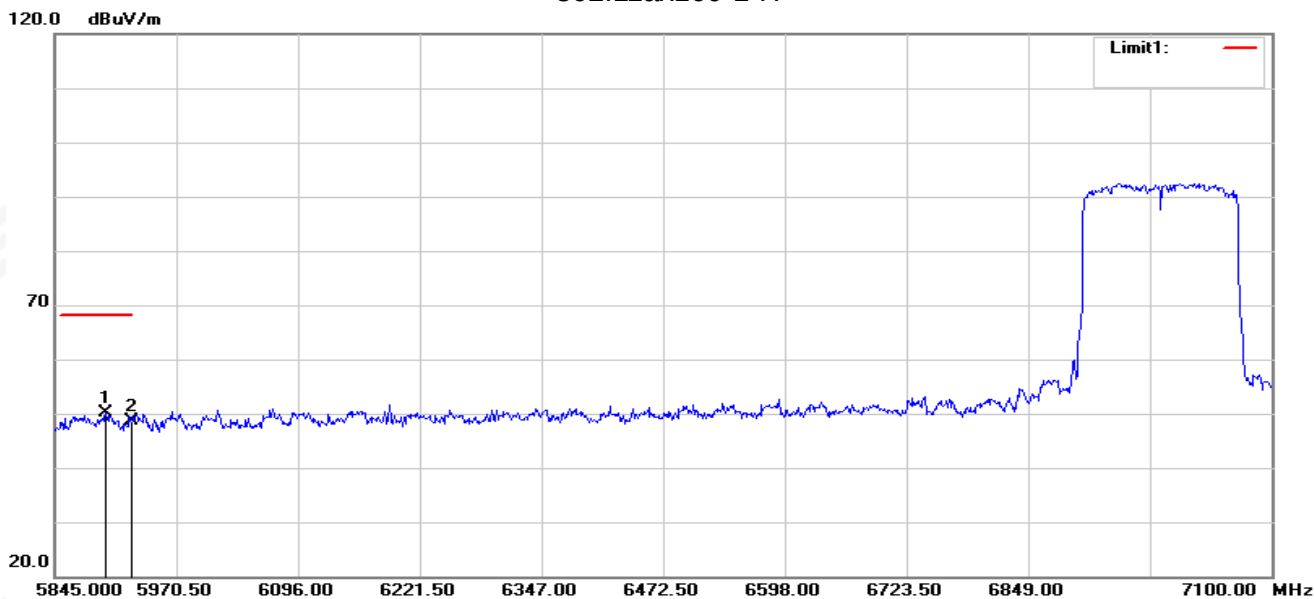
802.11ax80-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	57.34	-1.75	55.59	68.20	-12.61	peak
2	7130.500	58.74	-1.76	56.98	68.20	-11.22	peak

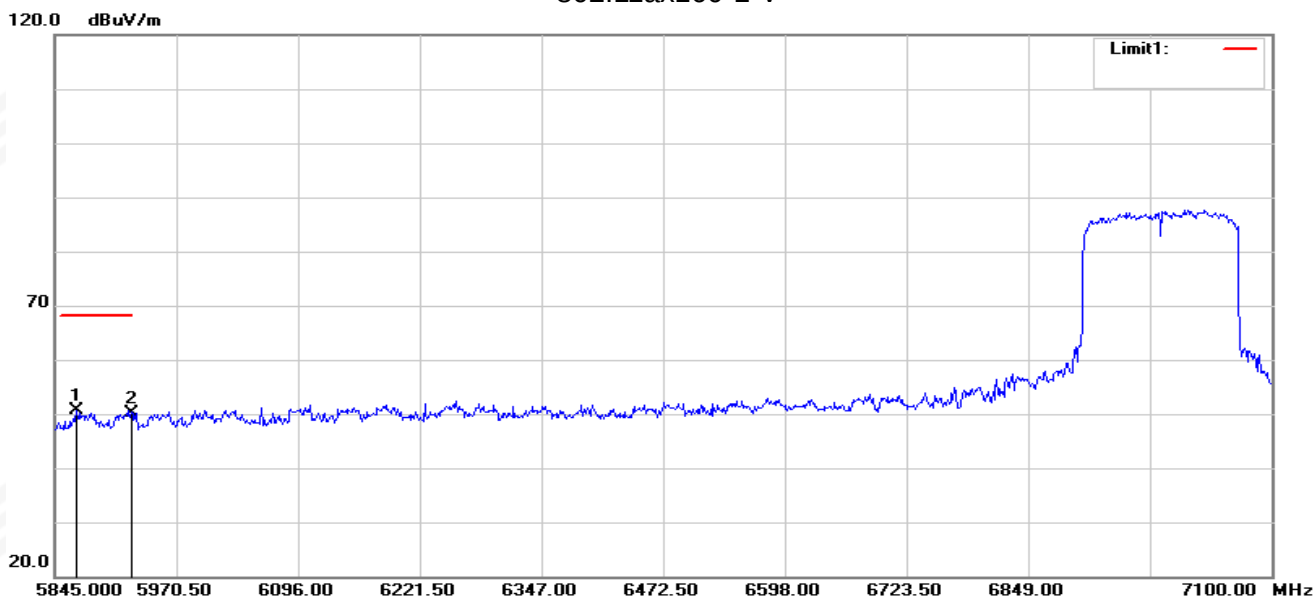


802.11ax160-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5897.710	53.70	-3.63	50.07	68.20	-18.13	peak
2	5925.000	52.32	-3.59	48.73	68.20	-19.47	peak

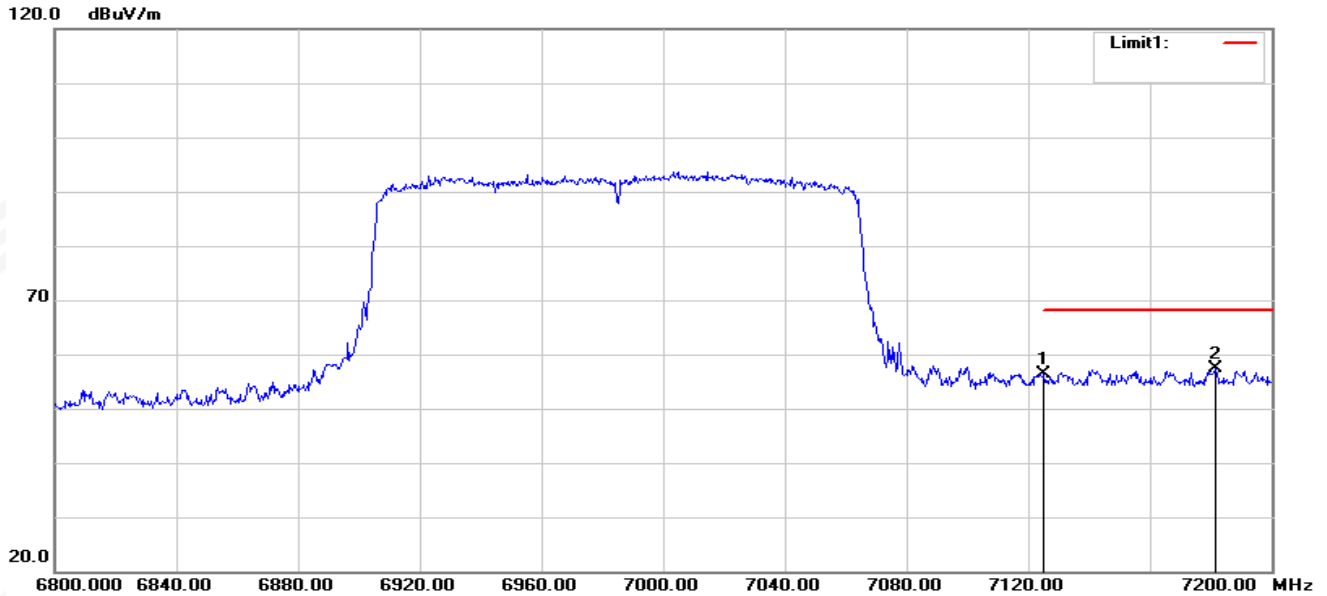
802.11ax160-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5867.590	54.27	-3.75	50.52	68.20	-17.68	peak
2	5925.000	53.62	-3.59	50.03	68.20	-18.17	peak

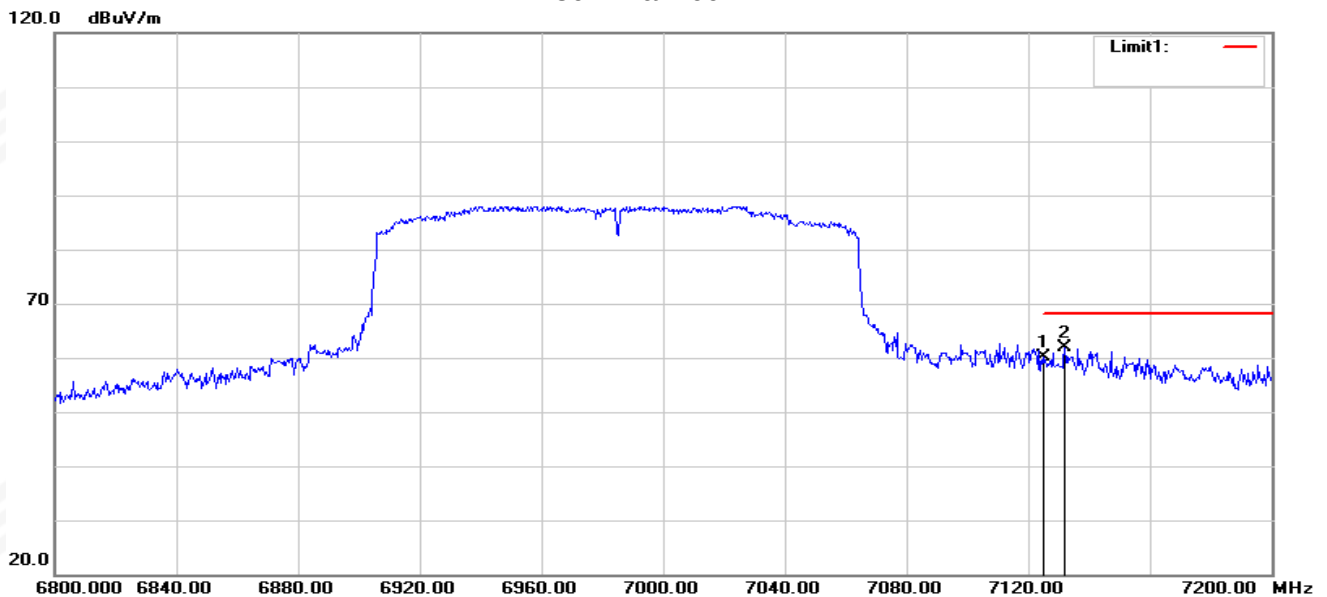


802.11ax160-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	54.33	2.10	56.43	68.20	-11.77	peak
2	7181.600	55.25	2.14	57.39	68.20	-10.81	peak

802.11ax160-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	57.92	2.10	60.02	68.20	-8.18	peak
2	7132.000	59.65	2.11	61.76	68.20	-6.44	peak

Remark:

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

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

4. POWER SPECTRAL DENSITY TEST

4.1 LIMIT

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

4.2 TEST PROCEDURE

Duty cycle $\geq 98\%$

1. Set RBW=1MHz/VBW=3MHz, Sweeptime=auto Detector=RMS
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level
4. EIRPPSD=Measured conducted power density+Antenna gain

Duty cycle $< 98\%$

1. Set RBW=1MHz/VBW=3MHz Detector=RMS
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level
5. Add $10\log(1/x)$ where x is the duty cycle.
6. EIRP PSD=Measured conducted power density+Antenna gain.

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 "STS2509098W05_Appendix 6G WIFI".

5. BANDWIDTH MEASUREMENT

5.1 LIMIT

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320MHz.

5.2 TEST PROCEDURE

26dB Bandwidth

1. Set RBW=approximately 1% of the emission bandwidth.
2. Set the VBW $\geq$ RBW.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

1. Set RBW=1% to 5% of the OBW.
2. Set VBW $\geq$ 3RBW
3. Sample detection and single sweep modes shall be used
4. Use the 99% power bandwidth function of the instrument.

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 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

The test data please reference to attachment“STS2509098W05_Appendix 6G WIFI”.



6. MAXIMUM CONDUCTED OUTPUT POWER AND MAXIMUM EIRP

6.1 LIMIT

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

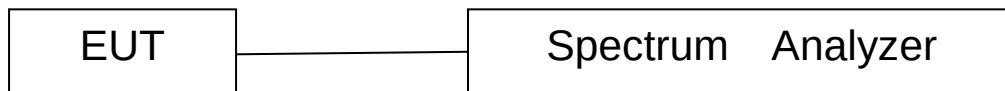
6.2 TEST PROCEDURE

Please refer to ANSI C63.10-2020 Section 12.4.2 Method SA-2.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

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

6.6 TEST RESULTS

Note: The test data please reference to attachment "STS2509098W05_Appendix 6G WIFI".

7. IN-BAND EMISSIONS

7.1 LIMIT

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

7.2 TEST PROCEDURE

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.

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 "STS2509098W05_Appendix 6G WIFI".



8. CONTENTION BASED PROTOCOL

8.1 LIMIT

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

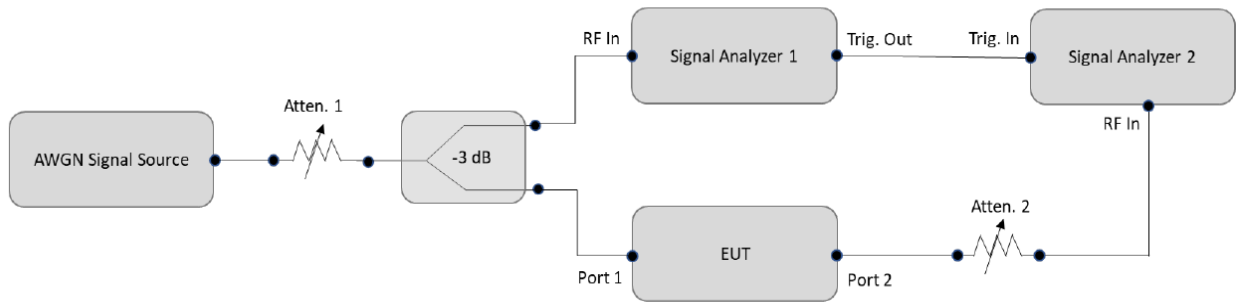
8.2 TEST PROCEDURE

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 TEST RESULTS

Note: The test data please reference to attachment “STS2509098W05_Appendix 6G WIFI”.



9. AUTOMATICALLY DISCONTINUE TRANSMISSION

9.1 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.

9.2 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.



10. ANTENNA REQUIREMENT

10.1 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.

10.2 EUT ANTENNA

The EUT antenna is Built-in 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.

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