



RADIO TEST REPORT

Report No.:STS2204179W05

Issued for

NETIS SYSTEMS CO., LTD.

Floor 8, Building B, TongFang Information Harbor, No.11
Langshan Road, Nanshan District, Shenzhen, China

Product Name:	AX1800 Whole Home Mesh WiFi 6 System
Brand Name:	N/A
Model Name:	M6
Series Model:	N6T-Suit
FCC ID:	T58M6R
Test Standard:	FCC Part 15.407

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TEST RESULT CERTIFICATION

Applicant's Name..... : NETIS SYSTEMS CO., LTD.
Address : Floor 8, Building B, TongFang Information Harbor, No.11
Langshan Road, Nanshan District, Shenzhen, China
Manufacturer's Name : NETIS SYSTEMS CO., LTD
Address : Floor 8, Building B, TongFang Information Harbor, No.11
Langshan Road, Nanshan District, Shenzhen, China

Product Description

Product Name..... : AX1800 Whole Home Mesh WiFi 6 System
Brand Name : N/A
Model Name : M6
Series Model..... : N6T-Suit

Test Standards..... : FCC Part15.407

Test Procedure..... ANSI C63.10-2013

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 : 24 Apr. 2022

Date (s) of performance of tests..... : 24 Apr. 2022 ~ 13 June 2022

Date of Issue..... : 13 June 2022

Test Result..... : **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	13 June 2022	STS2204179W05	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)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203/15.204	Antenna Requirement	PASS

NOTE:

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

(2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.87\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.895\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.09\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.92\text{dB}$
6	All emissions, radiated >6G	$\pm 5.49\text{dB}$
7	Conducted Emission (9KHz-30MHz)	$\pm 2.73\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	AX1800 Whole Home Mesh WiFi 6 System	
Trade Name	N/A	
Model Name	M6	
Series Model	N6T-Suit	
Model Difference	Only different in model name.	
Product Description	The EUT is a AX1800 Whole Home Mesh WiFi 6 System	
	Operation Frequency:	IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40)/ax(HE40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80)/ax(HE80): 5.210GHz IEEE 802.11ax(HE160): 5.250GHz
		IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20): 5.745GHz-5.825GHz IEEE 802.11n(HT40)/ac(VHT40)/ax(HE40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80)/ax(HE80): 5.775GHz
	Modulation Type:	802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM
	Antenna Designation:	See Note 2
	Max.Output Power(Conducted):	14.65 dBm
More details of EUT technical specification, please refer to the User Manual.		
Test Channel	Please refer to the Note 2.	
Adapter	Model: KL-WA120150-D Input: 100-240V~ 50/60Hz 0.7A Output:12.0V1.5A Model: DJ18W-1201500U Input: 100-240V~ 50/60Hz 0.6A MAX Output:12.0V1.5A 18.0W	
Hardware version number	V1.0	
Software version number	V1.3.211126.151347	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.



1. Operation Frequency of channel			
5.180GHz-5.240GHz		5.745GHz-5.825GHz	
Channel	Frequency	Channel	Frequency
36	5180	149	5745
38	5190	151	5755
40	5200	153	5765
42	5210	157	5785
44	5220	159	5795
46	5230	161	5805
48	5240	165	5825
50	5250		

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)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
36	5180	149	5745
40	5200	157	5785
48	5240	165	5825

For 802.11n(HT40) /ac (VHT40) /ax (HE40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
38	5190	151	5755
46	5230	159	5795

For 802.11ac (VHT80) /ax (HE80)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
42	5210	155	5775

For 802.11ax (HE160)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
50	5250		



2. KDB 662911 D01 Multiple Transmitter Output v02r01

2) Directional Gain Calculations for In-Band Measurements

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

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

Directional gain = GANT + 10 log(NANT) dBi

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

Directional gain = GANT

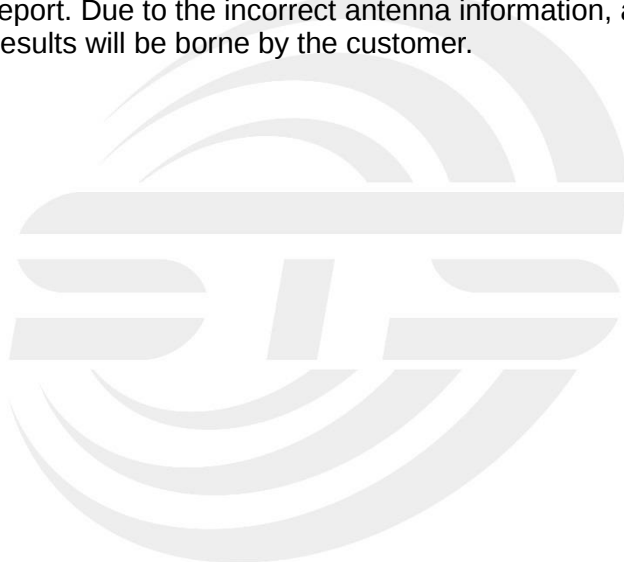
ANT A: 4dBi, ANT B: 4dBi, MIMO: 7.01dBi

GANT + 10 log(NANT) dBi

Directional gain = 3 + 10 log 2 = 7.01 dBi

Ant	Brand	Model Name	Ant Type	Connector	Gain (dBi)	NOTE
A	N/A	M6	PCB	N/A	ANT A: 4dBi, ANT B: 4dBi, MIMO: 7.01dBi	WLAN Ant

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.





2.2 DESCRIPTION OF TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 3	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 4	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 5	TX IEEE 802.11ax HE20 CH36&CH40&CH48	NSS1 MCS0
Mode 6	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 7	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 8	TX IEEE 802.11ax HE20 CH149&CH157&CH165	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 10	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 11	TX IEEE 802.11ax HE40 CH38&CH46	NSS1 MCS0
Mode 12	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 13	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 14	TX IEEE 802.11ax HE40 CH151&CH159	NSS1 MCS0
Mode 15	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 16	TX IEEE 802.11ax HE80 CH42	NSS1 MCS0
Mode 17	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0
Mode 18	TX IEEE 802.11ax HE80 CH155	NSS1 MCS0
Mode 19	TX IEEE 802.11ax HE160 CH50	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.
(4) The battery is fully-charged during the radiated and RF conducted test.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 20: Keeping TX + WLAN Link



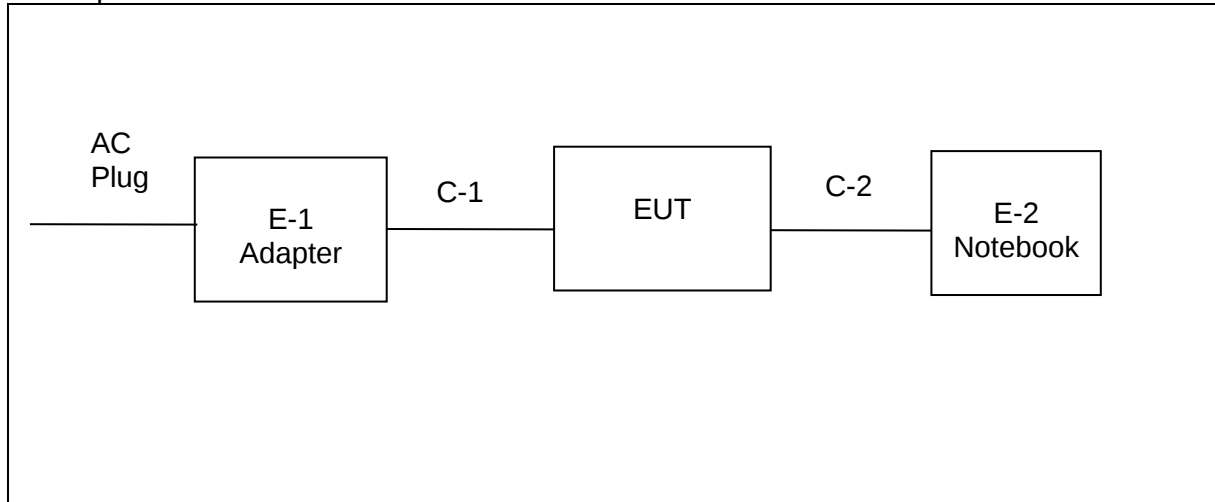
2.3 TEST SOFTWARE AND POWER LEVEL

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

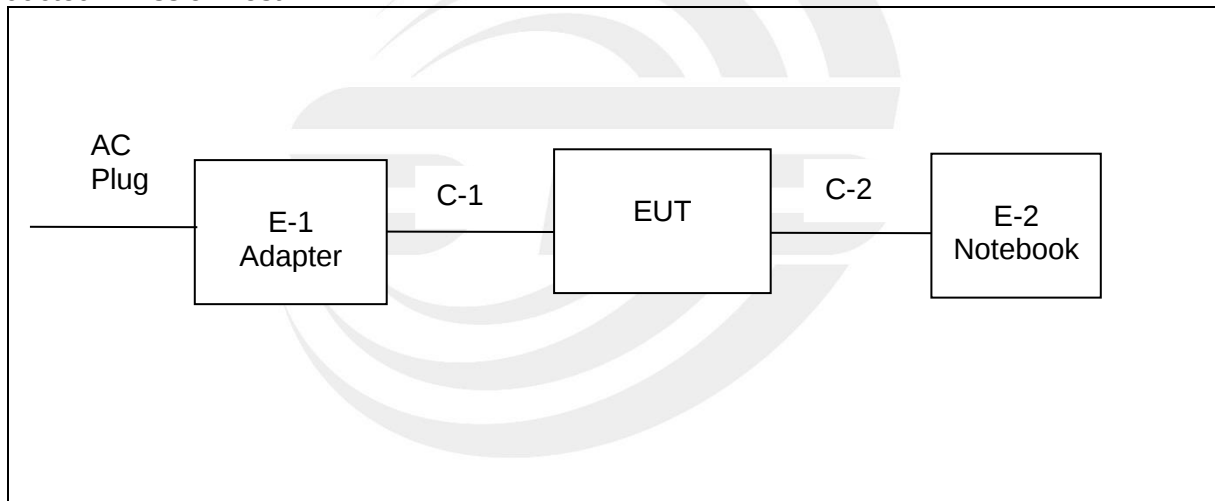
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_A Power Class	ANT_B Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	A: 4dBi B: 4dBi A+B:7.01	10	10	QATool_Dbg
		802.11n(HT20)		10	10	
		802.11n(HT40)		10	10	
		802.11ac(VHT20)		10	10	
		802.11ac(VHT40)		10	10	
		802.11ac(VHT80)		10	10	
		802.11ax(HE20)		10	10	
		802.11ax(HE40)		10	10	
		802.11ax(HE80)		10	10	
		802.11ax(HE160)		10	10	
		802.11ax(HE160)		10	10	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_A Power Class	ANT_B Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	A: 4dBi B: 4dBi A+B:7.01	10	10	QATool_Dbg
		802.11n(HT20)		10	10	
		802.11n(HT40)		10	10	
		802.11ac(VHT20)		10	10	
		802.11ac(VHT40)		10	10	
		802.11ac(VHT80)		10	10	
		802.11ax(HE20)		10	10	
		802.11ax(HE40)		10	10	
		802.11ax(HE80)		10	10	
		802.11ax(HE160)		10	10	
		802.11ax(HE160)		10	10	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test





2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Adapter	KLEC	KL-WA120150-D	N/A	N/A
		DAJING	DJ18W-1201500U	N/A	N/A
C-1	DC Cable	N/A	N/A	125cm	NO
		N/A	N/A	120cm	NO

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-2	Notebook	LENOVO	ThinkPad E470	N/A	N/A
C-2	LAN Cable	N/A	N/A	120cm	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

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29
Signal Analyzer	R&S	FSV 40-N	101823	2021.09.30	2022.09.29
Active loop Antenna	ZHINAN	ZN30900C	16035	2021.04.11	2023.04.10
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Pre-Amplifier(0.1M-3 GHz)	EM	EM330	060665	2021.10.08	2022.10.07
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2021.09.30	2022.09.29
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2021.09.28	2022.09.27
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Test SW	FARAD	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	2021.09.30	2022.09.29
LISN	R&S	ENV216	101242	2021.09.30	2022.09.29
LISN	EMCO	3810/2NM	23625	2021.09.30	2022.09.29
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			



RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Power Sensor	Keysight	U2021XA	MY55520005	2021.09.30	2022.09.29
			MY55520006	2021.09.30	2022.09.29
			MY56120038	2021.09.30	2022.09.29
			MY56280002	2021.09.30	2022.09.29
Signal Analyzer	Agilent	N9020A	MY51110105	2022.03.01	2023.02.28
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Test SW	FARAD	LZ-RF /LzRf-3A3			





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

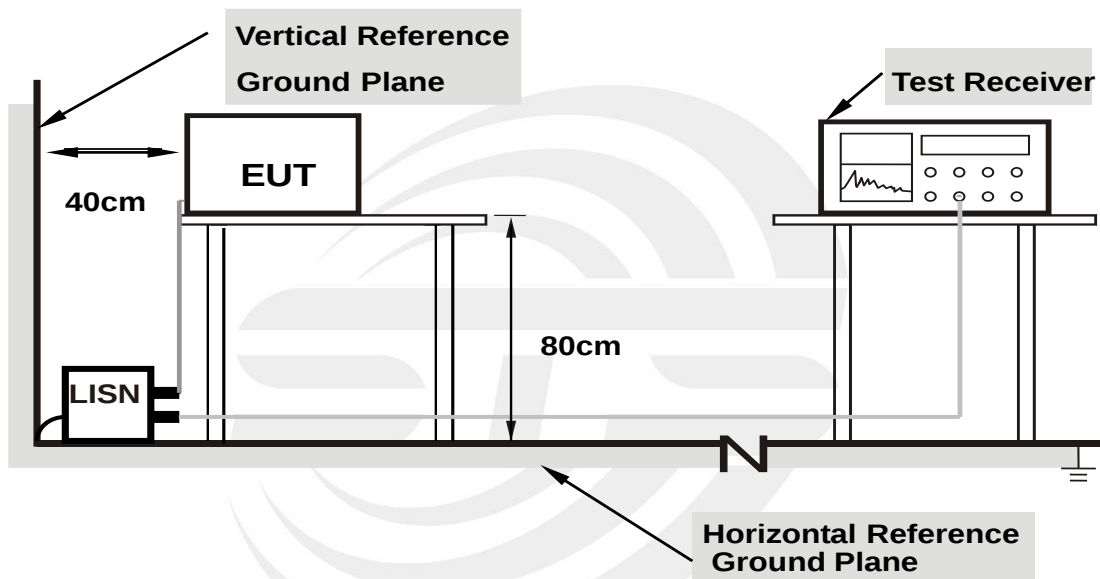
3.1.2 TEST PROCEDURE

- 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

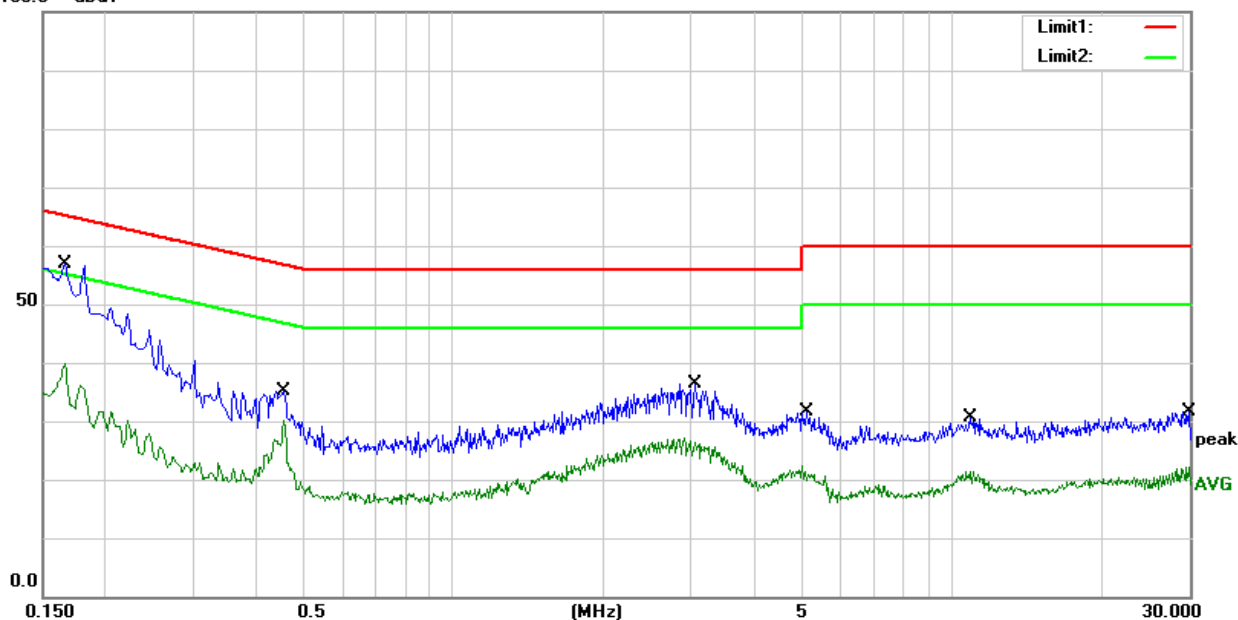
Temperature:	25.2(C)	Relative Humidity:	49%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 20		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1660	36.51	20.33	56.84	65.16	-8.32	QP
2	0.1660	19.64	20.33	39.97	55.16	-15.19	AVG
3	0.4580	14.68	20.54	35.22	56.73	-21.51	QP
4	0.4580	9.57	20.54	30.11	46.73	-16.62	AVG
5	3.0460	15.96	20.35	36.31	56.00	-19.69	QP
6	3.0460	6.75	20.35	27.10	46.00	-18.90	AVG
7	5.1220	11.14	20.47	31.61	60.00	-28.39	QP
8	5.1220	1.78	20.47	22.25	50.00	-27.75	AVG
9	10.8820	9.31	21.30	30.61	60.00	-29.39	QP
10	10.8820	0.11	21.30	21.41	50.00	-28.59	AVG
11	29.9700	8.78	22.94	31.72	60.00	-28.28	QP
12	29.9700	-0.87	22.94	22.07	50.00	-27.93	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



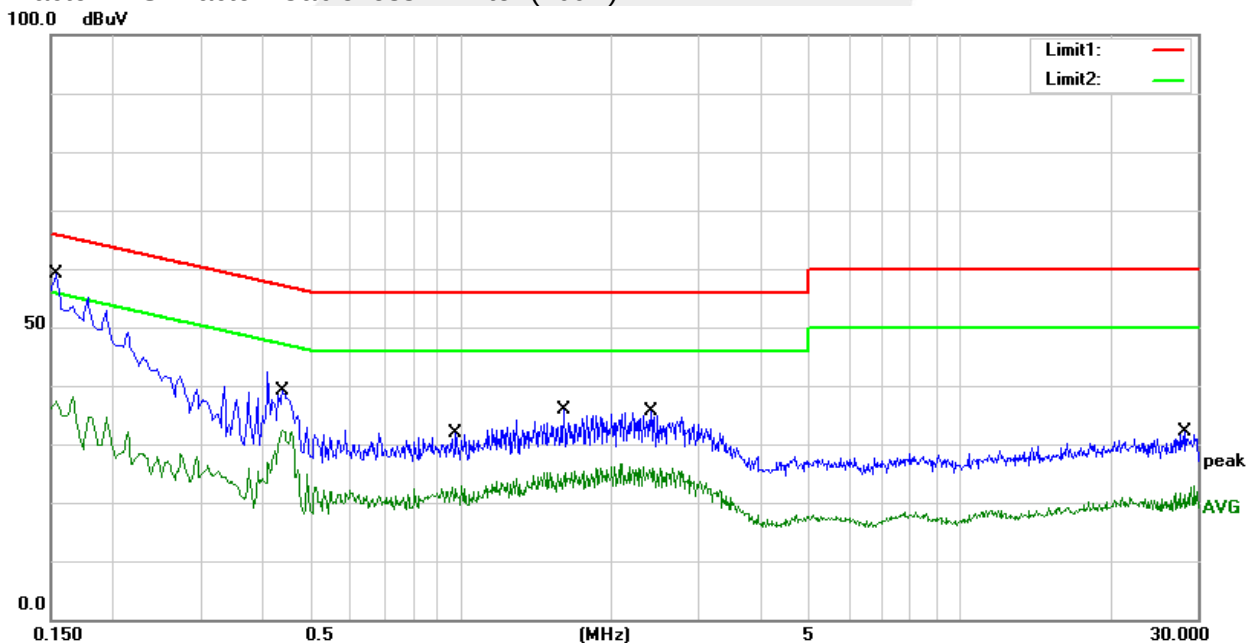


Temperature:	25.2(C)	Relative Humidity:	49%RH
Test Voltage	AC 120V/60Hz	Phase:	N
Test Mode	Mode 20		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1540	38.93	20.30	59.23	65.78	-6.55	QP
2	0.1540	17.78	20.30	38.08	55.78	-17.70	AVG
3	0.4380	18.56	20.54	39.10	57.10	-18.00	QP
4	0.4380	11.87	20.54	32.41	47.10	-14.69	AVG
5	0.9780	11.52	20.31	31.83	56.00	-24.17	QP
6	0.9780	2.65	20.31	22.96	46.00	-23.04	AVG
7	1.6060	15.45	20.35	35.80	56.00	-20.20	QP
8	1.6060	5.02	20.35	25.37	46.00	-20.63	AVG
9	2.4060	15.25	20.41	35.66	56.00	-20.34	QP
10	2.4060	6.22	20.41	26.63	46.00	-19.37	AVG
11	28.4100	9.08	23.04	32.12	60.00	-27.88	QP
12	28.4100	-1.41	23.04	21.63	50.00	-28.37	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 (BANDEDGE) MEASUREMENT

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

LIMITS OF RESTRICTED FREQUENCY BANDS

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

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

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

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

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

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

Peak Limit = -27dBm/MHz + 95.3 = 68.2 dBuV/m.

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

For Band edge

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

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



3.2.2 TEST PROCEDURE

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

Note:

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

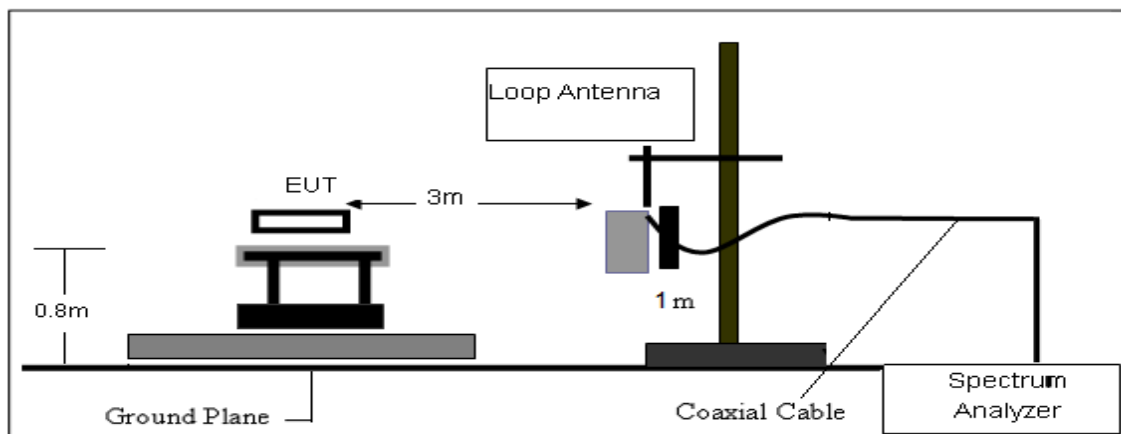
3.2.2 DEVIATION FROM TEST STANDARD

No deviation

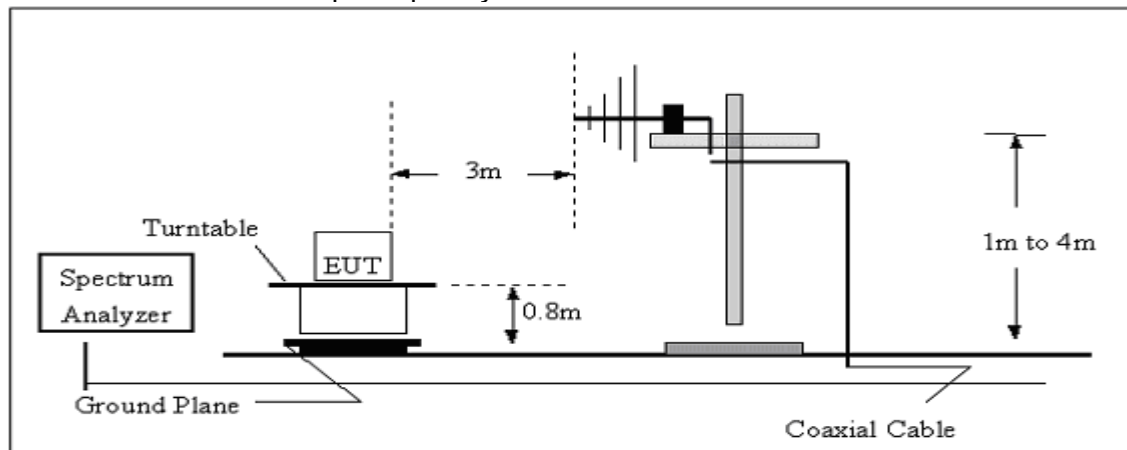


3.2.3 TEST SETUP

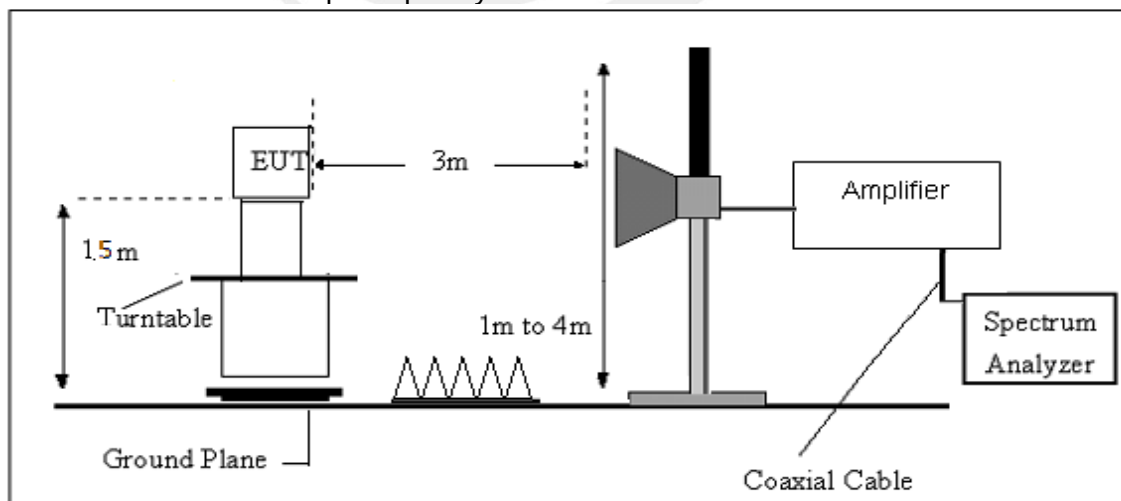
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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





3.2.4 EUT OPERATING CONDITIONS

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

3.2.5 FIELD STRENGTH CALCULATION

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

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

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

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

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

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

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Polarization :	--
Test Mode:	TX Mode		

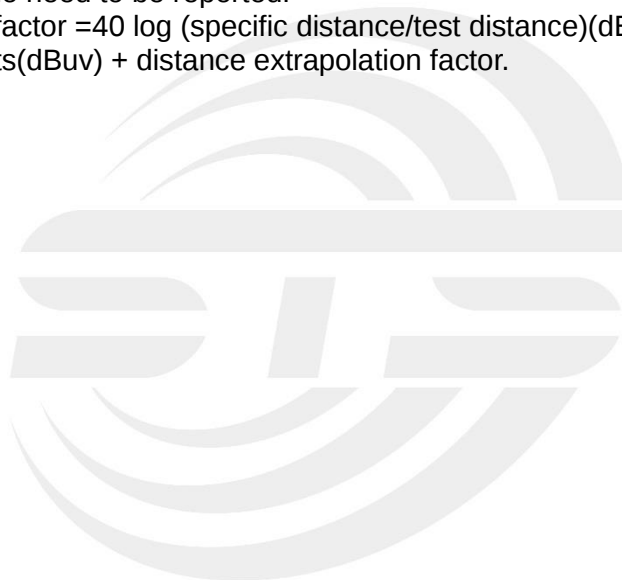
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

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

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



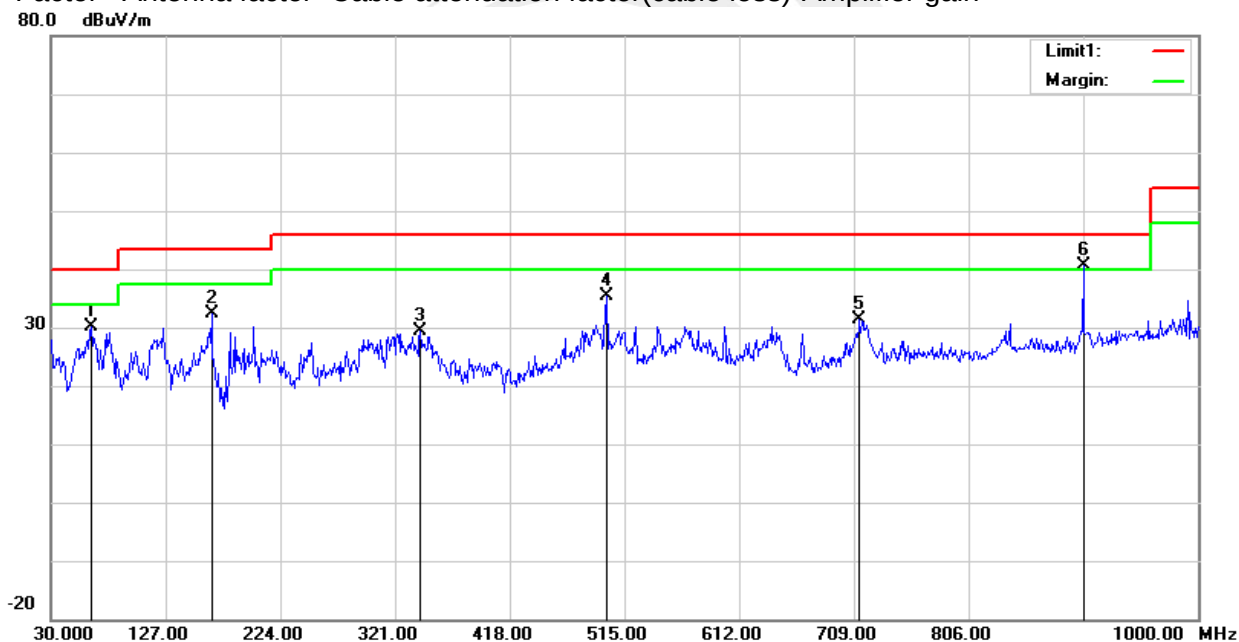
**3.2.7 TEST RESULTS (Between 30MHz – 1GHz)**

Temperature	23.1(C)	Relative Humidity:	60%RH
Test Voltage	AC 120V/60Hz	Polarization:	Horizontal
Test Mode	Mode 1~19(Mode 5 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	63.9500	55.77	-25.64	30.13	40.00	-9.87	peak
2	165.8000	51.76	-19.40	32.36	43.50	-11.14	peak
3	342.3400	42.82	-13.33	29.49	46.00	-16.51	peak
4	500.4500	43.34	-8.01	35.33	46.00	-10.67	peak
5	713.8500	34.94	-3.62	31.32	46.00	-14.68	peak
6	903.0000	41.10	-0.37	40.73	46.00	-5.27	peak

Remark:

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





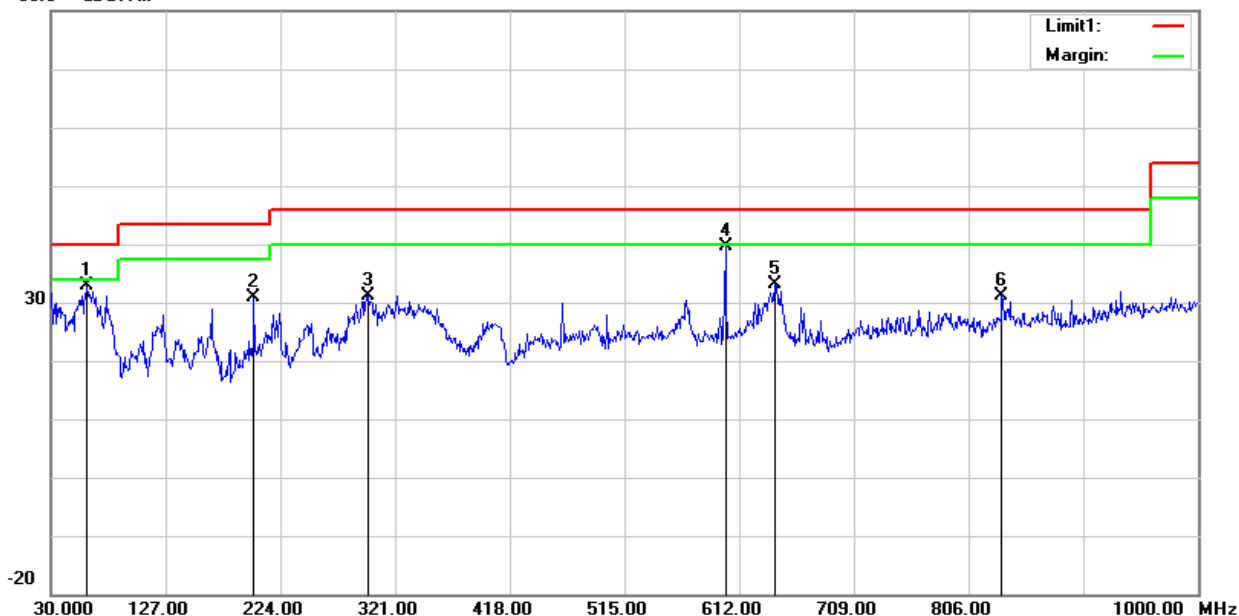
Temperature	23.1(C)	Relative Humidity:	60%RH
Test Voltage	AC 120V/60Hz	Polarization:	Vertical
Test Mode	Mode 1~19(Mode 5 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	60.0700	58.62	-25.86	32.76	40.00	-7.24	peak
2	201.6900	51.76	-21.00	30.76	43.50	-12.74	peak
3	298.6900	46.11	-14.86	31.25	46.00	-14.75	peak
4	600.3600	45.39	-5.84	39.55	46.00	-6.45	peak
5	642.0700	37.94	-4.85	33.09	46.00	-12.91	peak
6	834.1300	31.80	-0.59	31.21	46.00	-14.79	peak

Remark:

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

80.0 dBuV/m





3.2.8 TEST RESULTS (Above 1000 MHz)

Band I 5150-5250MHz

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/ 5180 MHz)										
3250.23	44.27	44.70	6.70	28.20	-9.80	34.47	68.20	-33.73	Pk	Vertical
3250.23	42.19	44.70	6.70	28.20	-9.80	32.39	54.00	-21.61	AV	Vertical
3256.69	44.84	44.70	6.70	28.20	-9.80	35.04	68.20	-33.16	Pk	Horizontal
3256.69	41.48	44.70	6.70	28.20	-9.80	31.68	54.00	-22.32	AV	Horizontal
3994.84	38.73	44.20	7.90	29.70	-6.60	32.13	74.00	-41.87	Pk	Vertical
3994.84	36.60	44.20	7.90	29.70	-6.60	30.00	54.00	-24.00	AV	Vertical
3993.56	39.41	44.20	7.90	29.70	-6.60	32.81	74.00	-41.19	Pk	Horizontal
3993.56	36.47	44.20	7.90	29.70	-6.60	29.87	54.00	-24.13	AV	Horizontal
7235.90	36.45	43.50	11.40	35.50	3.40	39.85	68.20	-28.35	Pk	Vertical
7235.90	33.73	43.50	11.40	35.50	3.40	37.13	54.00	-16.87	AV	Vertical
7221.79	37.48	43.50	11.40	35.50	3.40	40.88	68.20	-27.32	Pk	Horizontal
7221.79	34.46	43.50	11.40	35.50	3.40	37.86	54.00	-16.14	AV	Horizontal
10360.15	39.35	44.50	13.80	38.80	8.10	47.45	68.20	-20.75	Pk	Vertical
10360.15	36.34	44.50	13.80	38.80	8.10	44.44	54.00	-9.56	AV	Vertical
10360.31	39.84	44.50	13.80	38.80	8.10	47.94	68.20	-20.26	Pk	Horizontal
10360.31	36.28	44.50	13.80	38.80	8.10	44.38	54.00	-9.62	AV	Horizontal
11029.20	32.85	43.60	14.30	39.50	10.20	43.05	74.00	-30.95	Pk	Vertical
11029.20	31.10	43.60	14.30	39.50	10.20	41.30	54.00	-12.70	AV	Vertical
11027.36	32.72	43.60	14.30	39.50	10.20	42.92	74.00	-31.08	Pk	Horizontal
11027.36	29.78	43.60	14.30	39.50	10.20	39.98	54.00	-14.02	AV	Horizontal
13287.44	31.68	42.60	15.90	38.90	12.20	43.88	74.00	-30.12	Pk	Vertical
13287.44	29.37	42.60	15.90	38.90	12.20	41.57	54.00	-12.43	AV	Vertical
13285.39	31.66	42.60	15.90	38.90	12.20	43.86	74.00	-30.14	Pk	Horizontal
13285.39	28.92	42.60	15.90	38.90	12.20	41.12	54.00	-12.88	AV	Horizontal
Mid Channel (802.11ax20/ 5200 MHz)										
3255.07	44.73	44.70	6.70	28.20	-9.80	34.93	68.20	-33.27	Pk	Vertical
3255.07	41.56	44.70	6.70	28.20	-9.80	31.76	54.00	-22.24	AV	Vertical
3260.25	44.36	44.70	6.70	28.20	-9.80	34.56	74.00	-39.44	Pk	Horizontal
3260.25	40.76	44.70	6.70	28.20	-9.80	30.96	54.00	-23.04	AV	Horizontal
3993.88	39.87	44.20	7.90	29.70	-6.60	33.27	74.00	-40.73	Pk	Vertical
3993.88	36.13	44.20	7.90	29.70	-6.60	29.53	54.00	-24.47	AV	Vertical
3991.57	39.40	44.20	7.90	29.70	-6.60	32.80	74.00	-41.20	Pk	Horizontal
3991.57	36.27	44.20	7.90	29.70	-6.60	29.67	54.00	-24.33	AV	Horizontal
7227.70	37.09	43.50	11.40	35.50	3.40	40.49	68.20	-27.71	Pk	Vertical
7227.70	33.43	43.50	11.40	35.50	3.40	36.83	54.00	-17.17	AV	Vertical
7230.59	37.14	43.50	11.40	35.50	3.40	40.54	68.20	-27.66	Pk	Horizontal
7230.59	34.54	43.50	11.40	35.50	3.40	37.94	54.00	-16.06	AV	Horizontal
10400.35	39.35	44.50	13.80	38.80	8.10	47.45	68.20	-20.75	Pk	Vertical
10400.35	36.65	44.50	13.80	38.80	8.10	44.75	54.00	-9.25	AV	Vertical
10400.35	39.73	44.50	13.80	38.80	8.10	47.83	68.20	-20.37	Pk	Horizontal
10400.35	36.06	44.50	13.80	38.80	8.10	44.16	54.00	-9.84	AV	Horizontal
11032.66	32.87	43.60	14.30	39.50	10.20	43.07	74.00	-30.93	Pk	Vertical
11032.66	30.49	43.60	14.30	39.50	10.20	40.69	54.00	-13.31	AV	Vertical
11026.26	33.91	43.60	14.30	39.50	10.20	44.11	74.00	-29.89	Pk	Horizontal
11026.26	30.54	43.60	14.30	39.50	10.20	40.74	54.00	-13.26	AV	Horizontal
13288.46	32.91	42.60	15.90	38.90	12.20	45.11	74.00	-28.89	Pk	Vertical
13288.46	29.16	42.60	15.90	38.90	12.20	41.36	54.00	-12.64	AV	Vertical
13280.62	32.51	42.60	15.90	38.90	12.20	44.71	74.00	-29.29	Pk	Horizontal
13280.62	28.80	42.60	15.90	38.90	12.20	41.00	54.00	-13.00	AV	Horizontal



High Channel (802.11ax20/ 5240 MHz)										
3245.89	44.91	44.70	6.70	28.20	-9.80	35.11	68.20	-33.09	Pk	Vertical
3245.89	41.95	44.70	6.70	28.20	-9.80	32.15	54.00	-21.85	AV	Vertical
3252.36	43.83	44.70	6.70	28.20	-9.80	34.03	68.20	-34.17	Pk	Horizontal
3252.36	41.96	44.70	6.70	28.20	-9.80	32.16	54.00	-21.84	AV	Horizontal
3996.95	40.03	44.20	7.90	29.70	-6.60	33.43	74.00	-40.57	Pk	Vertical
3996.95	36.31	44.20	7.90	29.70	-6.60	29.71	54.00	-24.29	AV	Vertical
3997.56	39.06	44.20	7.90	29.70	-6.60	32.46	74.00	-41.54	Pk	Horizontal
3997.56	37.07	44.20	7.90	29.70	-6.60	30.47	54.00	-23.53	AV	Horizontal
7221.20	37.40	43.50	11.40	35.50	3.40	40.80	68.20	-27.40	Pk	Vertical
7221.20	34.55	43.50	11.40	35.50	3.40	37.95	54.00	-16.05	AV	Vertical
7233.93	36.56	43.50	11.40	35.50	3.40	39.96	68.20	-28.24	Pk	Horizontal
7233.93	34.43	43.50	11.40	35.50	3.40	37.83	54.00	-16.17	AV	Horizontal
10480.02	39.21	44.50	13.80	38.80	8.10	47.31	68.20	-20.89	Pk	Vertical
10480.02	36.82	44.50	13.80	38.80	8.10	44.92	54.00	-9.08	AV	Vertical
10480.07	39.78	44.50	13.80	38.80	8.10	47.88	68.20	-20.32	Pk	Horizontal
10480.07	36.46	44.50	13.80	38.80	8.10	44.56	54.00	-9.44	AV	Horizontal
11033.05	33.73	43.60	14.30	39.50	10.20	43.93	74.00	-30.07	Pk	Vertical
11033.05	30.29	43.60	14.30	39.50	10.20	40.49	54.00	-13.51	AV	Vertical
11019.58	33.82	43.60	14.30	39.50	10.20	44.02	74.00	-29.98	Pk	Horizontal
11019.58	30.01	43.60	14.30	39.50	10.20	40.21	54.00	-13.79	AV	Horizontal
13297.35	32.39	42.60	15.90	38.90	12.20	44.59	74.00	-29.41	Pk	Vertical
13297.35	29.62	42.60	15.90	38.90	12.20	41.82	54.00	-12.18	AV	Vertical
13285.27	32.85	42.60	15.90	38.90	12.20	45.05	74.00	-28.95	Pk	Horizontal
13285.27	28.68	42.60	15.90	38.90	12.20	40.88	54.00	-13.12	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Scan with 802.11a,802.11n (HT-20),802.11n (HT-40), 802.11ac (VHT-20),802.11ac (VHT-40), 802.11ac (VHT-80) , 802.11ax (HE-20), 802.11ax (HE-40), 802.11ax (HE-80), 802.11ax (HE-160) the worst case is 802.11ax (HE-20).
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.
4. Pre-scan both the SISO and MIMO mode, only the worst-case results were reported.



Band IV(5.725-5.850) GHz

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 (802.11ax20/ 5745 MHz)										
3248.35	43.92	44.70	6.70	28.20	-9.80	34.12	68.20	-34.08	Pk	Vertical
3248.35	41.95	44.70	6.70	28.20	-9.80	32.15	54.00	-21.85	AV	Vertical
3260.75	44.38	44.70	6.70	28.20	-9.80	34.58	74.00	-39.42	Pk	Horizontal
3260.75	42.22	44.70	6.70	28.20	-9.80	32.42	54.00	-21.58	AV	Horizontal
3989.26	40.08	44.20	7.90	29.70	-6.60	33.48	74.00	-40.52	Pk	Vertical
3989.26	36.68	44.20	7.90	29.70	-6.60	30.08	54.00	-23.92	AV	Vertical
3993.86	38.66	44.20	7.90	29.70	-6.60	32.06	74.00	-41.94	Pk	Horizontal
3993.86	36.09	44.20	7.90	29.70	-6.60	29.49	54.00	-24.51	AV	Horizontal
7228.95	36.46	43.50	11.40	35.50	3.40	39.86	68.20	-28.34	Pk	Vertical
7228.95	34.23	43.50	11.40	35.50	3.40	37.63	54.00	-16.37	AV	Vertical
7216.53	37.24	43.50	11.40	35.50	3.40	40.64	68.20	-27.56	Pk	Horizontal
7216.53	34.59	43.50	11.40	35.50	3.40	37.99	54.00	-16.01	AV	Horizontal
10360.29	40.07	44.50	13.80	38.80	8.10	48.17	68.20	-20.03	Pk	Vertical
10360.29	35.81	44.50	13.80	38.80	8.10	43.91	54.00	-10.09	AV	Vertical
10360.34	39.63	44.50	13.80	38.80	8.10	47.73	68.20	-20.47	Pk	Horizontal
10360.34	36.08	44.50	13.80	38.80	8.10	44.18	54.00	-9.82	AV	Horizontal
11017.71	32.77	43.60	14.30	39.50	10.20	42.97	74.00	-31.03	Pk	Vertical
11017.71	30.99	43.60	14.30	39.50	10.20	41.19	54.00	-12.81	AV	Vertical
11025.24	33.82	43.60	14.30	39.50	10.20	44.02	74.00	-29.98	Pk	Horizontal
11025.24	30.68	43.60	14.30	39.50	10.20	40.88	54.00	-13.12	AV	Horizontal
13285.54	32.67	42.60	15.90	38.90	12.20	44.87	74.00	-29.13	Pk	Vertical
13285.54	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13288.36	32.57	42.60	15.90	38.90	12.20	44.77	74.00	-29.23	Pk	Horizontal
13288.36	29.03	42.60	15.90	38.90	12.20	41.23	54.00	-12.77	AV	Horizontal
Mid Channel (802.11ax20/ 5785MHz)										
3252.19	44.15	44.70	6.70	28.20	-9.80	34.35	68.20	-33.85	Pk	Vertical
3252.19	41.84	44.70	6.70	28.20	-9.80	32.04	54.00	-21.96	AV	Vertical
3251.75	43.82	44.70	6.70	28.20	-9.80	34.02	68.20	-34.18	Pk	Horizontal
3251.75	41.06	44.70	6.70	28.20	-9.80	31.26	54.00	-22.74	AV	Horizontal
3995.08	39.04	44.20	7.90	29.70	-6.60	32.44	74.00	-41.56	Pk	Vertical
3995.08	35.85	44.20	7.90	29.70	-6.60	29.25	54.00	-24.75	AV	Vertical
3998.20	39.65	44.20	7.90	29.70	-6.60	33.05	74.00	-40.95	Pk	Horizontal
3998.20	37.04	44.20	7.90	29.70	-6.60	30.44	54.00	-23.56	AV	Horizontal
7225.64	37.59	43.50	11.40	35.50	3.40	40.99	68.20	-27.21	Pk	Vertical
7225.64	34.23	43.50	11.40	35.50	3.40	37.63	54.00	-16.37	AV	Vertical
7229.96	36.46	43.50	11.40	35.50	3.40	39.86	68.20	-28.34	Pk	Horizontal
7229.96	33.80	43.50	11.40	35.50	3.40	37.20	54.00	-16.80	AV	Horizontal
10400.03	39.18	44.50	13.80	38.80	8.10	47.28	68.20	-20.92	Pk	Vertical
10400.03	36.04	44.50	13.80	38.80	8.10	44.14	54.00	-9.86	AV	Vertical
10400.12	39.74	44.50	13.80	38.80	8.10	47.84	68.20	-20.36	Pk	Horizontal
10400.12	36.06	44.50	13.80	38.80	8.10	44.16	54.00	-9.84	AV	Horizontal
11028.38	33.93	43.60	14.30	39.50	10.20	44.13	74.00	-29.87	Pk	Vertical
11028.38	30.29	43.60	14.30	39.50	10.20	40.49	54.00	-13.51	AV	Vertical
11033.52	32.98	43.60	14.30	39.50	10.20	43.18	74.00	-30.82	Pk	Horizontal
11033.52	31.11	43.60	14.30	39.50	10.20	41.31	54.00	-12.69	AV	Horizontal
13285.50	31.80	42.60	15.90	38.90	12.20	44.00	74.00	-30.00	Pk	Vertical
13285.50	29.77	42.60	15.90	38.90	12.20	41.97	54.00	-12.03	AV	Vertical
13288.45	32.02	42.60	15.90	38.90	12.20	44.22	74.00	-29.78	Pk	Horizontal
13288.45	29.87	42.60	15.90	38.90	12.20	42.07	54.00	-11.93	AV	Horizontal



High Channel (802.11ax20/ 5825 MHz)										
3258.51	44.79	44.70	6.70	28.20	-9.80	34.99	68.20	-33.21	Pk	Vertical
3258.51	42.18	44.70	6.70	28.20	-9.80	32.38	54.00	-21.62	AV	Vertical
3247.28	44.64	44.70	6.70	28.20	-9.80	34.84	68.20	-33.36	Pk	Horizontal
3247.28	41.66	44.70	6.70	28.20	-9.80	31.86	54.00	-22.14	AV	Horizontal
3999.21	39.16	44.20	7.90	29.70	-6.60	32.56	74.00	-41.44	Pk	Vertical
3999.21	37.07	44.20	7.90	29.70	-6.60	30.47	54.00	-23.53	AV	Vertical
3984.14	39.66	44.20	7.90	29.70	-6.60	33.06	74.00	-40.94	Pk	Horizontal
3984.14	37.05	44.20	7.90	29.70	-6.60	30.45	54.00	-23.55	AV	Horizontal
7220.03	37.49	43.50	11.40	35.50	3.40	40.89	68.20	-27.31	Pk	Vertical
7220.03	34.68	43.50	11.40	35.50	3.40	38.08	54.00	-15.92	AV	Vertical
7230.36	36.46	43.50	11.40	35.50	3.40	39.86	68.20	-28.34	Pk	Horizontal
7230.36	34.05	43.50	11.40	35.50	3.40	37.45	54.00	-16.55	AV	Horizontal
10480.42	40.19	44.50	13.80	38.80	8.10	48.29	68.20	-19.91	Pk	Vertical
10480.42	36.99	44.50	13.80	38.80	8.10	45.09	54.00	-8.91	AV	Vertical
10480.18	40.16	44.50	13.80	38.80	8.10	48.26	68.20	-19.94	Pk	Horizontal
10480.18	35.68	44.50	13.80	38.80	8.10	43.78	54.00	-10.22	AV	Horizontal
11032.72	33.98	43.60	14.30	39.50	10.20	44.18	74.00	-29.82	Pk	Vertical
11032.72	30.21	43.60	14.30	39.50	10.20	40.41	54.00	-13.59	AV	Vertical
11022.28	33.42	43.60	14.30	39.50	10.20	43.62	74.00	-30.38	Pk	Horizontal
11022.28	29.87	43.60	14.30	39.50	10.20	40.07	54.00	-13.93	AV	Horizontal
13285.10	32.01	42.60	15.90	38.90	12.20	44.21	74.00	-29.79	Pk	Vertical
13285.10	29.22	42.60	15.90	38.90	12.20	41.42	54.00	-12.58	AV	Vertical
13284.16	33.02	42.60	15.90	38.90	12.20	45.22	74.00	-28.78	Pk	Horizontal
13284.16	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Horizontal

Remark:

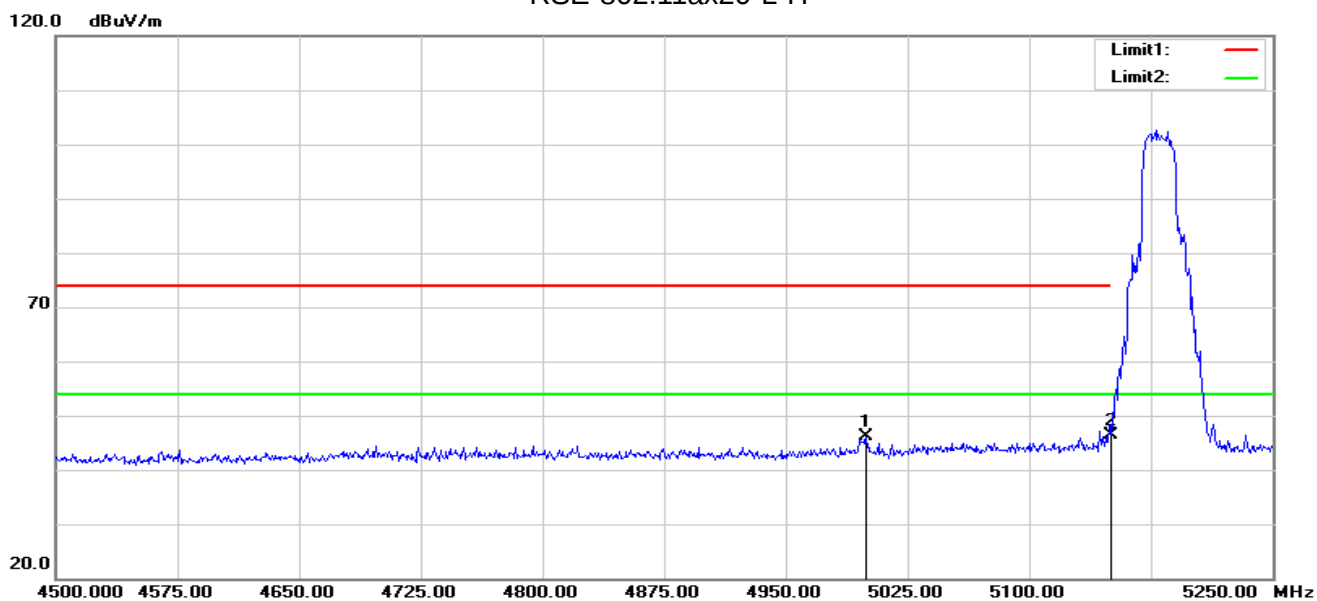
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Scan with 802.11a,802.11n (HT-20),802.11n (HT-40), 802.11ac (VHT-20),802.11ac (VHT-40), 802.11ac (VHT-80) , 802.11ax (HE-20), 802.11ax (HE-40), 802.11ax (HE-80), 802.11ax (HE-160) the worst case is 802.11ax (HE-20).
3. The frequency emission 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.
4. Pre-scan both the SISO and MIMO mode, only the worst-case results were reported.



3.2.9 RESTRICTED FREQUENCY BANDS AND BAND EDGE

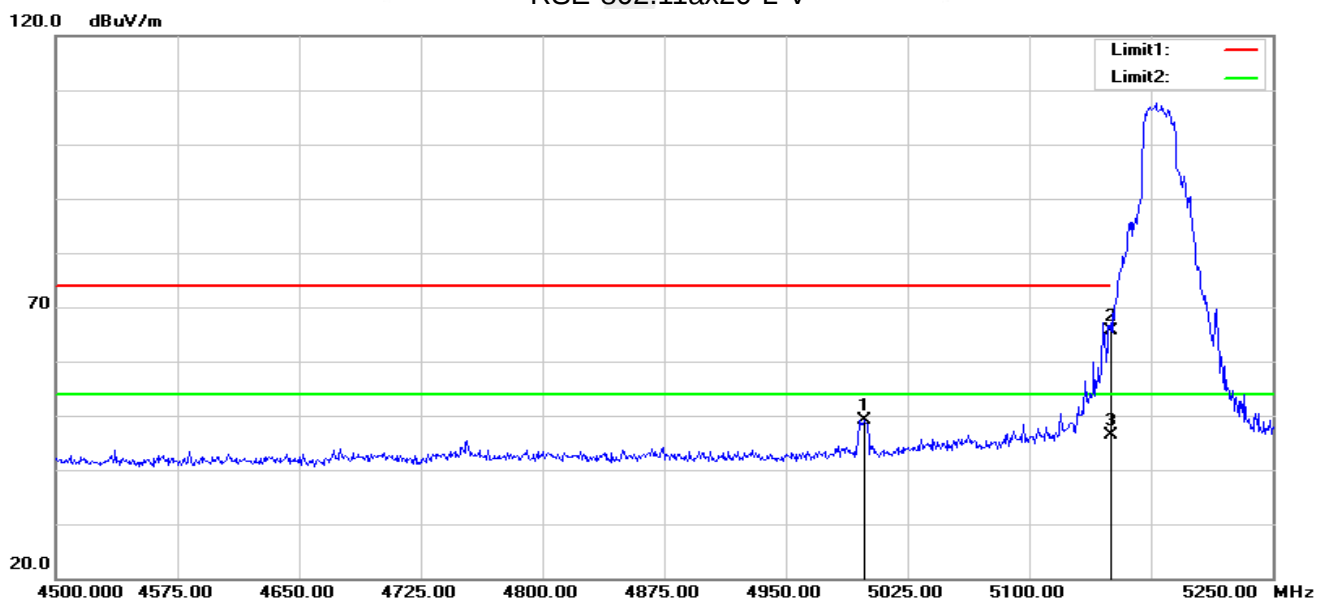
Band I 5150-5250MHz

RSE-802.11ax20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4999.500	52.41	-6.19	46.22	74.00	-27.78	peak
2	5150.000	52.20	-5.73	46.47	74.00	-27.53	peak

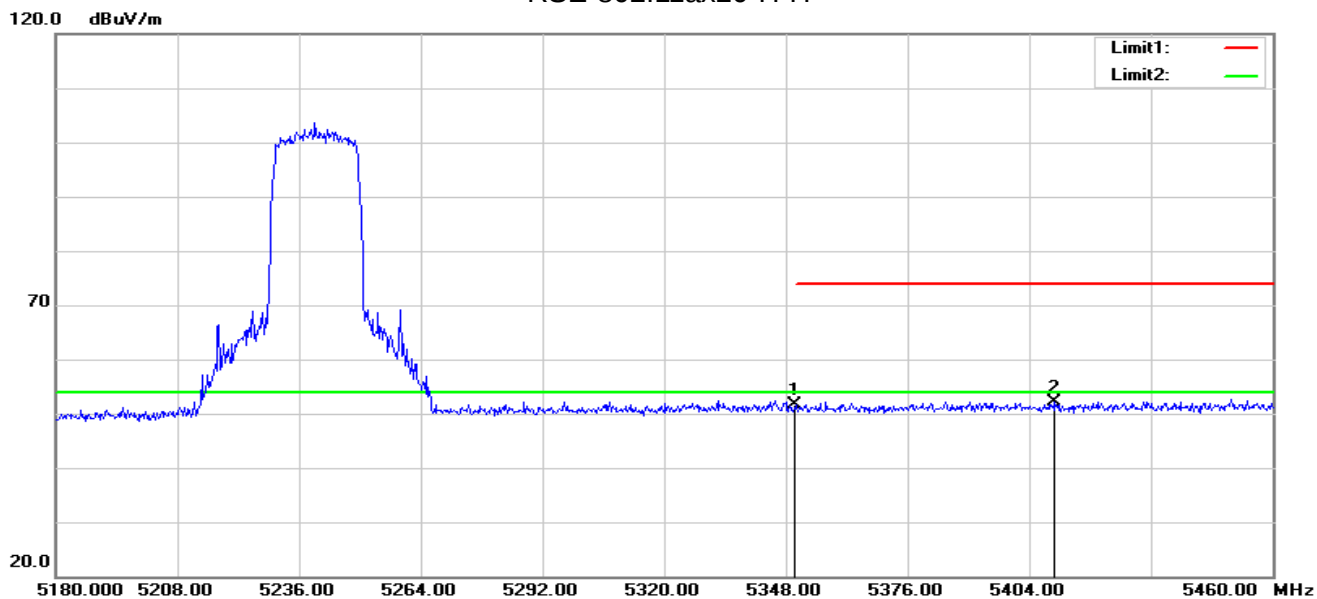
RSE-802.11ax20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4998.750	55.38	-6.20	49.18	74.00	-24.82	peak
2	5150.000	71.28	-5.73	65.55	74.00	-8.45	peak
3	5150.000	52.08	-5.73	46.35	54.00	-7.65	AVG

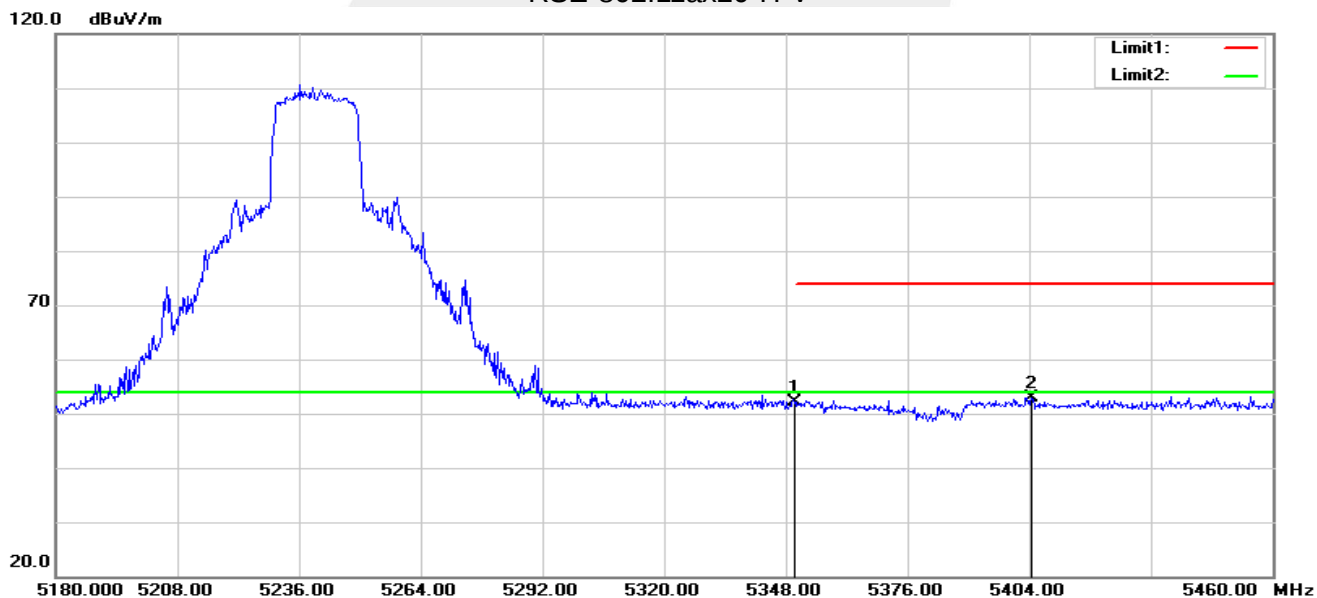


RSE-802.11ax20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.84	-5.23	51.61	74.00	-22.39	peak
2	5409.880	57.35	-5.23	52.12	74.00	-21.88	peak

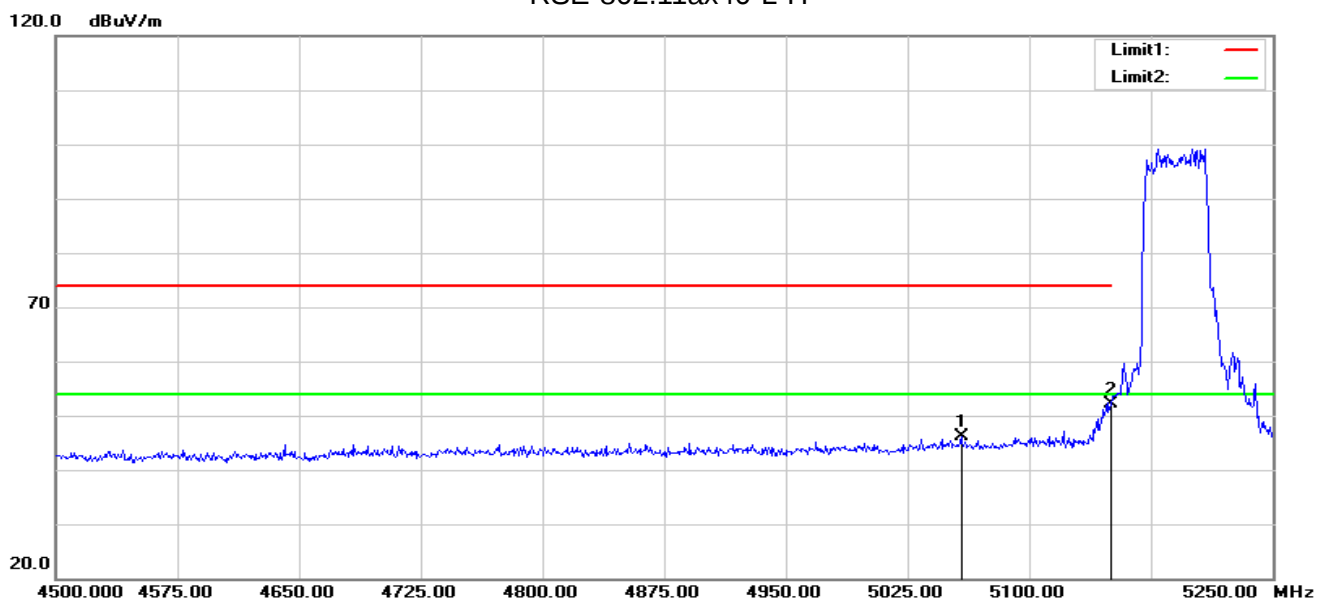
RSE-802.11ax20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	57.48	-5.23	52.25	74.00	-21.75	peak
2	5404.560	58.20	-5.24	52.96	74.00	-21.04	peak

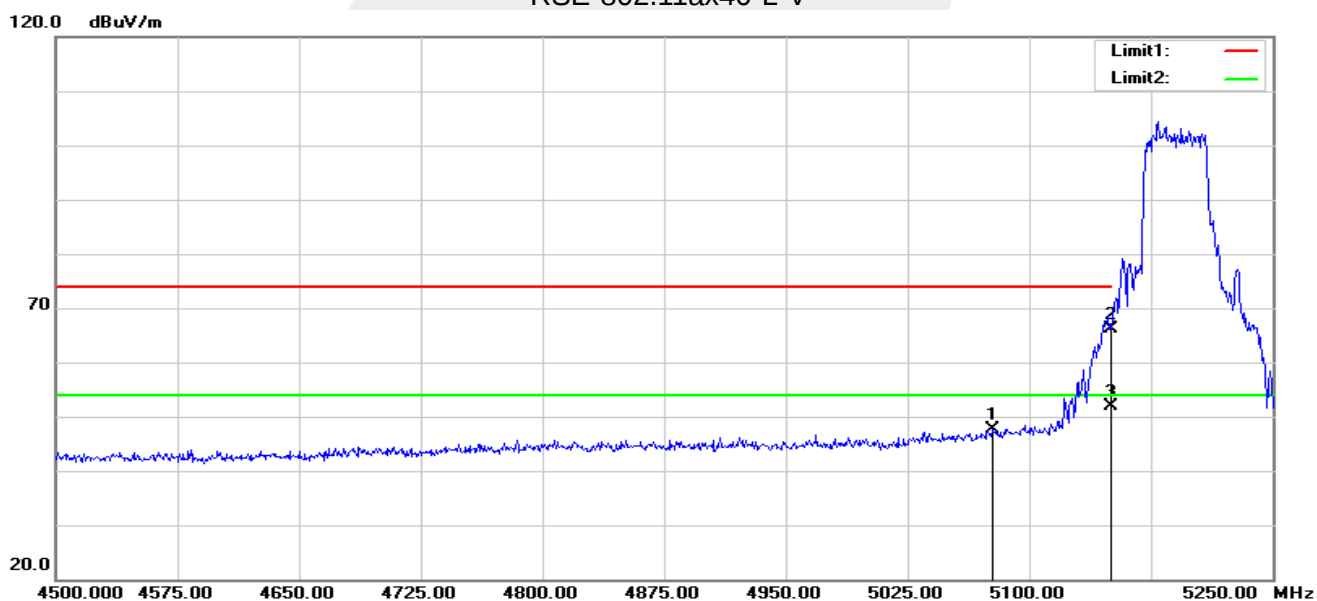


RSE-802.11ax40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5058.000	51.96	-5.93	46.03	74.00	-27.97	peak
2	5150.000	57.90	-5.73	52.17	74.00	-21.83	peak

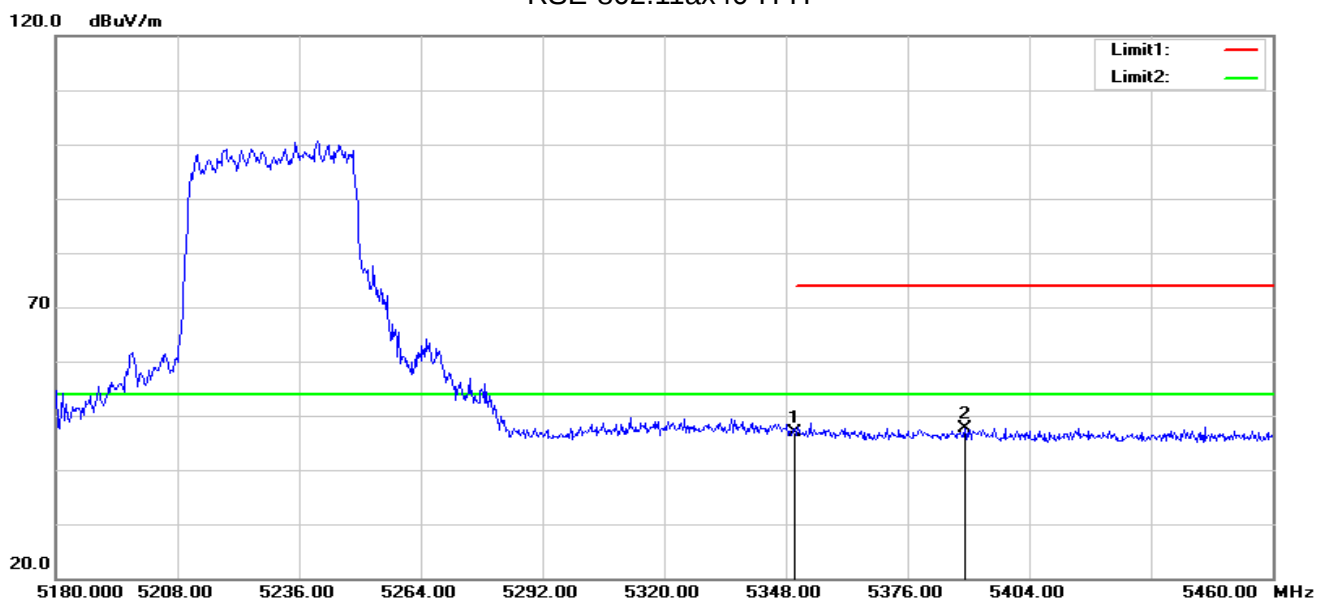
RSE-802.11ax40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5077.500	53.57	-5.84	47.73	74.00	-26.27	peak
2	5150.000	71.87	-5.73	66.14	74.00	-7.86	peak
3	5150.000	57.67	-5.73	51.94	54.00	-2.06	AVG

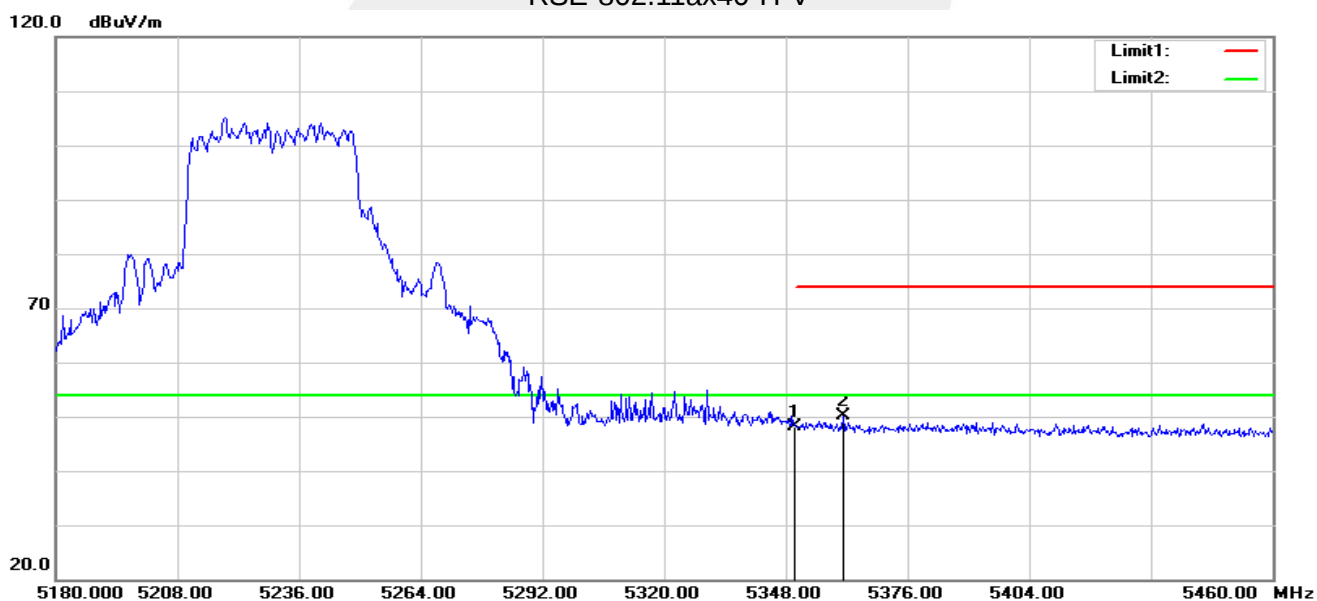


RSE-802.11ax40-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	52.19	-5.23	46.96	74.00	-27.04	peak
2	5389.160	53.00	-5.25	47.75	74.00	-26.25	peak

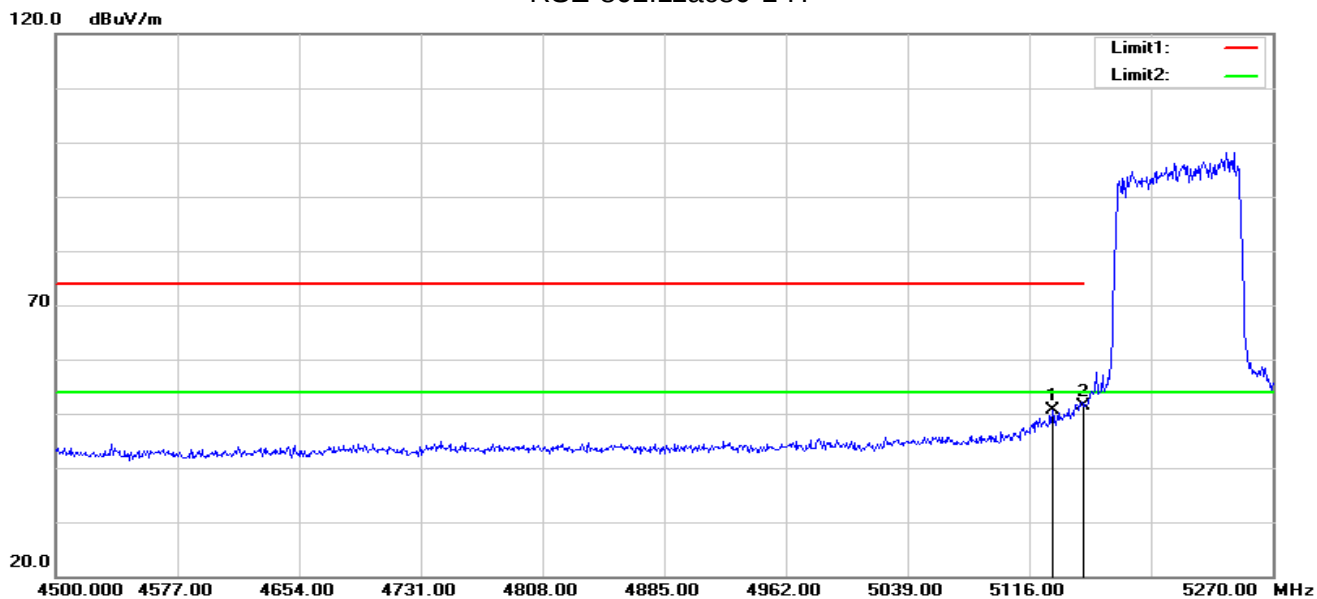
RSE-802.11ax40-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	53.46	-5.23	48.23	74.00	-25.77	peak
2	5361.160	55.38	-5.23	50.15	74.00	-23.85	peak

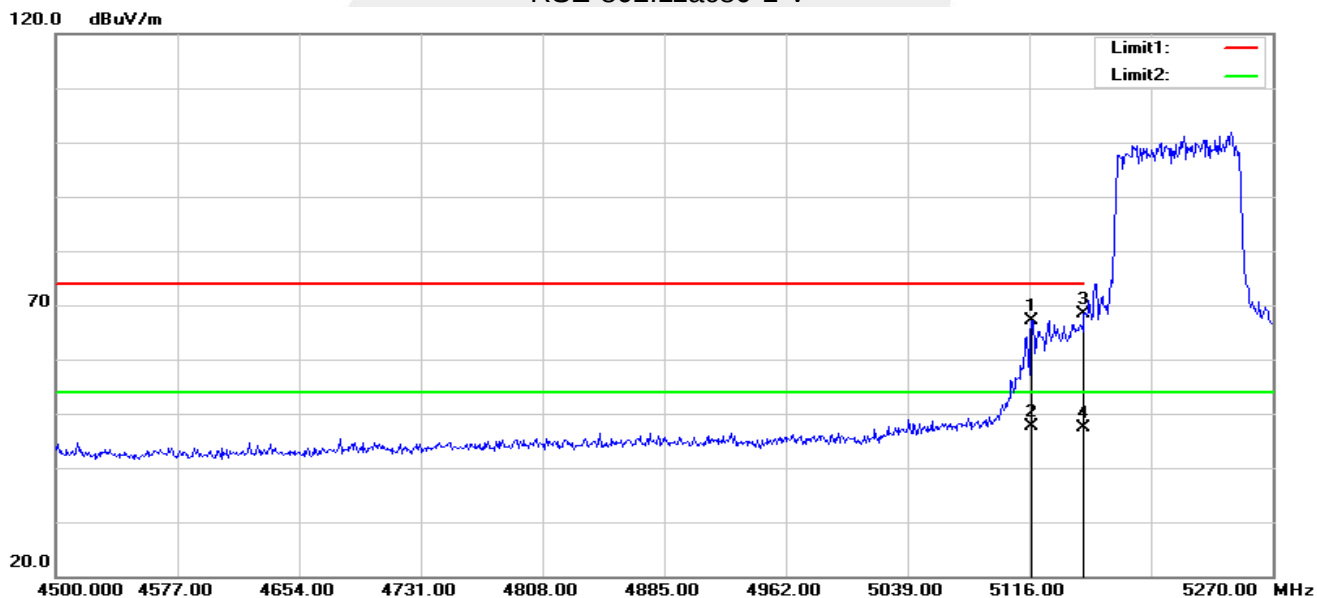


RSE-802.11ac80-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5130.630	56.34	-5.74	50.60	74.00	-23.40	peak
2	5150.000	57.10	-5.73	51.37	74.00	-22.63	peak

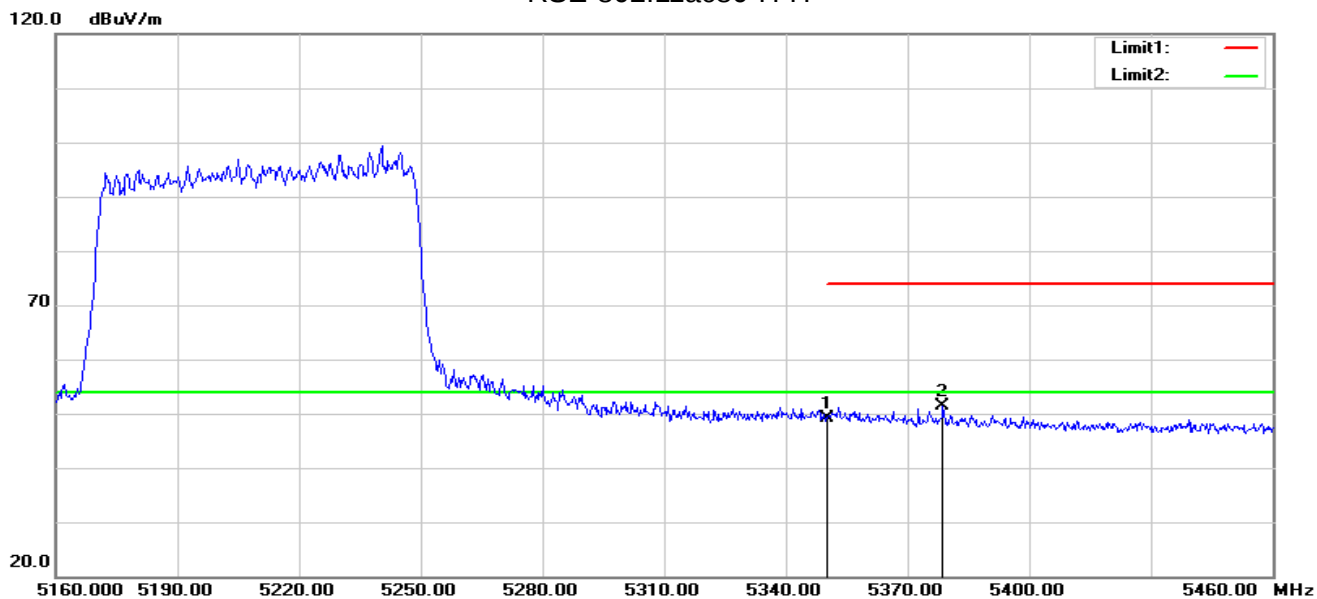
RSE-802.11ac80-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5117.540	72.95	-5.74	67.21	74.00	-6.79	peak
2	5117.540	53.27	-5.74	47.53	54.00	-6.47	AVG
3	5150.000	74.17	-5.73	68.44	74.00	-5.56	peak
4	5150.000	53.05	-5.73	47.32	54.00	-6.68	AVG

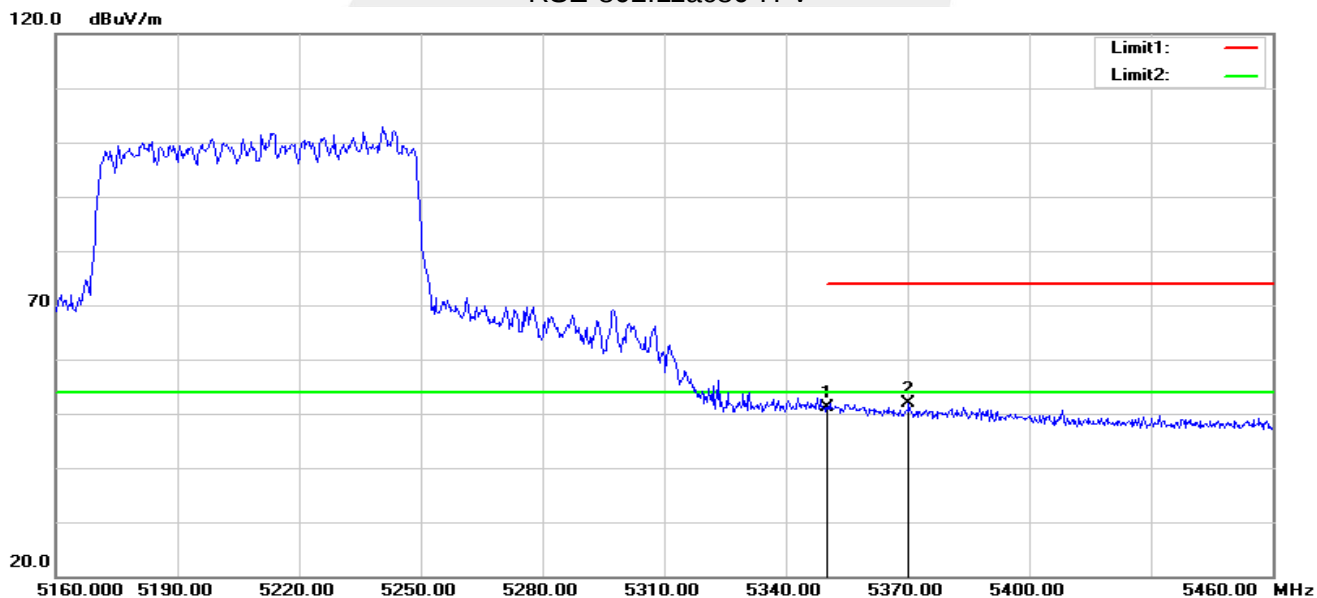


RSE-802.11ac80-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.41	-5.23	49.18	74.00	-24.82	peak
2	5378.700	56.59	-5.24	51.35	74.00	-22.65	peak

RSE-802.11ac80-H-V



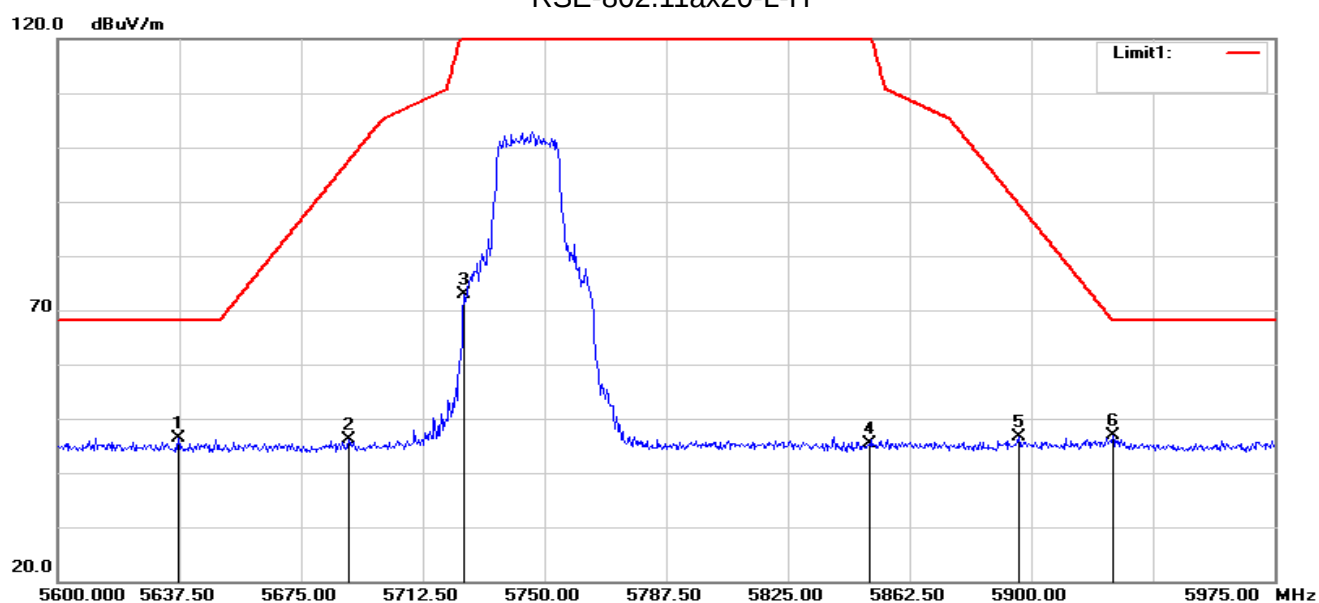
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.46	-5.23	51.23	74.00	-22.77	peak
2	5370.300	57.01	-5.23	51.78	74.00	-22.22	peak

Note: All modes have been tested. Only the worst mode shown in the report.



Band IV(5.725-5.85 GHz)

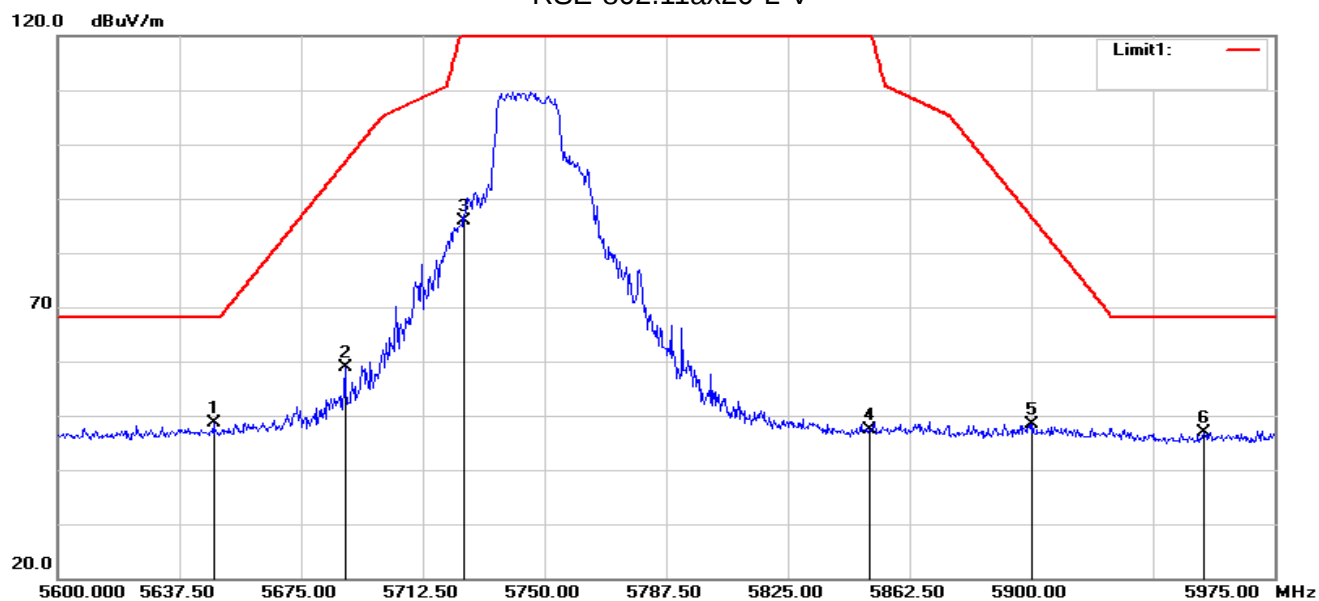
RSE-802.11ax20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5637.125	51.10	-4.68	46.42	68.20	-21.78	peak
2	5689.625	50.74	-4.67	46.07	97.52	-51.45	peak
3	5725.000	77.55	-4.57	72.98	122.20	-49.22	peak
4	5850.000	49.60	-4.10	45.50	122.20	-76.70	peak
5	5896.250	50.58	-3.90	46.68	89.48	-42.80	peak
6	5925.125	50.77	-3.92	46.85	68.20	-21.35	peak



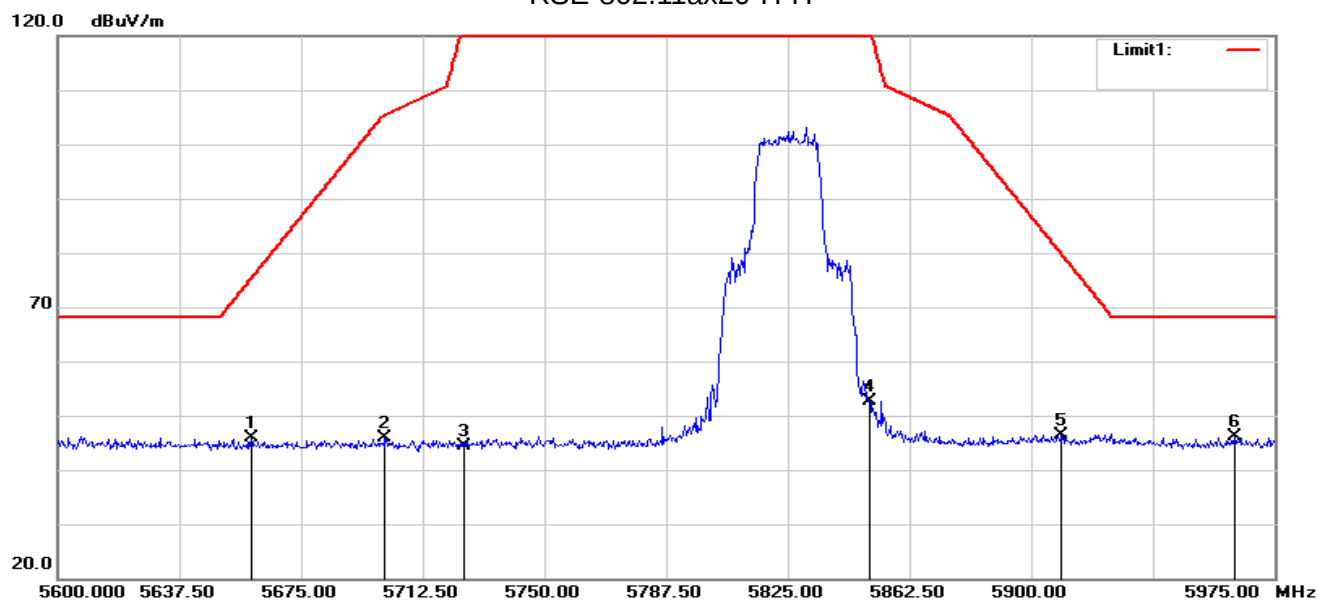
RSE-802.11ax20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.000	53.25	-4.68	48.57	68.20	-19.63	peak
2	5688.500	63.50	-4.67	58.83	96.69	-37.86	peak
3	5725.000	90.35	-4.57	85.78	122.20	-36.42	peak
4	5850.000	51.55	-4.10	47.45	122.20	-74.75	peak
5	5900.375	52.21	-3.88	48.33	86.42	-38.09	peak
6	5953.250	50.84	-3.97	46.87	68.20	-21.33	peak



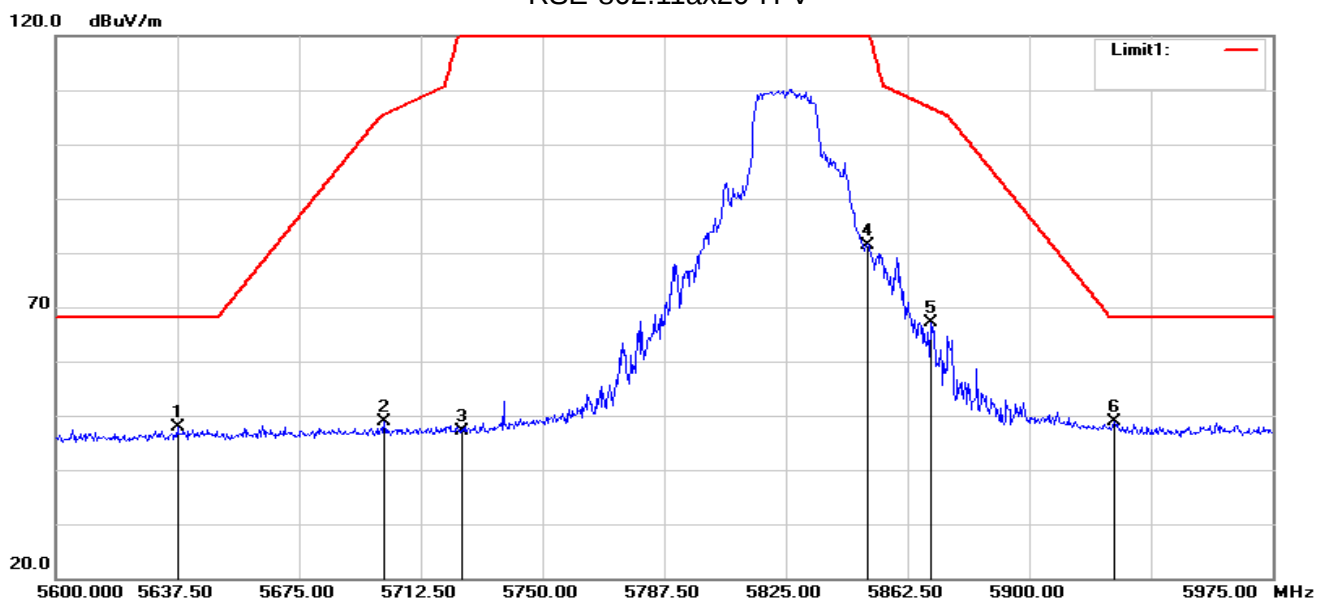
RSE-802.11ax20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5659.625	50.50	-4.67	45.83	75.32	-29.49	peak
2	5700.875	50.51	-4.66	45.85	105.45	-59.60	peak
3	5725.000	48.87	-4.57	44.30	122.20	-77.90	peak
4	5850.000	56.74	-4.10	52.64	122.20	-69.56	peak
5	5909.375	50.27	-3.89	46.38	79.76	-33.38	peak
6	5962.625	50.00	-3.99	46.01	68.20	-22.19	peak



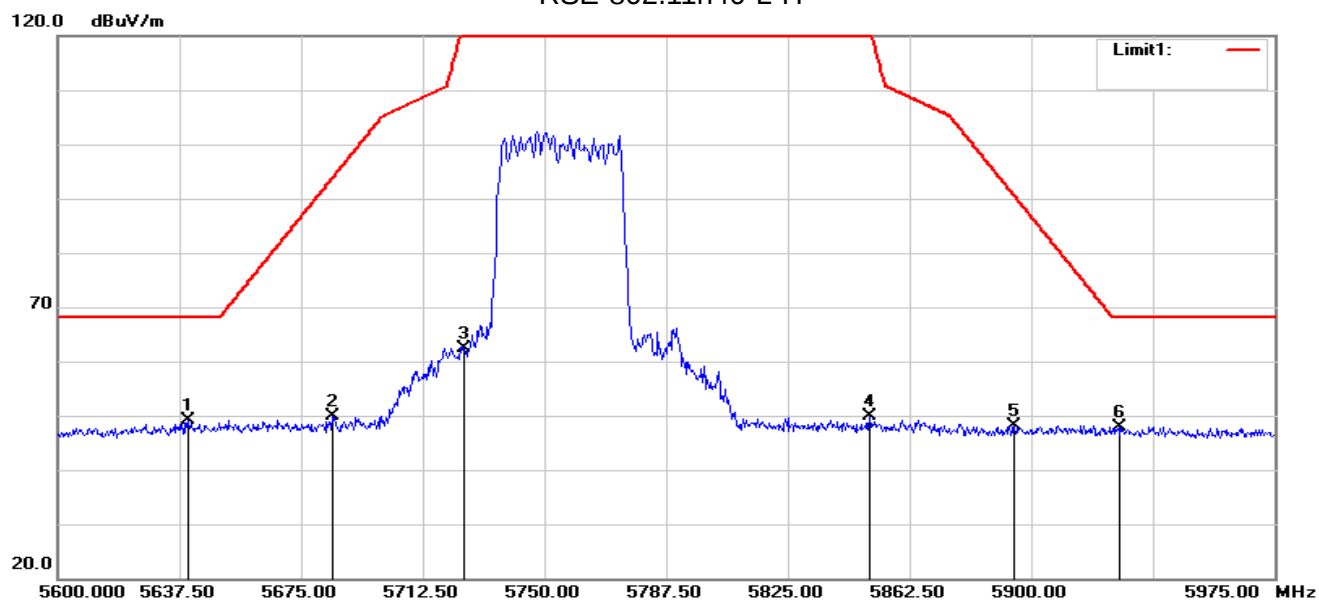
RSE-802.11ax20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5637.500	52.60	-4.69	47.91	68.20	-20.29	peak
2	5701.250	53.45	-4.66	48.79	105.55	-56.76	peak
3	5725.000	51.72	-4.57	47.15	122.20	-75.05	peak
4	5850.000	85.60	-4.10	81.50	122.20	-40.70	peak
5	5869.625	71.08	-4.02	67.06	106.70	-39.64	peak
6	5926.250	52.71	-3.93	48.78	68.20	-19.42	peak



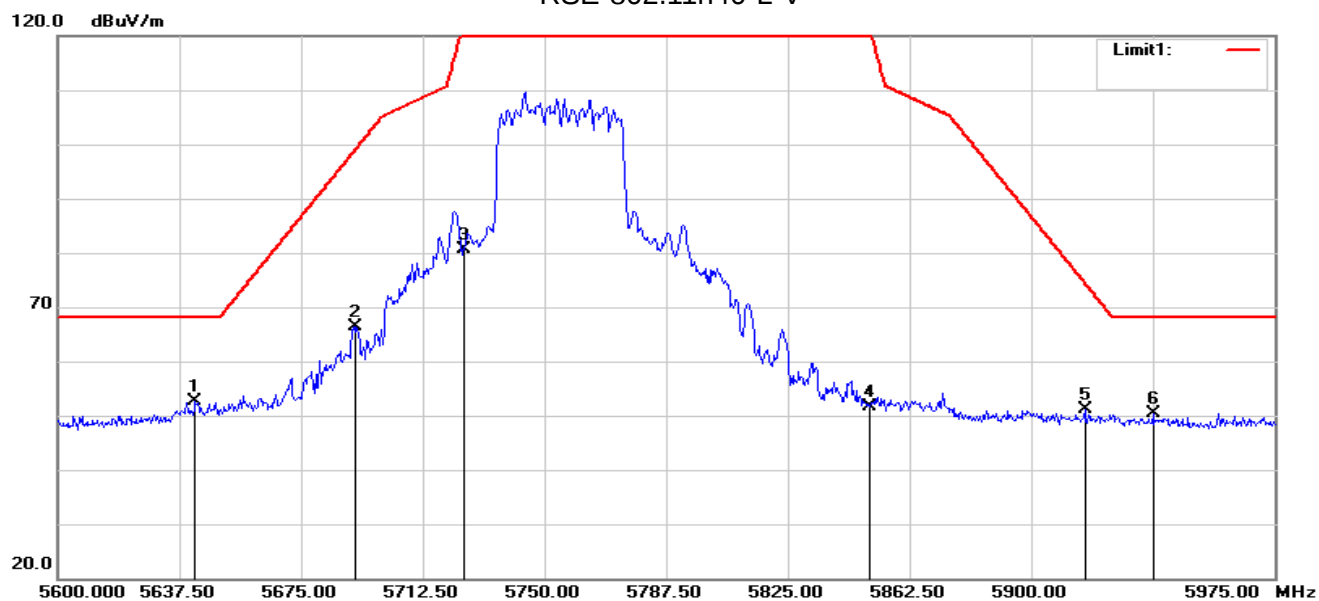
RSE-802.11n40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5640.125	53.87	-4.69	49.18	68.20	-19.02	peak
2	5684.750	54.63	-4.66	49.97	93.92	-43.95	peak
3	5725.000	67.02	-4.57	62.45	122.20	-59.75	peak
4	5850.000	53.87	-4.10	49.77	122.20	-72.43	peak
5	5894.750	52.11	-3.90	48.21	90.59	-42.38	peak
6	5927.000	51.77	-3.93	47.84	68.20	-20.36	peak



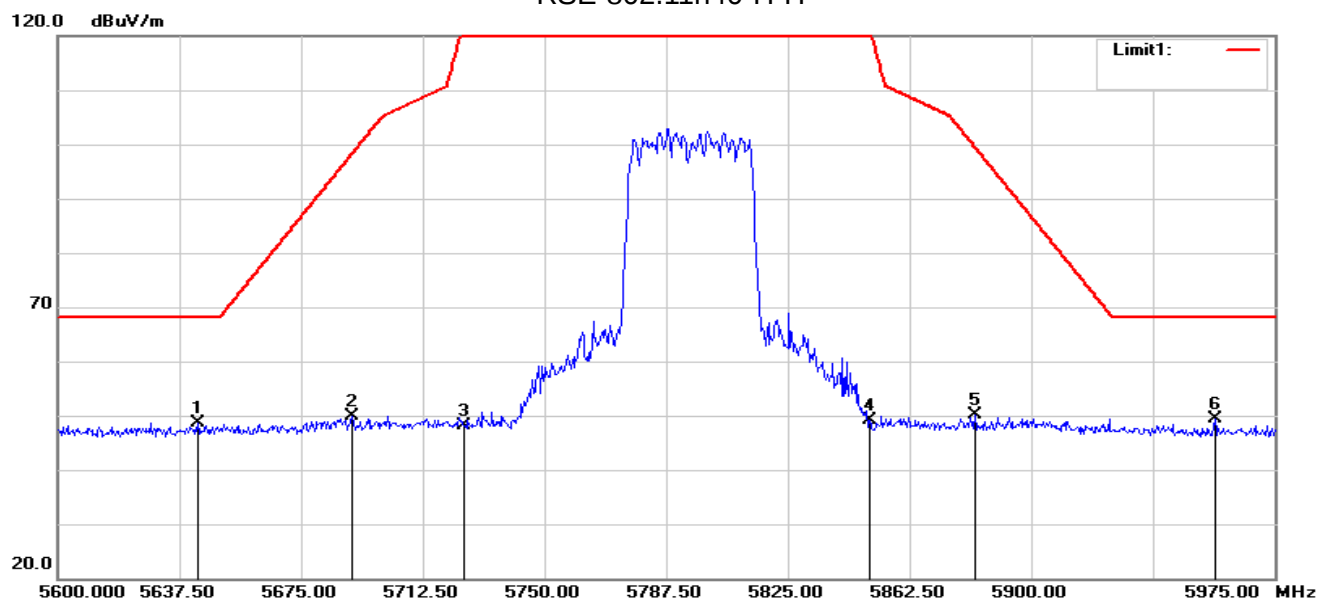
RSE-802.11n40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5642.375	57.31	-4.68	52.63	68.20	-15.57	peak
2	5691.875	71.11	-4.66	66.45	99.19	-32.74	peak
3	5725.000	85.25	-4.57	80.68	122.20	-41.52	peak
4	5850.000	55.74	-4.10	51.64	122.20	-70.56	peak
5	5916.500	55.09	-3.90	51.19	74.49	-23.30	peak
6	5937.500	54.39	-3.94	50.45	68.20	-17.75	peak



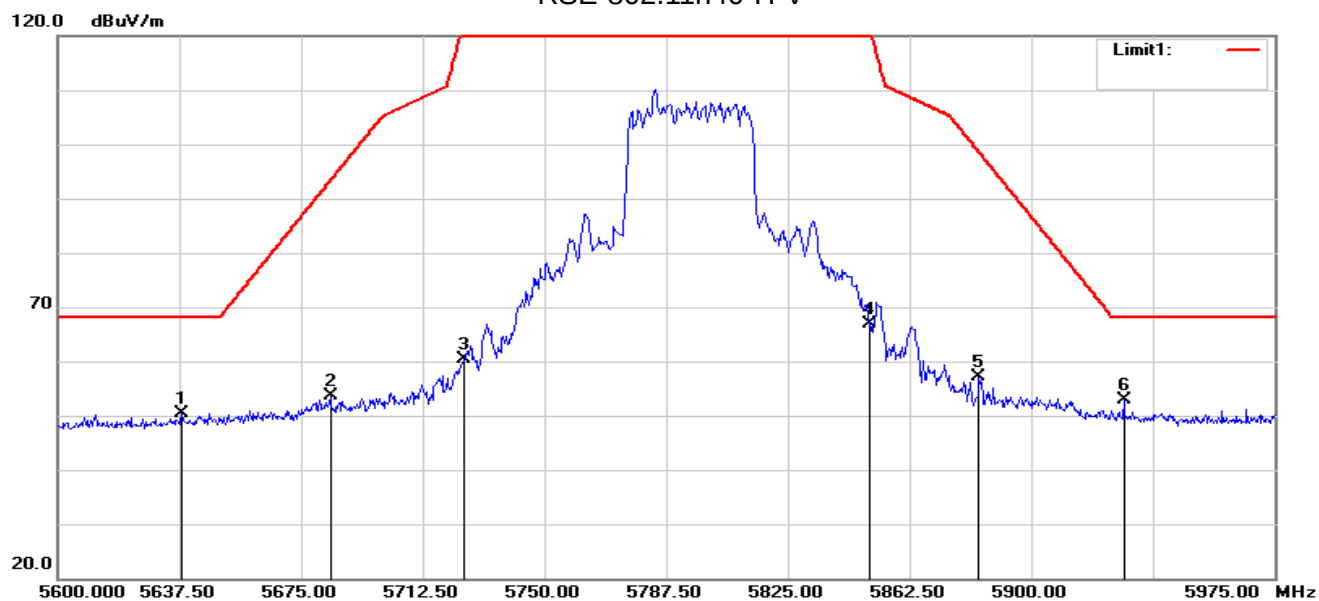
RSE-802.11n40-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5643.125	53.42	-4.68	48.74	68.20	-19.46	peak
2	5690.750	54.63	-4.66	49.97	98.36	-48.39	peak
3	5725.000	52.65	-4.57	48.08	122.20	-74.12	peak
4	5850.000	53.18	-4.10	49.08	122.20	-73.12	peak
5	5882.750	54.09	-3.96	50.13	99.47	-49.34	peak
6	5956.625	53.29	-3.98	49.31	68.20	-18.89	peak



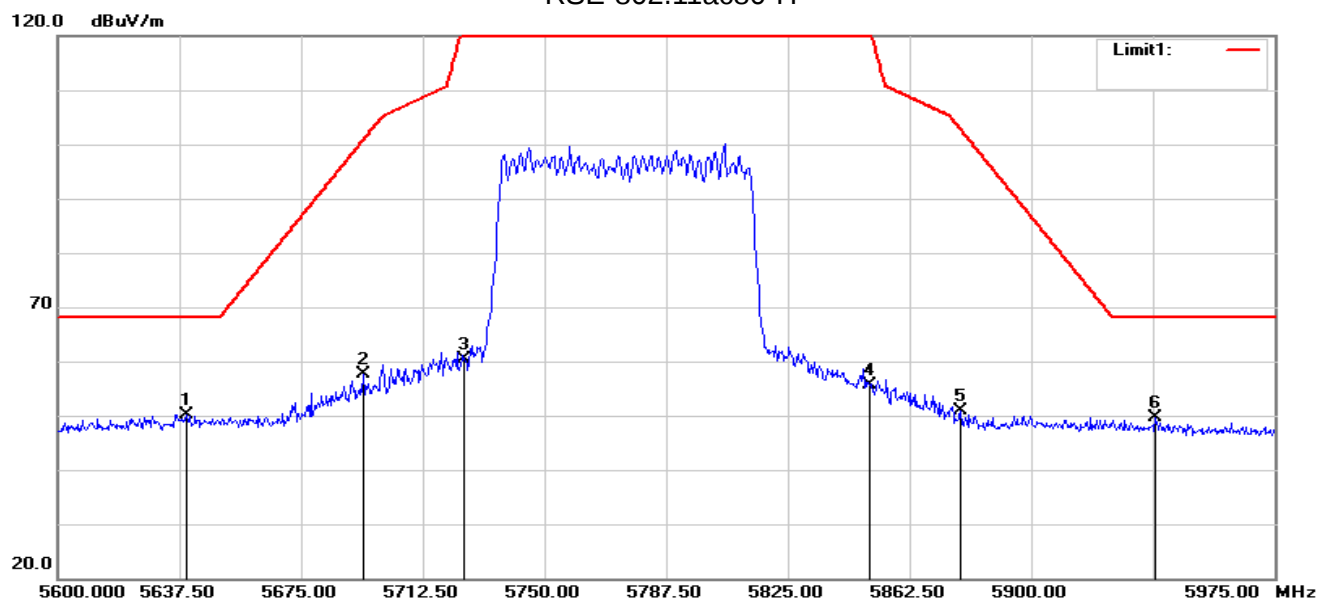
RSE-802.11n40-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5638.250	55.08	-4.69	50.39	68.20	-17.81	peak
2	5684.000	58.34	-4.67	53.67	93.36	-39.69	peak
3	5725.000	64.94	-4.57	60.37	122.20	-61.83	peak
4	5850.000	70.88	-4.10	66.78	122.20	-55.42	peak
5	5883.875	60.99	-3.96	57.03	98.63	-41.60	peak
6	5928.500	56.85	-3.92	52.93	68.20	-15.27	peak

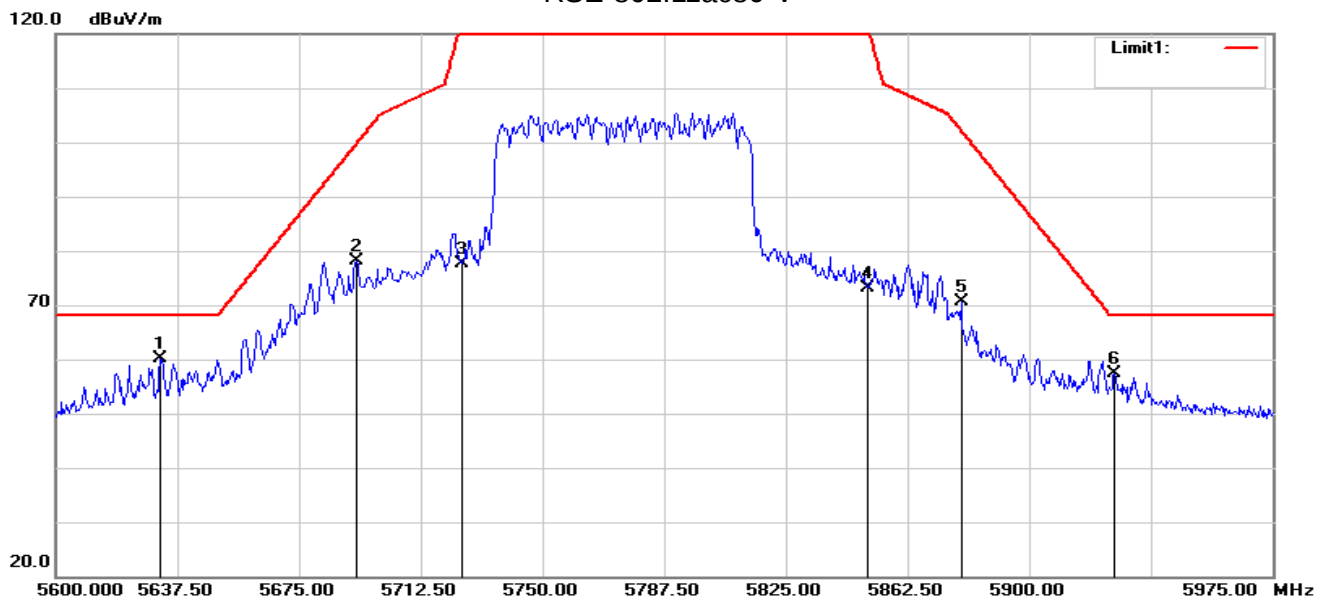


RSE-802.11ac80-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5639.750	54.90	-4.69	50.21	68.20	-17.99	peak
2	5694.125	62.25	-4.66	57.59	100.85	-43.26	peak
3	5725.000	65.05	-4.57	60.48	122.20	-61.72	peak
4	5850.000	59.67	-4.10	55.57	122.20	-66.63	peak
5	5878.250	54.86	-3.97	50.89	102.80	-51.91	peak
6	5938.250	53.66	-3.95	49.71	68.20	-18.49	peak

RSE-802.11ac80-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5632.250	64.93	-4.69	60.24	68.20	-7.96	peak
2	5692.625	82.82	-4.66	78.16	99.74	-21.58	peak
3	5725.000	82.24	-4.57	77.67	122.20	-44.53	peak
4	5850.000	77.35	-4.10	73.25	122.20	-48.95	peak
5	5879.000	74.55	-3.97	70.58	102.24	-31.66	peak
6	5926.250	61.19	-3.93	57.26	68.20	-10.94	peak

Note: All modes have been tested. Only the worst mode shown in the report.



4. POWER SPECTRAL DENSITY TEST

4.1 LIMIT

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

4.2 TEST PROCEDURE

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

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

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

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

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

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

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP

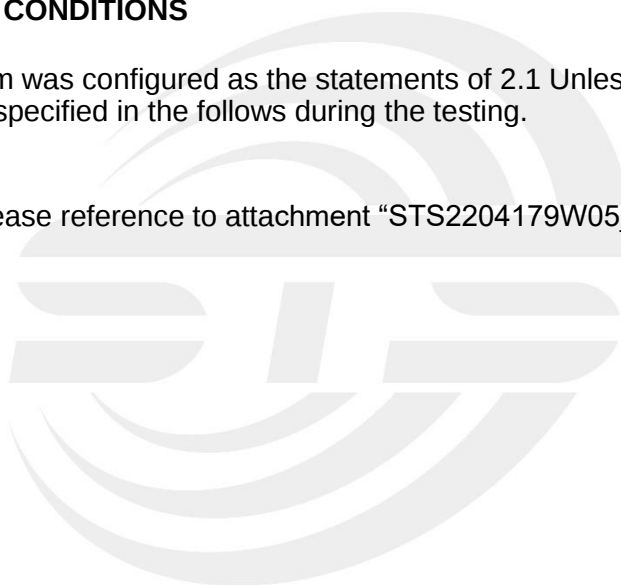


4.5 EUT OPERATION CONDITIONS

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

4.6 TEST RESULTS

Note: The test data please reference to attachment "STS2204179W05_Appendix 5G WIFI".



5. BANDWIDTH MEASUREMENT

5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth.

5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

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

5.1.5 TEST RESULTS

- Note: 1. ANT A Power > ANT B Power, Both ANT A and B have been test, Only show the worst data of ANT A.
2. The test data please reference to attachment "STS2204179W05_Appendix 5G WIFI".

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

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

5.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

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

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

5.2.2 DEVIATION FROM STANDARD

No deviation.

5.2.3 TEST SETUP



5.2.4 EUT OPERATION CONDITIONS

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

5.2.5 TEST RESULTS

Note: 1. ANT A Power > ANT B Power, Both ANT A and B have been test, Only show the worst data of ANT A.

2. The test data please reference to attachment "STS2204179W05_Appendix 5G WIFI".

5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

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

5.3.1 TEST PROCEDURE

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

5.3.2 DEVIATION FROM STANDARD

No deviation.

5.3.3 TEST SETUP



5.3.4 EUT OPERATION CONDITIONS

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

5.3.5 TEST RESULTS

- Note: 1. ANT A Power > ANT B Power, Both ANT A and B have been test, Only show the worst data of ANT A.
2. The test data please reference to attachment "STS2204179W05_Appendix 5G WIFI".



6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 LIMIT

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

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

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

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a) (1) (iv)	Peak Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth)	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5825	

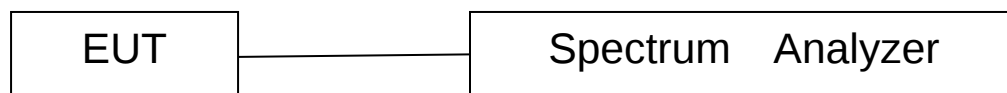
6.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

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

6.6 TEST RESULTS

Note: The test data please reference to attachment "STS2204179W05_Appendix 5G WIFI".



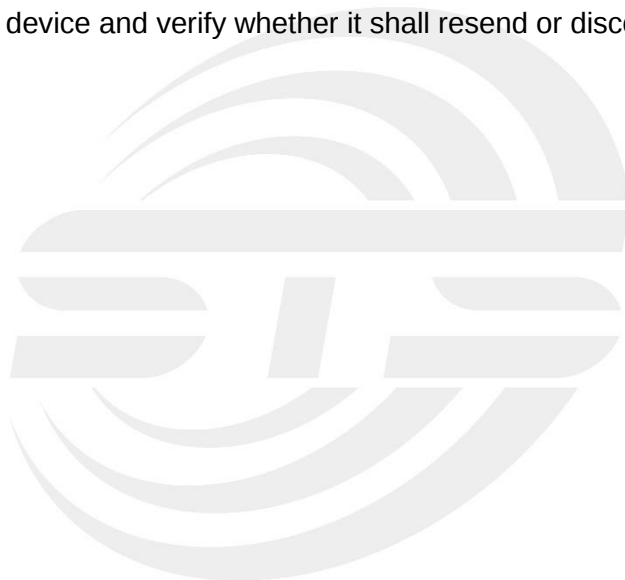
7. AUTOMATICALLY DISCONTINUE TRANSMISSION

7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

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

7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

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





8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

The EUT antenna is PCB 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※※※※※

