



Radio Test Report

Report No.: STS2512364W06

Issued for

MICRO COMPUTER (HK) TECH LIMITED

RM 18, 28/F, Shui On Centre, 6-8 Harbour Road, Waterfront,
Wan Chai, HK

Product Name: MINI PC

Brand Name: N/A

Model Name: X1 Lite-350

Series Model(s): X1-*** (Where * = "0-9", "A-Z", "a-z" · "-",
and spaces)

FCC ID: 2A49R-X1LITE

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: MICRO COMPUTER (HK) TECH LIMITED
Address: RM 18, 28/F, Shui On Centre, 6-8 Harbour Road, Waterfront, Wan Chai, HK
Manufacturer's Name: MICRO COMPUTER (HK) TECH LIMITED
Address: RM 18, 28/F, Shui On Centre, 6-8 Harbour Road, Waterfront, Wan Chai, HK

Product Description

Product Name: MINI PC
Brand Name: N/A
Model Name: X1 Lite-350
Series Model(s): X1-*** (Where * = "0-9", "A-Z", "a-z", "-", and spaces)

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: 27 Sep. 2025
Date (s) of performance of tests: 27 Sep. 2025 to 15 Dec. 2025
Date of Issue: 15 Dec. 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	15 Dec. 2025	STS2512364W06	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
15.203/15.204	Antenna Requirement	PASS

NOTE:

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



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	MINI PC	
Brand Name	N/A	
Model Name	X1 Lite-350	
Series Model(s)	X1-*** (Where * = "0-9", "A-Z", "a-z", "-", and spaces)	
Model Difference	All the model are the same circuit and RF module, except mode names.	
Product Description	The EUT is a MINI PC	
	Radio Technology	IEEE 802.11ax(HE20) IEEE 802.11ax(HE40) IEEE 802.11ax(HE80) IEEE 802.11ax(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:	802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM
	Antenna Type:	Internal antenna
	Antenna Gain (dBi):	3.01 dBi
	Max.Output Power(Conducted):	11.88 dBm
	More details of EUT technical specification, please refer to the User Manual.	
Test Channel	Please refer to the Note 3.	
Power Rating	DC 19V from adapter	
Adapter	MODEL: HKA12019063-0D6 INPUT: 100-240V~50/60Hz, 1.6A OUTPUT: DC 190V 6.32A, 120.08W	
Battery	N/A	
Hardware version number	V1.0	
Software version number	Win11 24H2	
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

802.11ax (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

802.11ax (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	185	6875	233	7115

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	195	6925
43	6165	107	6485	147	6685	211	7005
91	6405	-	-	187	6885	227	7085

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
39	6145	-	-	151	6705	215	7025
87	6385	-	-	183	6865	-	-

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	-	-	-	-	-	-



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible 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 802.11ax HE20 CH1&CH45&CH93	NSS1 MCS0
Mode 2	TX IEEE 802.11ax HE20 CH97&CH105&CH113	NSS1 MCS0
Mode 3	TX IEEE 802.11ax HE20 H117&CH121&CH185	NSS1 MCS0
Mode 4	TX IEEE 802.11ax HE20 CH189&CH209&CH233	NSS1 MCS0
Mode 5	TX IEEE 802.11ax HE40 CH3&CH43&CH91	NSS1 MCS0
Mode 6	TX IEEE 802.11ax HE40 CH99&CH107	NSS1 MCS0
Mode 7	TX IEEE 802.11ax HE40 CH115&CH147&CH187	NSS1 MCS0
Mode 8	TX IEEE 802.11ax HE40 CH195&CH211&CH227	NSS1 MCS0
Mode 9	TX IEEE 802.11ax HE80 CH7&CH39&CH87	NSS1 MCS0
Mode 10	TX IEEE 802.11ax HE80 CH103	NSS1 MCS0
Mode 11	TX IEEE 802.11ax HE80 CH119&CH151&CH183	NSS1 MCS0
Mode 12	TX IEEE 802.11ax HE80 CH199&CH215	NSS1 MCS0
Mode 13	TX IEEE 802.11ax HE160 CH15&CH47&CH79	NSS1 MCS0
Mode 14	TX IEEE 802.11ax HE160 CH111	NSS1 MCS0
Mode 15	TX IEEE 802.11ax HE160 CH143&CH175	NSS1 MCS0
Mode 16	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 be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 17: Keeping TX + WLAN Link

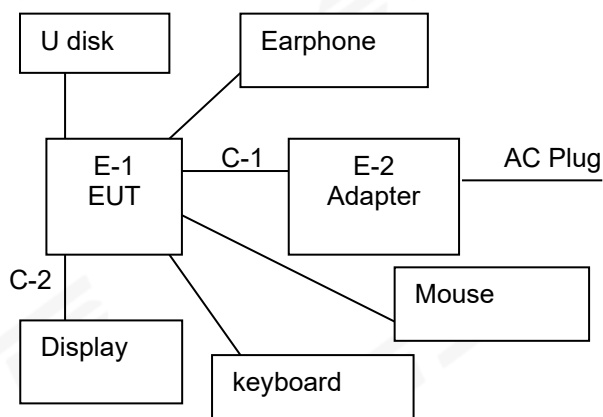
2.3 TEST SOFTWARE AND POWER LEVEL

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

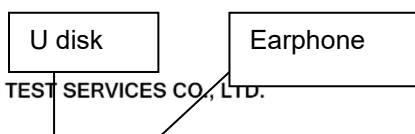
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power
WIFI 6E	U-NII-5 (5925MHz-6425MHz)	802.11ax(HE20)	3.01	5
		802.11ax(HE40)		8
		802.11ax(HE80)		8
		802.11ax(HE160)		8
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power
WIFI 6E	U-NII-6 (6425MHz-6525MHz)	802.11ax(HE20)	3.01	5
		802.11ax(HE40)		8
		802.11ax(HE80)		8
		802.11ax(HE160)		8
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power
WIFI 6E	U-NII-7 (6525MHz-6875MHz)	802.11ax(HE20)	3.01	4
		802.11ax(HE40)		8
		802.11ax(HE80)		8
		802.11ax(HE160)		8
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power
WIFI 6E	U-NII-8 (6875MHz-7125MHz)	802.11ax(HE20)	3.01	4
		802.11ax(HE40)		7
		802.11ax(HE80)		8
		802.11ax(HE160)		8

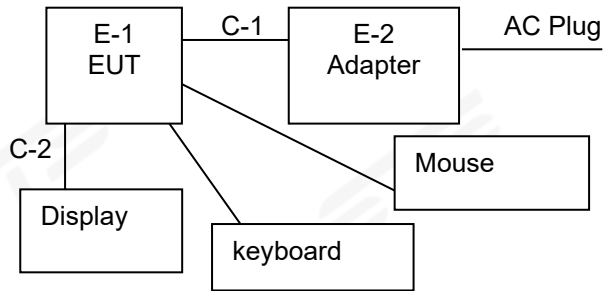
2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

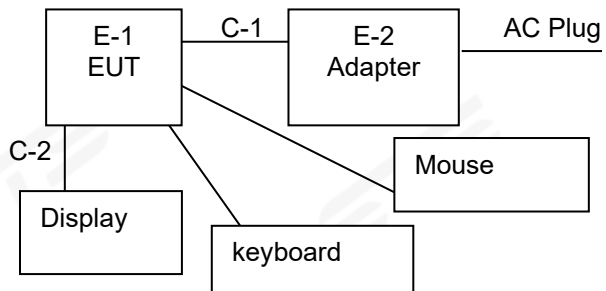


Conducted Emission Test





RF Conducted Test





2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	MINI PC	N/A	X1 Lite-350	EUT
E-2	ADAPTER	Hoco.	HKA12019063-0D6	Auxiliary
E-3	Display	AOC	U27V5C	Auxiliary
E-4	Router	ASUS	GT-AX11000	Auxiliary
E-5	Keyboard	Logitech	M-U0026	Auxiliary
E-6	Mouse	Logitech	YU0036	Auxiliary
E-7	U disk	SanDisk	32G	Auxiliary
E-8	Earphone	IHIP	SBGE1	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Unshielded	NO	1M	N/A
C-2	HDMI cable	NO	1M	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(0.1 M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
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	HONGSHENGFENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
Conduction Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limiter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2025.02.22	2026.02.21
Power detector group	Keysight	NW2021031	N/A	2025.09.23	2026.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2025.02.22	2026.02.21
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	MW	MTS 8310 2.0.0.0			



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

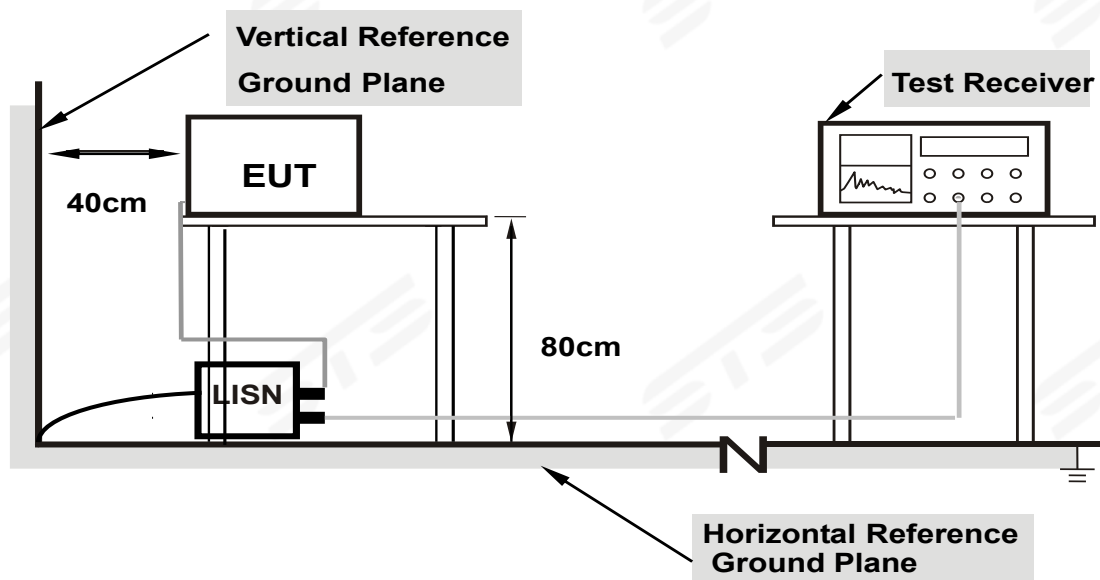
3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

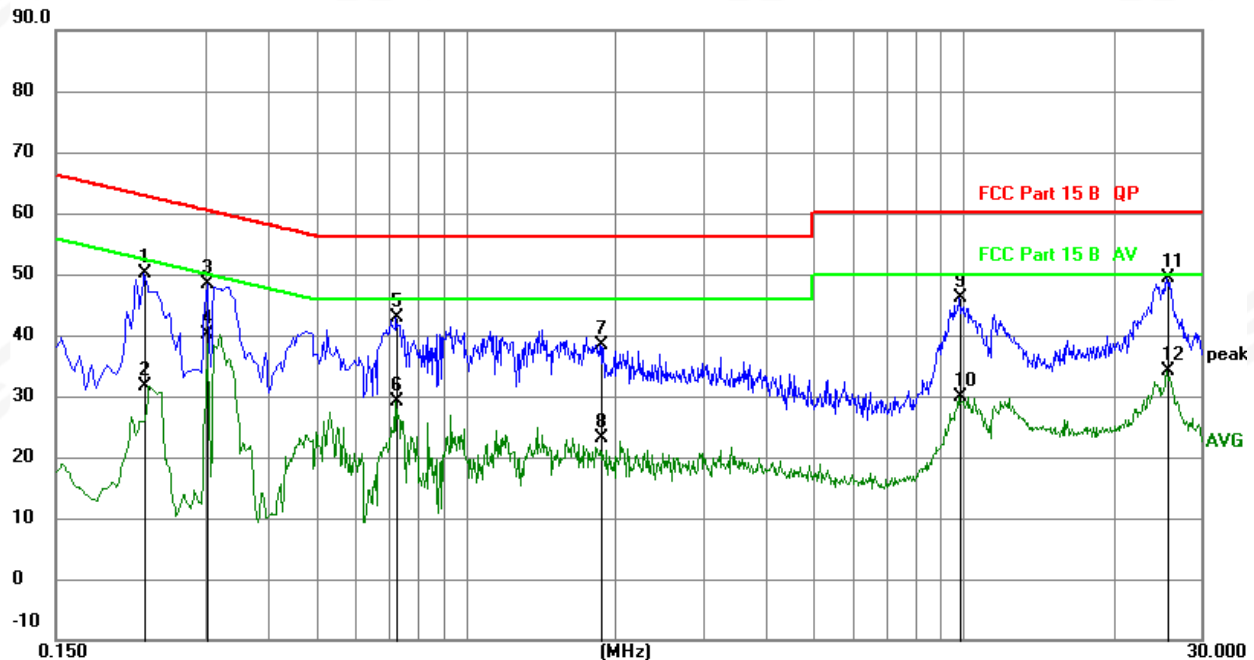
3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.1.6 TEST RESULTS

Temperature:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 17		



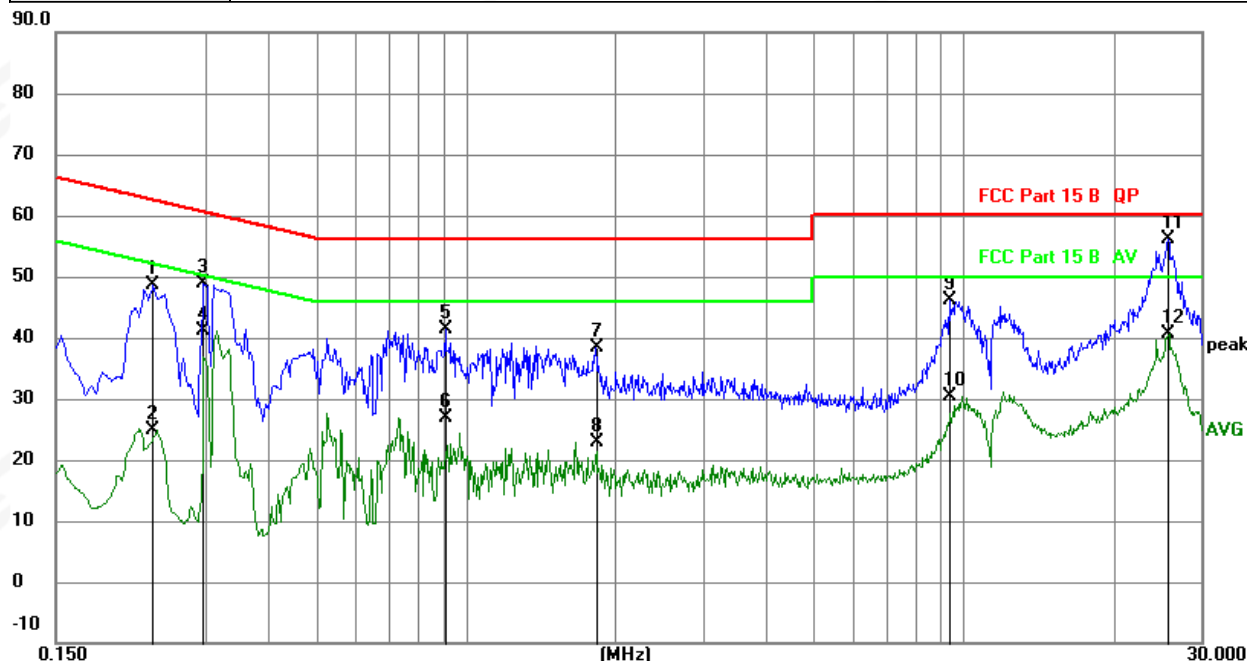
No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2265	29.99	20.04	50.03	62.58	-12.55	QP
2		0.2265	11.61	20.04	31.65	52.58	-20.93	AVG
3		0.3030	28.24	20.05	48.29	60.16	-11.87	QP
4	*	0.3030	19.99	20.05	40.04	50.16	-10.12	AVG
5		0.7260	22.59	20.26	42.85	56.00	-13.15	QP
6		0.7260	8.87	20.26	29.13	46.00	-16.87	AVG
7		1.8645	18.26	20.19	38.45	56.00	-17.55	QP
8		1.8645	2.89	20.19	23.08	46.00	-22.92	AVG
9		9.8520	24.69	21.33	46.02	60.00	-13.98	QP
10		9.8520	8.65	21.33	29.98	50.00	-20.02	AVG
11		25.6965	24.99	24.28	49.27	60.00	-10.73	QP
12		25.6965	9.84	24.28	34.12	50.00	-15.88	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:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode :	Mode 17		



No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2353	28.68	20.04	48.72	62.26	-13.54	QP
2		0.2353	4.96	20.04	25.00	52.26	-27.26	AVG
3		0.2971	28.73	20.05	48.78	60.32	-11.54	QP
4		0.2971	21.07	20.05	41.12	50.32	-9.20	AVG
5		0.9087	21.03	20.27	41.30	56.00	-14.70	QP
6		0.9087	6.52	20.27	26.79	46.00	-19.21	AVG
7		1.8192	18.22	20.20	38.42	56.00	-17.58	QP
8		1.8192	2.57	20.20	22.77	46.00	-23.23	AVG
9		9.3518	24.95	21.26	46.21	60.00	-13.79	QP
10		9.3518	9.01	21.26	30.27	50.00	-19.73	AVG
11	*	25.7271	31.79	24.28	56.07	60.00	-3.93	QP
12		25.7271	16.35	24.28	40.63	50.00	-9.37	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) MEASUREMEN

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 (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)	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- 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:

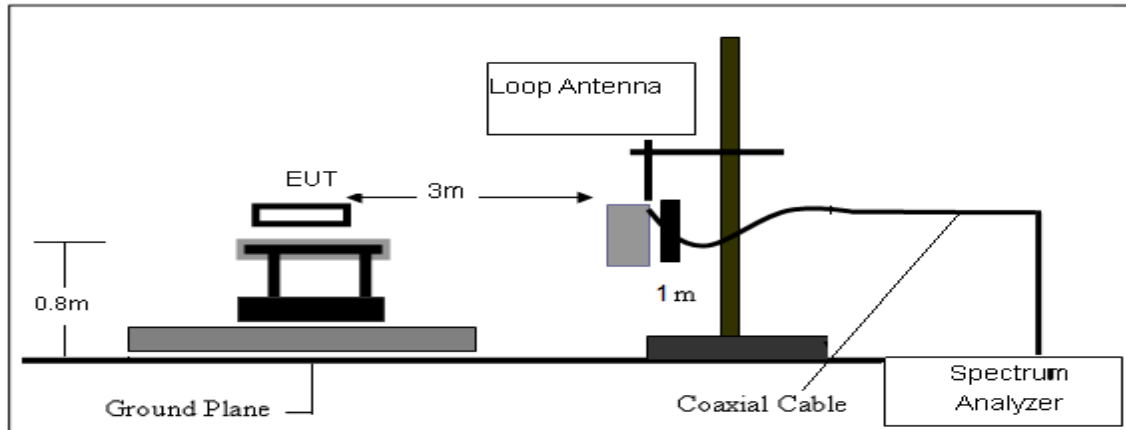
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

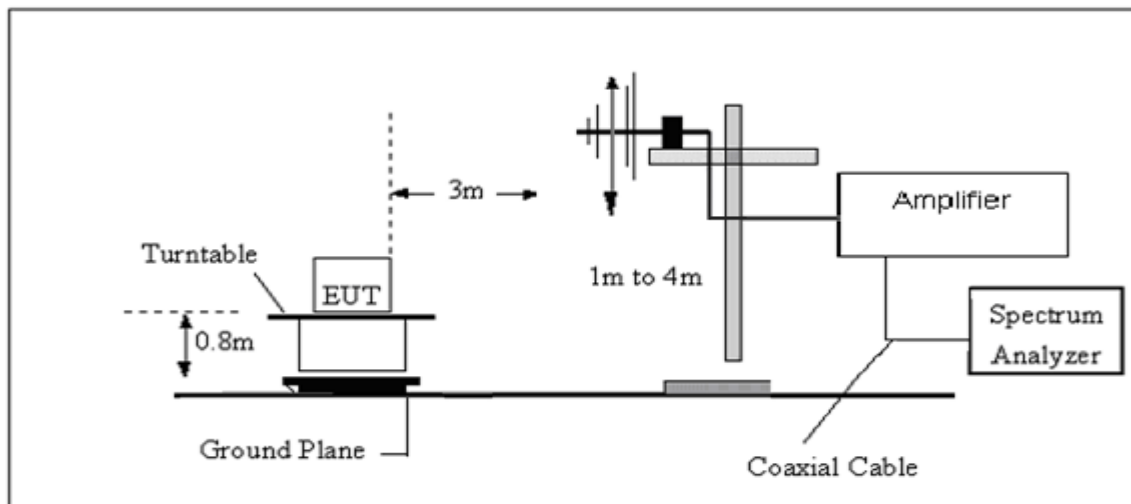
No deviation

3.2.3 TEST SETUP

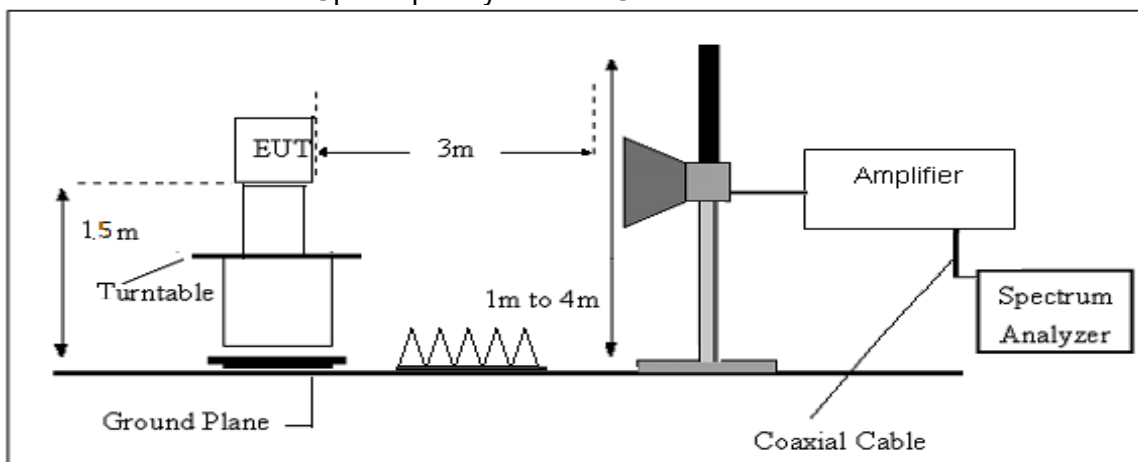
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:	24.7 °C	Relative Humidity:	57 %
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.

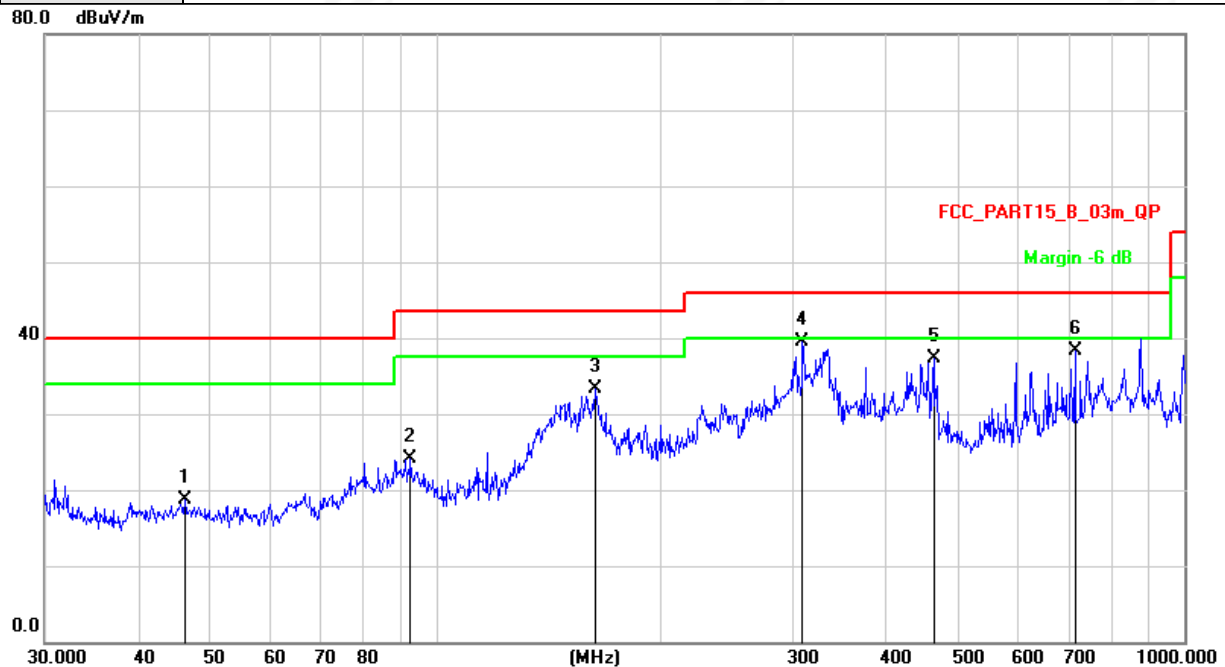
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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



3.2.7 TEST RESULTS (Between 30MHz – 1GHz)

Temperature:	24.7 °C	Relative Humidity:	57 %
Test Voltage:	AC 120V/60Hz	Polarization :	Horizontal
Test Mode:	Mode 1-16(Mode 9 worst mode)		



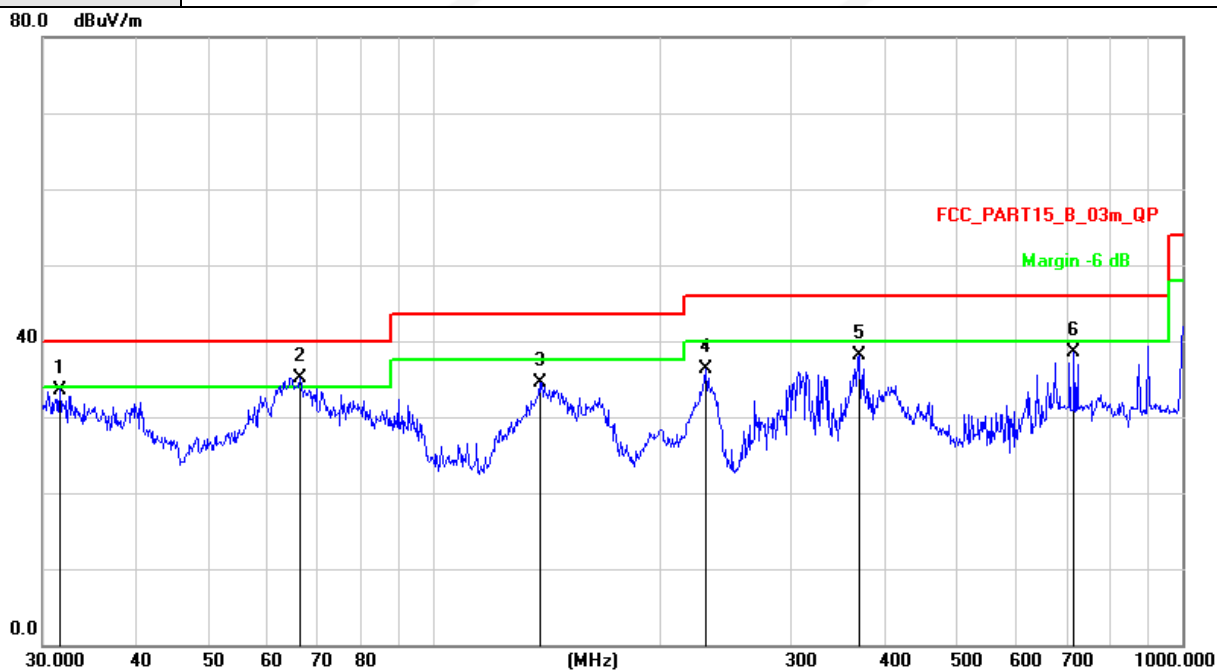
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			
			dBuV	dB	dBuV/m	dB/m	dB	Detector
1		46.1779	25.75	-7.10	18.65	40.00	-21.35	QP
2		92.4624	33.06	-8.91	24.15	43.50	-19.35	QP
3		163.1818	43.80	-10.52	33.28	43.50	-10.22	QP
4	*	308.9126	44.94	-5.52	39.42	46.00	-6.58	QP
5		462.3455	39.16	-1.91	37.25	46.00	-8.75	QP
6		714.1734	36.73	1.66	38.39	46.00	-7.61	QP

Remark:

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



Temperature:	24.7 °C	Relative Humidity:	57 %
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	Mode 1-16(Mode 9 worst mode)		



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	dBuV	Factor	ment	dB/m	dB	Detector
1		31.6202	42.38	-8.78	33.60	40.00	-6.40	QP
2	*	66.2662	44.70	-9.59	35.11	40.00	-4.89	QP
3		138.3873	45.27	-10.70	34.57	43.50	-8.93	QP
4		230.9068	43.65	-7.42	36.23	46.00	-9.77	QP
5		369.4047	42.12	-3.95	38.17	46.00	-7.83	QP
6		716.6820	36.73	1.72	38.45	46.00	-7.55	QP

Remark:

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

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



3.2.8 TEST RESULTS (Above 1000 MHz)

U-NII 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 (802.11/ 5955 MHz)										
3261.40	44.52	44.70	6.70	28.20	-9.80	34.72	74.00	-39.28	Pk	Vertical
3261.40	41.09	44.70	6.70	28.20	-9.80	31.29	54.00	-22.71	AV	Vertical
3257.24	43.87	44.70	6.70	28.20	-9.80	34.07	68.20	-34.13	Pk	Horizontal
3257.24	40.96	44.70	6.70	28.20	-9.80	31.16	54.00	-22.84	AV	Horizontal
3994.07	39.18	44.20	7.90	29.70	-6.60	32.58	74.00	-41.42	Pk	Vertical
3994.07	36.11	44.20	7.90	29.70	-6.60	29.51	54.00	-24.49	AV	Vertical
3989.34	39.62	44.20	7.90	29.70	-6.60	33.02	74.00	-40.98	Pk	Horizontal
3989.34	36.16	44.20	7.90	29.70	-6.60	29.56	54.00	-24.44	AV	Horizontal
7224.97	37.15	43.50	11.40	35.50	3.40	40.55	68.20	-27.65	Pk	Vertical
7224.97	34.36	43.50	11.40	35.50	3.40	37.76	54.00	-16.24	AV	Vertical
7231.11	37.24	43.50	11.40	35.50	3.40	40.64	68.20	-27.56	Pk	Horizontal
7231.11	34.24	43.50	11.40	35.50	3.40	37.64	54.00	-16.36	AV	Horizontal
11909.64	39.35	44.50	13.80	38.80	8.10	47.45	74.00	-26.55	Pk	Vertical
11909.64	35.92	44.50	13.80	38.80	8.10	44.02	54.00	-9.98	AV	Vertical
11909.87	38.71	44.50	13.80	38.80	8.10	46.81	74.00	-27.19	Pk	Horizontal
11909.87	36.74	44.50	13.80	38.80	8.10	44.84	54.00	-9.16	AV	Horizontal
14874.00	33.06	43.60	14.30	39.50	10.20	43.26	68.20	-24.94	Pk	Vertical
14874.00	30.41	43.60	14.30	39.50	10.20	40.61	54.00	-13.39	AV	Vertical
14868.23	33.69	43.60	14.30	39.50	10.20	43.89	68.20	-24.31	Pk	Horizontal
14868.23	30.80	43.60	14.30	39.50	10.20	41.00	54.00	-13.00	AV	Horizontal
17859.34	32.29	42.60	15.90	38.90	12.20	44.49	68.20	-23.71	Pk	Vertical
17859.34	28.98	42.60	15.90	38.90	12.20	41.18	54.00	-12.82	AV	Vertical
17845.90	32.13	42.60	15.90	38.90	12.20	44.33	68.20	-23.87	Pk	Horizontal
17845.90	29.37	42.60	15.90	38.90	12.20	41.57	54.00	-12.43	AV	Horizontal
Mid Channel (802.11/6175 MHz)										
3255.07	43.86	44.70	6.70	28.20	-9.80	34.06	68.20	-34.14	Pk	Vertical
3255.07	41.34	44.70	6.70	28.20	-9.80	31.54	54.00	-22.46	AV	Vertical
3257.29	44.78	44.70	6.70	28.20	-9.80	34.98	68.20	-33.22	Pk	Horizontal
3257.29	41.69	44.70	6.70	28.20	-9.80	31.89	54.00	-22.11	AV	Horizontal
3999.36	38.85	44.20	7.90	29.70	-6.60	32.25	74.00	-41.75	Pk	Vertical
3999.36	36.17	44.20	7.90	29.70	-6.60	29.57	54.00	-24.43	AV	Vertical
3999.25	39.91	44.20	7.90	29.70	-6.60	33.31	74.00	-40.69	Pk	Horizontal
3999.25	35.82	44.20	7.90	29.70	-6.60	29.22	54.00	-24.78	AV	Horizontal
7223.53	36.89	43.50	11.40	35.50	3.40	40.29	68.20	-27.91	Pk	Vertical
7223.53	33.97	43.50	11.40	35.50	3.40	37.37	54.00	-16.63	AV	Vertical
7227.52	37.30	43.50	11.40	35.50	3.40	40.70	68.20	-27.50	Pk	Horizontal
7227.52	33.53	43.50	11.40	35.50	3.40	36.93	54.00	-17.07	AV	Horizontal
12349.54	39.01	44.50	13.80	38.80	8.10	47.11	74.00	-26.89	Pk	Vertical
12349.54	36.53	44.50	13.80	38.80	8.10	44.63	54.00	-9.37	AV	Vertical
12349.97	40.15	44.50	13.80	38.80	8.10	48.25	74.00	-25.75	Pk	Horizontal
12349.97	36.22	44.50	13.80	38.80	8.10	44.32	54.00	-9.68	AV	Horizontal
15433.04	33.53	43.60	14.30	39.50	10.20	43.73	68.20	-24.47	Pk	Vertical
15433.04	30.58	43.60	14.30	39.50	10.20	40.78	54.00	-13.22	AV	Vertical
15422.46	33.91	43.60	14.30	39.50	10.20	44.11	68.20	-24.09	Pk	Horizontal
15422.46	29.70	43.60	14.30	39.50	10.20	39.90	54.00	-14.10	AV	Horizontal
18523.04	31.90	42.60	15.90	38.90	12.20	44.10	68.20	-24.10	Pk	Vertical
18523.04	29.74	42.60	15.90	38.90	12.20	41.94	54.00	-12.06	AV	Vertical
18508.78	32.90	42.60	15.90	38.90	12.20	45.10	68.20	-23.10	Pk	Horizontal
18508.78	29.66	42.60	15.90	38.90	12.20	41.86	54.00	-12.14	AV	Horizontal
High Channel (802.11/ 6415 MHz)										
3260.85	44.74	44.70	6.70	28.20	-9.80	34.94	74.00	-39.06	Pk	Vertical
3260.85	41.87	44.70	6.70	28.20	-9.80	32.07	54.00	-21.93	AV	Vertical
3259.46	45.15	44.70	6.70	28.20	-9.80	35.35	68.20	-32.85	Pk	Horizontal



3259.46	40.99	44.70	6.70	28.20	-9.80	31.19	54.00	-22.81	AV	Horizontal
3986.56	39.76	44.20	7.90	29.70	-6.60	33.16	74.00	-40.84	Pk	Vertical
3986.56	36.55	44.20	7.90	29.70	-6.60	29.95	54.00	-24.05	AV	Vertical
3990.73	38.80	44.20	7.90	29.70	-6.60	32.20	74.00	-41.80	Pk	Horizontal
3990.73	35.77	44.20	7.90	29.70	-6.60	29.17	54.00	-24.83	AV	Horizontal
7224.80	36.91	43.50	11.40	35.50	3.40	40.31	68.20	-27.89	Pk	Vertical
7224.80	33.85	43.50	11.40	35.50	3.40	37.25	54.00	-16.75	AV	Vertical
7229.28	37.65	43.50	11.40	35.50	3.40	41.05	68.20	-27.15	Pk	Horizontal
7229.28	34.80	43.50	11.40	35.50	3.40	38.20	54.00	-15.80	AV	Horizontal
12829.89	39.86	44.50	13.80	38.80	8.10	47.96	68.20	-20.24	Pk	Vertical
12829.89	35.73	44.50	13.80	38.80	8.10	43.83	54.00	-10.17	AV	Vertical
12829.59	39.47	44.50	13.80	38.80	8.10	47.57	68.20	-20.63	Pk	Horizontal
12829.59	35.73	44.50	13.80	38.80	8.10	43.83	54.00	-10.17	AV	Horizontal
16028.86	34.09	43.60	14.30	39.50	10.20	44.29	68.20	-23.91	Pk	Vertical
16028.86	30.04	43.60	14.30	39.50	10.20	40.24	54.00	-13.76	AV	Vertical
16037.40	33.73	43.60	14.30	39.50	10.20	43.93	68.20	-24.27	Pk	Horizontal
16037.40	30.41	43.60	14.30	39.50	10.20	40.61	54.00	-13.39	AV	Horizontal
19234.08	32.04	42.60	15.90	38.90	12.20	44.24	68.20	-23.96	Pk	Vertical
19234.08	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
19238.11	32.75	42.60	15.90	38.90	12.20	44.95	68.20	-23.25	Pk	Horizontal
19238.11	28.56	42.60	15.90	38.90	12.20	40.76	54.00	-13.24	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.



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 (802.11/ 6435 MHz)										
3262.22	43.80	44.70	6.70	28.20	-9.80	34.00	74.00	-40.00	Pk	Vertical
3262.22	41.96	44.70	6.70	28.20	-9.80	32.16	54.00	-21.84	AV	Vertical
3261.42	44.95	44.70	6.70	28.20	-9.80	35.15	74.00	-38.85	Pk	Horizontal
3261.42	40.83	44.70	6.70	28.20	-9.80	31.03	54.00	-22.97	AV	Horizontal
3981.23	39.47	44.20	7.90	29.70	-6.60	32.87	74.00	-41.13	Pk	Vertical
3981.23	36.42	44.20	7.90	29.70	-6.60	29.82	54.00	-24.18	AV	Vertical
3996.86	38.79	44.20	7.90	29.70	-6.60	32.19	74.00	-41.81	Pk	Horizontal
3996.86	36.49	44.20	7.90	29.70	-6.60	29.89	54.00	-24.11	AV	Horizontal
7220.60	36.88	43.50	11.40	35.50	3.40	40.28	68.20	-27.92	Pk	Vertical
7220.60	34.56	43.50	11.40	35.50	3.40	37.96	54.00	-16.04	AV	Vertical
7219.62	37.87	43.50	11.40	35.50	3.40	41.27	68.20	-26.93	Pk	Horizontal
7219.62	34.05	43.50	11.40	35.50	3.40	37.45	54.00	-16.55	AV	Horizontal
12869.77	39.06	44.50	13.80	38.80	8.10	47.16	68.20	-21.04	Pk	Vertical
12869.77	36.29	44.50	13.80	38.80	8.10	44.39	54.00	-9.61	AV	Vertical
12869.71	38.95	44.50	13.80	38.80	8.10	47.05	68.20	-21.15	Pk	Horizontal
12869.71	36.04	44.50	13.80	38.80	8.10	44.14	54.00	-9.86	AV	Horizontal
16079.61	33.27	43.60	14.30	39.50	10.20	43.47	68.20	-24.73	Pk	Vertical
16079.61	30.54	43.60	14.30	39.50	10.20	40.74	54.00	-13.26	AV	Vertical
16081.90	33.19	43.60	14.30	39.50	10.20	43.39	68.20	-24.81	Pk	Horizontal
16081.90	31.07	43.60	14.30	39.50	10.20	41.27	54.00	-12.73	AV	Horizontal
19297.59	32.52	42.60	15.90	38.90	12.20	44.72	68.20	-23.48	Pk	Vertical
19297.59	29.48	42.60	15.90	38.90	12.20	41.68	54.00	-12.32	AV	Vertical
19289.04	32.49	42.60	15.90	38.90	12.20	44.69	68.20	-23.51	Pk	Horizontal
19289.04	28.91	42.60	15.90	38.90	12.20	41.11	54.00	-12.89	AV	Horizontal
Mid Channel (802.11/ 6475MHz)										
3256.69	43.80	44.70	6.70	28.20	-9.80	34.00	68.20	-34.20	Pk	Vertical
3256.69	40.88	44.70	6.70	28.20	-9.80	31.08	54.00	-22.92	AV	Vertical
3249.62	44.87	44.70	6.70	28.20	-9.80	35.07	68.20	-33.13	Pk	Horizontal
3249.62	42.09	44.70	6.70	28.20	-9.80	32.29	54.00	-21.71	AV	Horizontal
3987.07	39.81	44.20	7.90	29.70	-6.60	33.21	74.00	-40.79	Pk	Vertical
3987.07	36.47	44.20	7.90	29.70	-6.60	29.87	54.00	-24.13	AV	Vertical
3983.35	39.49	44.20	7.90	29.70	-6.60	32.89	74.00	-41.11	Pk	Horizontal
3983.35	37.10	44.20	7.90	29.70	-6.60	30.50	54.00	-23.50	AV	Horizontal
7230.98	36.64	43.50	11.40	35.50	3.40	40.04	68.20	-28.16	Pk	Vertical
7230.98	34.62	43.50	11.40	35.50	3.40	38.02	54.00	-15.98	AV	Vertical
7220.96	37.69	43.50	11.40	35.50	3.40	41.09	68.20	-27.11	Pk	Horizontal
7220.96	34.03	43.50	11.40	35.50	3.40	37.43	54.00	-16.57	AV	Horizontal
12949.83	38.89	44.50	13.80	38.80	8.10	46.99	68.20	-21.21	Pk	Vertical
12949.83	36.52	44.50	13.80	38.80	8.10	44.62	54.00	-9.38	AV	Vertical
12949.71	40.09	44.50	13.80	38.80	8.10	48.19	68.20	-20.01	Pk	Horizontal
12949.71	37.16	44.50	13.80	38.80	8.10	45.26	54.00	-8.74	AV	Horizontal
16170.39	33.14	43.60	14.30	39.50	10.20	43.34	68.20	-24.86	Pk	Vertical
16170.39	30.26	43.60	14.30	39.50	10.20	40.46	54.00	-13.54	AV	Vertical
16168.06	33.73	43.60	14.30	39.50	10.20	43.93	68.20	-24.27	Pk	Horizontal
16168.06	31.05	43.60	14.30	39.50	10.20	41.25	54.00	-12.75	AV	Horizontal
19420.14	31.79	42.60	15.90	38.90	12.20	43.99	68.20	-24.21	Pk	Vertical
19420.14	29.25	42.60	15.90	38.90	12.20	41.45	54.00	-12.55	AV	Vertical
19422.55	32.16	42.60	15.90	38.90	12.20	44.36	68.20	-23.84	Pk	Horizontal
19422.55	30.01	42.60	15.90	38.90	12.20	42.21	54.00	-11.79	AV	Horizontal
High Channel (802.11/ 6515 MHz)										
3247.42	44.72	44.70	6.70	28.20	-9.80	34.92	68.20	-33.28	Pk	Vertical
3247.42	41.00	44.70	6.70	28.20	-9.80	31.20	54.00	-22.80	AV	Vertical
3262.92	44.44	44.70	6.70	28.20	-9.80	34.64	74.00	-39.36	Pk	Horizontal
3262.92	40.90	44.70	6.70	28.20	-9.80	31.10	54.00	-22.90	AV	Horizontal



3991.09	38.65	44.20	7.90	29.70	-6.60	32.05	74.00	-41.95	Pk	Vertical
3991.09	35.83	44.20	7.90	29.70	-6.60	29.23	54.00	-24.77	AV	Vertical
3988.02	39.92	44.20	7.90	29.70	-6.60	33.32	74.00	-40.68	Pk	Horizontal
3988.02	35.65	44.20	7.90	29.70	-6.60	29.05	54.00	-24.95	AV	Horizontal
7233.91	36.86	43.50	11.40	35.50	3.40	40.26	68.20	-27.94	Pk	Vertical
7233.91	33.94	43.50	11.40	35.50	3.40	37.34	54.00	-16.66	AV	Vertical
7220.74	36.54	43.50	11.40	35.50	3.40	39.94	68.20	-28.26	Pk	Horizontal
7220.74	34.54	43.50	11.40	35.50	3.40	37.94	54.00	-16.06	AV	Horizontal
13029.57	39.98	44.50	13.80	38.80	8.10	48.08	68.20	-20.12	Pk	Vertical
13029.57	36.14	44.50	13.80	38.80	8.10	44.24	54.00	-9.76	AV	Vertical
13029.88	38.81	44.50	13.80	38.80	8.10	46.91	68.20	-21.29	Pk	Horizontal
13029.88	36.24	44.50	13.80	38.80	8.10	44.34	54.00	-9.66	AV	Horizontal
16277.35	33.25	43.60	14.30	39.50	10.20	43.45	68.20	-24.75	Pk	Vertical
16277.35	30.12	43.60	14.30	39.50	10.20	40.32	54.00	-13.68	AV	Vertical
16276.86	32.79	43.60	14.30	39.50	10.20	42.99	68.20	-25.21	Pk	Horizontal
16276.86	29.93	43.60	14.30	39.50	10.20	40.13	54.00	-13.87	AV	Horizontal
19544.84	32.57	42.60	15.90	38.90	12.20	44.77	68.20	-23.43	Pk	Vertical
19544.84	29.21	42.60	15.90	38.90	12.20	41.41	54.00	-12.59	AV	Vertical
19527.41	32.68	42.60	15.90	38.90	12.20	44.88	68.20	-23.32	Pk	Horizontal
19527.41	29.61	42.60	15.90	38.90	12.20	41.81	54.00	-12.19	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.



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 (802.11/ 6535 MHz)										
3251.62	45.23	44.70	6.70	28.20	-9.80	35.43	68.20	-32.77	Pk	Vertical
3251.62	41.90	44.70	6.70	28.20	-9.80	32.10	54.00	-21.90	AV	Vertical
3261.37	45.17	44.70	6.70	28.20	-9.80	35.37	74.00	-38.63	Pk	Horizontal
3261.37	40.96	44.70	6.70	28.20	-9.80	31.16	54.00	-22.84	AV	Horizontal
3988.07	39.00	44.20	7.90	29.70	-6.60	32.40	74.00	-41.60	Pk	Vertical
3988.07	36.46	44.20	7.90	29.70	-6.60	29.86	54.00	-24.14	AV	Vertical
3983.82	39.80	44.20	7.90	29.70	-6.60	33.20	74.00	-40.80	Pk	Horizontal
3983.82	35.86	44.20	7.90	29.70	-6.60	29.26	54.00	-24.74	AV	Horizontal
7217.95	36.61	43.50	11.40	35.50	3.40	40.01	68.20	-28.19	Pk	Vertical
7217.95	33.57	43.50	11.40	35.50	3.40	36.97	54.00	-17.03	AV	Vertical
7222.00	37.10	43.50	11.40	35.50	3.40	40.50	68.20	-27.70	Pk	Horizontal
7222.00	34.92	43.50	11.40	35.50	3.40	38.32	54.00	-15.68	AV	Horizontal
13069.81	38.71	44.50	13.80	38.80	8.10	46.81	68.20	-21.39	Pk	Vertical
13069.81	35.78	44.50	13.80	38.80	8.10	43.88	54.00	-10.12	AV	Vertical
13069.93	38.72	44.50	13.80	38.80	8.10	46.82	68.20	-21.38	Pk	Horizontal
13069.93	36.79	44.50	13.80	38.80	8.10	44.89	54.00	-9.11	AV	Horizontal
16337.46	33.31	43.60	14.30	39.50	10.20	43.51	68.20	-24.69	Pk	Vertical
16337.46	30.68	43.60	14.30	39.50	10.20	40.88	54.00	-13.12	AV	Vertical
16318.93	33.99	43.60	14.30	39.50	10.20	44.19	68.20	-24.01	Pk	Horizontal
16318.93	30.32	43.60	14.30	39.50	10.20	40.52	54.00	-13.48	AV	Horizontal
19596.11	32.13	42.60	15.90	38.90	12.20	44.33	68.20	-23.87	Pk	Vertical
19596.11	29.46	42.60	15.90	38.90	12.20	41.66	54.00	-12.34	AV	Vertical
19587.97	31.84	42.60	15.90	38.90	12.20	44.04	68.20	-24.16	Pk	Horizontal
19587.97	28.94	42.60	15.90	38.90	12.20	41.14	54.00	-12.86	AV	Horizontal
Mid Channel (802.11/ 6695MHz)										
3265.27	44.26	44.70	6.70	28.20	-9.80	34.46	74.00	-39.54	Pk	Vertical
3265.27	41.01	44.70	6.70	28.20	-9.80	31.21	54.00	-22.79	AV	Vertical
3249.81	44.64	44.70	6.70	28.20	-9.80	34.84	68.20	-33.36	Pk	Horizontal
3249.81	41.08	44.70	6.70	28.20	-9.80	31.28	54.00	-22.72	AV	Horizontal
3981.22	39.20	44.20	7.90	29.70	-6.60	32.60	74.00	-41.40	Pk	Vertical
3981.22	35.99	44.20	7.90	29.70	-6.60	29.39	54.00	-24.61	AV	Vertical
3999.94	39.70	44.20	7.90	29.70	-6.60	33.10	74.00	-40.90	Pk	Horizontal
3999.94	36.59	44.20	7.90	29.70	-6.60	29.99	54.00	-24.01	AV	Horizontal
7233.02	36.47	43.50	11.40	35.50	3.40	39.87	68.20	-28.33	Pk	Vertical
7233.02	34.14	43.50	11.40	35.50	3.40	37.54	54.00	-16.46	AV	Vertical
7220.60	37.64	43.50	11.40	35.50	3.40	41.04	68.20	-27.16	Pk	Horizontal
7220.60	34.35	43.50	11.40	35.50	3.40	37.75	54.00	-16.25	AV	Horizontal
13389.51	39.11	44.50	13.80	38.80	8.10	47.21	68.20	-20.99	Pk	Vertical
13389.51	36.63	44.50	13.80	38.80	8.10	44.73	54.00	-9.27	AV	Vertical
13389.74	39.03	44.50	13.80	38.80	8.10	47.13	68.20	-21.07	Pk	Horizontal
13389.74	35.70	44.50	13.80	38.80	8.10	43.80	54.00	-10.20	AV	Horizontal
16721.84	33.52	43.60	14.30	39.50	10.20	43.72	68.20	-24.48	Pk	Vertical
16721.84	30.33	43.60	14.30	39.50	10.20	40.53	54.00	-13.47	AV	Vertical
16726.73	33.20	43.60	14.30	39.50	10.20	43.40	68.20	-24.80	Pk	Horizontal
16726.73	30.24	43.60	14.30	39.50	10.20	40.44	54.00	-13.56	AV	Horizontal
20071.32	32.49	42.60	15.90	38.90	12.20	44.69	68.20	-23.51	Pk	Vertical
20071.32	28.78	42.60	15.90	38.90	12.20	40.98	54.00	-13.02	AV	Vertical
20074.87	33.01	42.60	15.90	38.90	12.20	45.21	68.20	-22.99	Pk	Horizontal
20074.87	28.58	42.60	15.90	38.90	12.20	40.78	54.00	-13.22	AV	Horizontal
High Channel (802.11/ 6875MHz)										
3250.60	43.88	44.70	6.70	28.20	-9.80	34.08	68.20	-34.12	Pk	Vertical
3250.60	42.20	44.70	6.70	28.20	-9.80	32.40	54.00	-21.60	AV	Vertical
3260.16	43.77	44.70	6.70	28.20	-9.80	33.97	74.00	-40.03	Pk	Horizontal
3260.16	41.47	44.70	6.70	28.20	-9.80	31.67	54.00	-22.33	AV	Horizontal
3991.52	39.45	44.20	7.90	29.70	-6.60	32.85	74.00	-41.15	Pk	Vertical
3991.52	35.99	44.20	7.90	29.70	-6.60	29.39	54.00	-24.61	AV	Vertical



3992.26	39.73	44.20	7.90	29.70	-6.60	33.13	74.00	-40.87	Pk	Horizontal
3992.26	36.30	44.20	7.90	29.70	-6.60	29.70	54.00	-24.30	AV	Horizontal
7221.31	36.51	43.50	11.40	35.50	3.40	39.91	68.20	-28.29	Pk	Vertical
7221.31	33.71	43.50	11.40	35.50	3.40	37.11	54.00	-16.89	AV	Vertical
7217.81	37.85	43.50	11.40	35.50	3.40	41.25	68.20	-26.95	Pk	Horizontal
7217.81	34.35	43.50	11.40	35.50	3.40	37.75	54.00	-16.25	AV	Horizontal
13749.56	40.13	44.50	13.80	38.80	8.10	48.23	68.20	-19.97	Pk	Vertical
13749.56	36.92	44.50	13.80	38.80	8.10	45.02	54.00	-8.98	AV	Vertical
13749.92	39.31	44.50	13.80	38.80	8.10	47.41	68.20	-20.79	Pk	Horizontal
13749.92	35.73	44.50	13.80	38.80	8.10	43.83	54.00	-10.17	AV	Horizontal
17168.25	32.97	43.60	14.30	39.50	10.20	43.17	68.20	-25.03	Pk	Vertical
17168.25	30.98	43.60	14.30	39.50	10.20	41.18	54.00	-12.82	AV	Vertical
17186.97	33.73	43.60	14.30	39.50	10.20	43.93	68.20	-24.27	Pk	Horizontal
17186.97	30.72	43.60	14.30	39.50	10.20	40.92	54.00	-13.08	AV	Horizontal
20605.49	32.79	42.60	15.90	38.90	12.20	44.99	68.20	-23.21	Pk	Vertical
20605.49	28.92	42.60	15.90	38.90	12.20	41.12	54.00	-12.88	AV	Vertical
20606.42	31.96	42.60	15.90	38.90	12.20	44.16	68.20	-24.04	Pk	Horizontal
20606.42	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.



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	Comment
Low Channel (802.11/ 6895 MHz)										
3255.57	44.61	44.70	6.70	28.20	-9.80	34.81	68.20	-33.39	Pk	Vertical
3255.57	40.88	44.70	6.70	28.20	-9.80	31.08	54.00	-22.92	AV	Vertical
3255.21	44.75	44.70	6.70	28.20	-9.80	34.95	68.20	-33.25	Pk	Horizontal
3255.21	41.52	44.70	6.70	28.20	-9.80	31.72	54.00	-22.28	AV	Horizontal
3984.29	39.80	44.20	7.90	29.70	-6.60	33.20	74.00	-40.80	Pk	Vertical
3984.29	36.30	44.20	7.90	29.70	-6.60	29.70	54.00	-24.30	AV	Vertical
3987.87	39.27	44.20	7.90	29.70	-6.60	32.67	74.00	-41.33	Pk	Horizontal
3987.87	36.75	44.20	7.90	29.70	-6.60	30.15	54.00	-23.85	AV	Horizontal
7234.34	36.94	43.50	11.40	35.50	3.40	40.34	68.20	-27.86	Pk	Vertical
7234.34	34.44	43.50	11.40	35.50	3.40	37.84	54.00	-16.16	AV	Vertical
7216.75	36.71	43.50	11.40	35.50	3.40	40.11	68.20	-28.09	Pk	Horizontal
7216.75	34.14	43.50	11.40	35.50	3.40	37.54	54.00	-16.46	AV	Horizontal
13789.90	39.78	44.50	13.80	38.80	8.10	47.88	68.20	-20.32	Pk	Vertical
13789.90	35.80	44.50	13.80	38.80	8.10	43.90	54.00	-10.10	AV	Vertical
13789.92	39.38	44.50	13.80	38.80	8.10	47.48	68.20	-20.72	Pk	Horizontal
13789.92	36.36	44.50	13.80	38.80	8.10	44.46	54.00	-9.54	AV	Horizontal
17218.38	32.93	43.60	14.30	39.50	10.20	43.13	68.20	-25.07	Pk	Vertical
17218.38	30.76	43.60	14.30	39.50	10.20	40.96	54.00	-13.04	AV	Vertical
17233.02	33.13	43.60	14.30	39.50	10.20	43.33	68.20	-24.87	Pk	Horizontal
17233.02	30.90	43.60	14.30	39.50	10.20	41.10	54.00	-12.90	AV	Horizontal
20682.73	31.68	42.60	15.90	38.90	12.20	43.88	68.20	-24.32	Pk	Vertical
20682.73	28.89	42.60	15.90	38.90	12.20	41.09	54.00	-12.91	AV	Vertical
20683.42	32.61	42.60	15.90	38.90	12.20	44.81	68.20	-23.39	Pk	Horizontal
20683.42	29.27	42.60	15.90	38.90	12.20	41.47	54.00	-12.53	AV	Horizontal
Mid Channel (802.11/ 6995 MHz)										
3260.84	44.60	44.70	6.70	28.20	-9.80	34.80	74.00	-39.20	Pk	Vertical
3260.84	42.13	44.70	6.70	28.20	-9.80	32.33	54.00	-21.67	AV	Vertical
3255.58	45.11	44.70	6.70	28.20	-9.80	35.31	68.20	-32.89	Pk	Horizontal
3255.58	40.96	44.70	6.70	28.20	-9.80	31.16	54.00	-22.84	AV	Horizontal
3999.23	38.68	44.20	7.90	29.70	-6.60	32.08	74.00	-41.92	Pk	Vertical
3999.23	36.96	44.20	7.90	29.70	-6.60	30.36	54.00	-23.64	AV	Vertical
3981.79	38.91	44.20	7.90	29.70	-6.60	32.31	74.00	-41.69	Pk	Horizontal
3981.79	36.80	44.20	7.90	29.70	-6.60	30.20	54.00	-23.80	AV	Horizontal
7232.27	37.01	43.50	11.40	35.50	3.40	40.41	68.20	-27.79	Pk	Vertical
7232.27	34.89	43.50	11.40	35.50	3.40	38.29	54.00	-15.71	AV	Vertical
7223.08	36.57	43.50	11.40	35.50	3.40	39.97	68.20	-28.23	Pk	Horizontal
7223.08	34.31	43.50	11.40	35.50	3.40	37.71	54.00	-16.29	AV	Horizontal
13989.51	38.91	44.50	13.80	38.80	8.10	47.01	68.20	-21.19	Pk	Vertical
13989.51	36.39	44.50	13.80	38.80	8.10	44.49	54.00	-9.51	AV	Vertical
13989.97	39.16	44.50	13.80	38.80	8.10	47.26	68.20	-20.94	Pk	Horizontal
13989.97	36.39	44.50	13.80	38.80	8.10	44.49	54.00	-9.51	AV	Horizontal
17470.06	33.38	43.60	14.30	39.50	10.20	43.58	68.20	-24.62	Pk	Vertical
17470.06	30.45	43.60	14.30	39.50	10.20	40.65	54.00	-13.35	AV	Vertical
17471.11	33.98	43.60	14.30	39.50	10.20	44.18	68.20	-24.02	Pk	Horizontal
17471.11	30.40	43.60	14.30	39.50	10.20	40.60	54.00	-13.40	AV	Horizontal
20974.15	31.67	42.60	15.90	38.90	12.20	43.87	68.20	-24.33	Pk	Vertical
20974.15	28.89	42.60	15.90	38.90	12.20	41.09	54.00	-12.91	AV	Vertical
20978.56	32.12	42.60	15.90	38.90	12.20	44.32	68.20	-23.88	Pk	Horizontal
20978.56	28.87	42.60	15.90	38.90	12.20	41.07	54.00	-12.93	AV	Horizontal
High Channel (802.11/ 7115 MHz)										
3261.60	45.24	44.70	6.70	28.20	-9.80	35.44	74.00	-38.56	Pk	Vertical
3261.60	41.06	44.70	6.70	28.20	-9.80	31.26	54.00	-22.74	AV	Vertical
3257.87	44.07	44.70	6.70	28.20	-9.80	34.27	68.20	-33.93	Pk	Horizontal
3257.87	41.29	44.70	6.70	28.20	-9.80	31.49	54.00	-22.51	AV	Horizontal



3990.53	39.10	44.20	7.90	29.70	-6.60	32.50	74.00	-41.50	Pk	Vertical
3990.53	36.29	44.20	7.90	29.70	-6.60	29.69	54.00	-24.31	AV	Vertical
3982.07	39.56	44.20	7.90	29.70	-6.60	32.96	74.00	-41.04	Pk	Horizontal
3982.07	36.12	44.20	7.90	29.70	-6.60	29.52	54.00	-24.48	AV	Horizontal
7222.37	37.77	43.50	11.40	35.50	3.40	41.17	68.20	-27.03	Pk	Vertical
7222.37	34.21	43.50	11.40	35.50	3.40	37.61	54.00	-16.39	AV	Vertical
7217.83	37.44	43.50	11.40	35.50	3.40	40.84	68.20	-27.36	Pk	Horizontal
7217.83	33.68	43.50	11.40	35.50	3.40	37.08	54.00	-16.92	AV	Horizontal
14229.99	39.98	44.50	13.80	38.80	8.10	48.08	68.20	-20.12	Pk	Vertical
14229.99	35.82	44.50	13.80	38.80	8.10	43.92	54.00	-10.08	AV	Vertical
14229.79	38.72	44.50	13.80	38.80	8.10	46.82	68.20	-21.38	Pk	Horizontal
14229.79	37.04	44.50	13.80	38.80	8.10	45.14	54.00	-8.86	AV	Horizontal
17776.81	33.49	43.60	14.30	39.50	10.20	43.69	68.20	-24.51	Pk	Vertical
17776.81	30.74	43.60	14.30	39.50	10.20	40.94	54.00	-13.06	AV	Vertical
17774.23	33.04	43.60	14.30	39.50	10.20	43.24	68.20	-24.96	Pk	Horizontal
17774.23	29.92	43.60	14.30	39.50	10.20	40.12	54.00	-13.88	AV	Horizontal
21327.53	31.73	42.60	15.90	38.90	12.20	43.93	68.20	-24.27	Pk	Vertical
21327.53	29.79	42.60	15.90	38.90	12.20	41.99	54.00	-12.01	AV	Vertical
21337.34	31.95	42.60	15.90	38.90	12.20	44.15	68.20	-24.05	Pk	Horizontal
21337.34	29.73	42.60	15.90	38.90	12.20	41.93	54.00	-12.07	AV	Horizontal

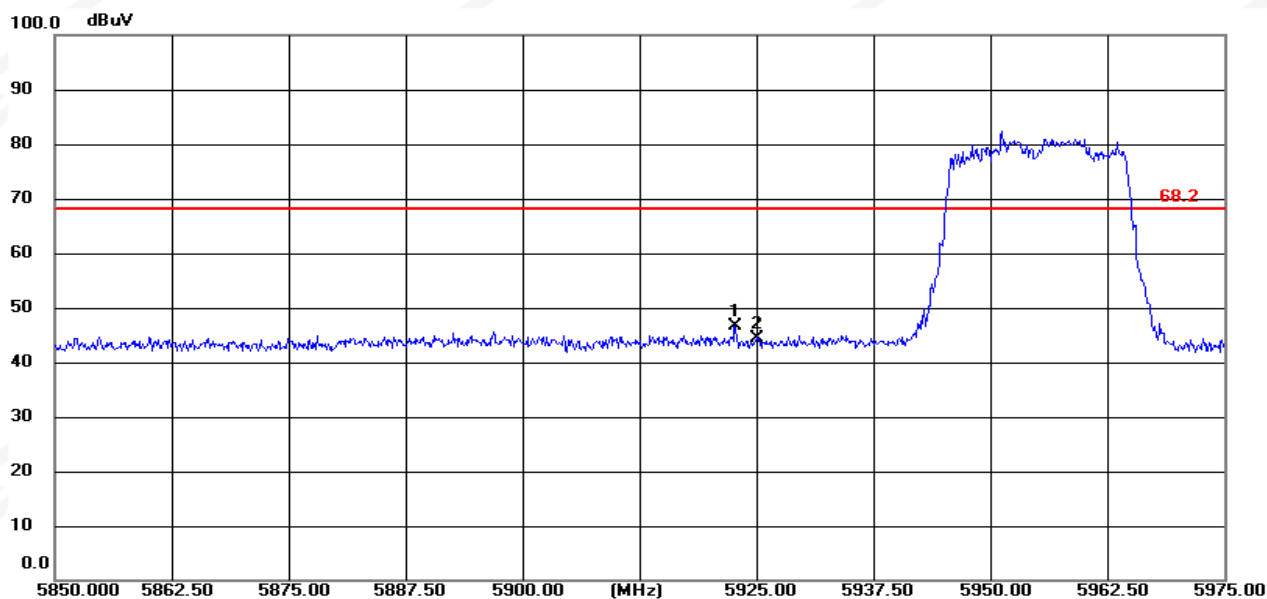
Remark:

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.

3.2.9 RESTRICTED FREQUENCY BANDS AND BAND EDGE

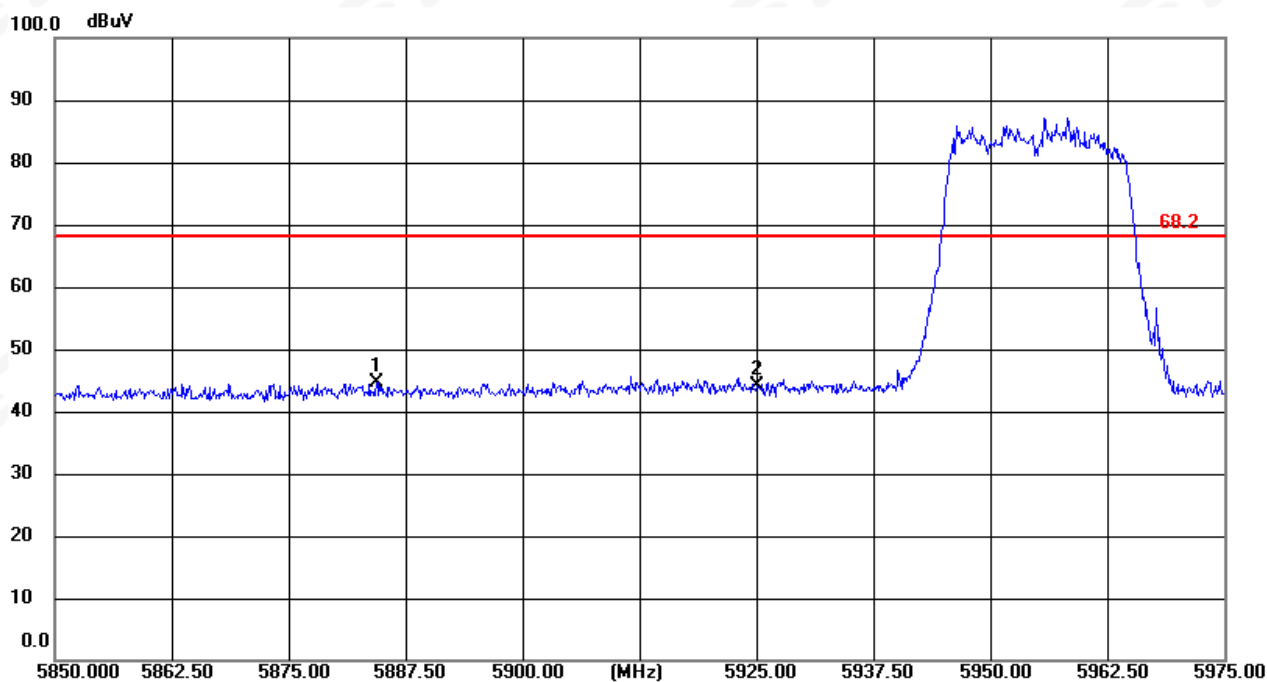
U-NII-5/6/7/8

802.11ax-L-H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	5922.750	53.75	-7.03	46.72	68.20	-21.48	peak
2	5925.000	51.40	-7.03	44.37	68.20	-23.83	peak

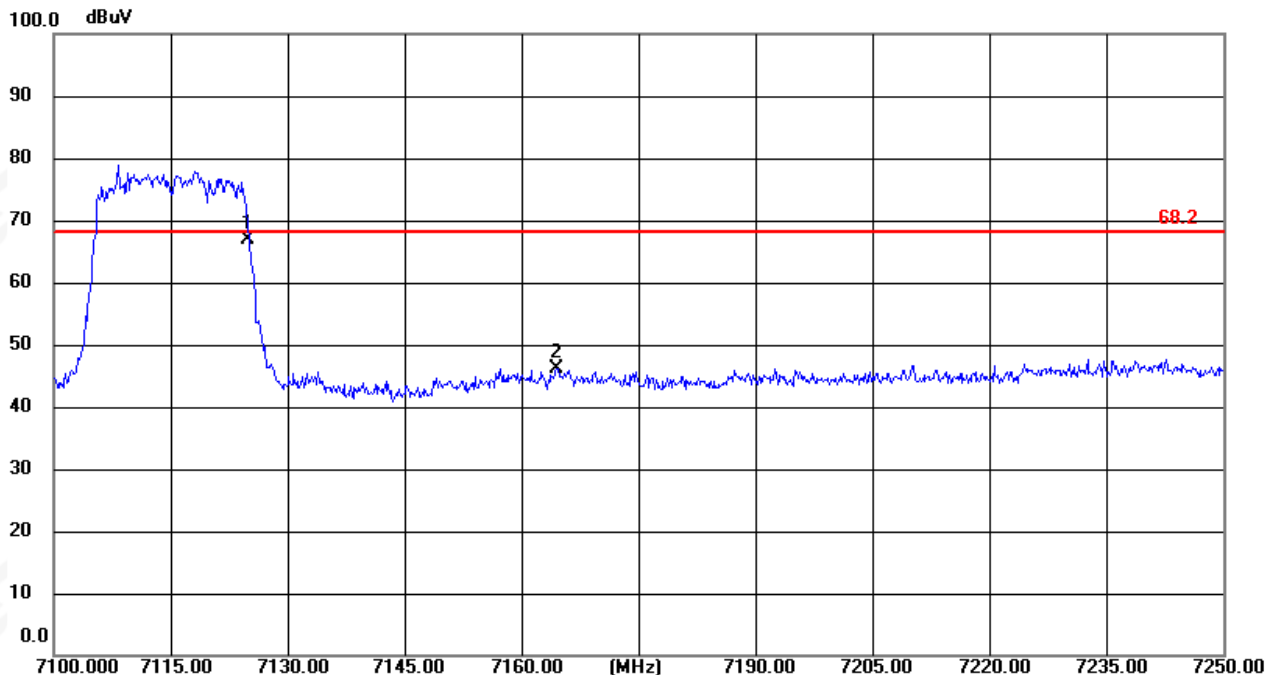
802.11ax-L-V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	5884.375	51.83	-7.10	44.73	68.20	-23.47	peak
2	5925.000	51.16	-7.03	44.13	68.20	-24.07	peak

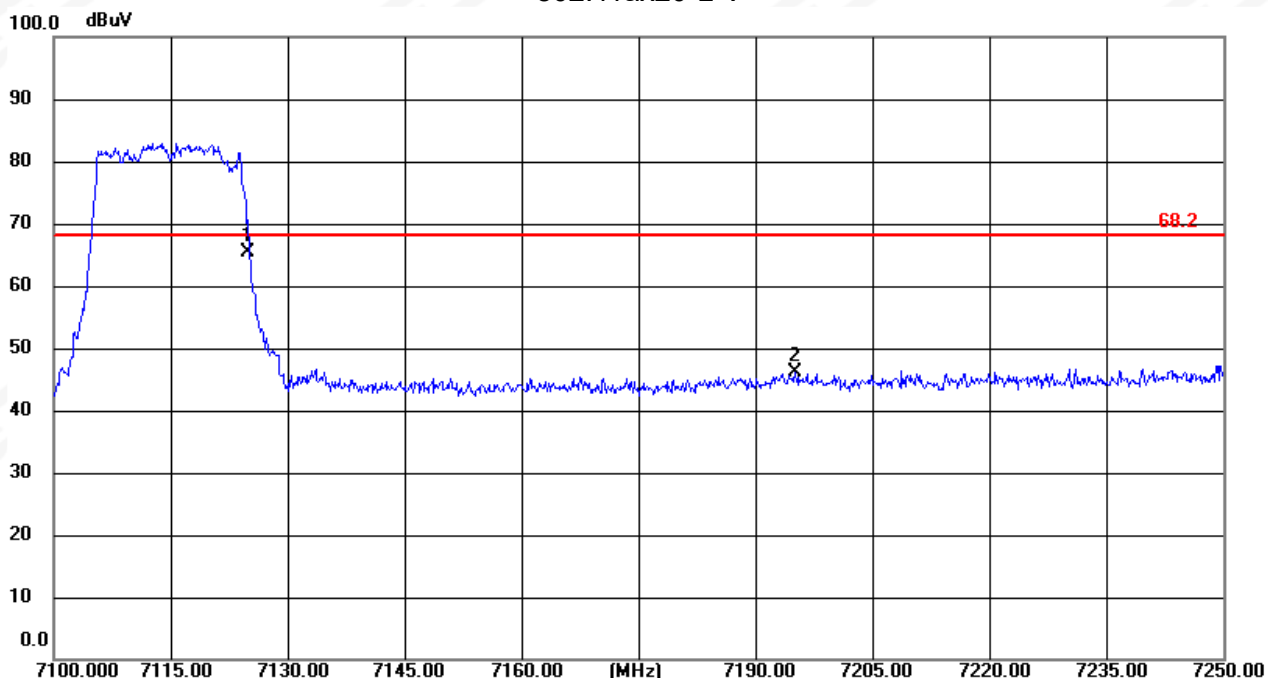


802.11ax20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	7125.000	71.18	-4.31	66.87	68.20	-1.33	peak
2	7164.500	50.45	-4.22	46.23	68.20	-21.97	peak

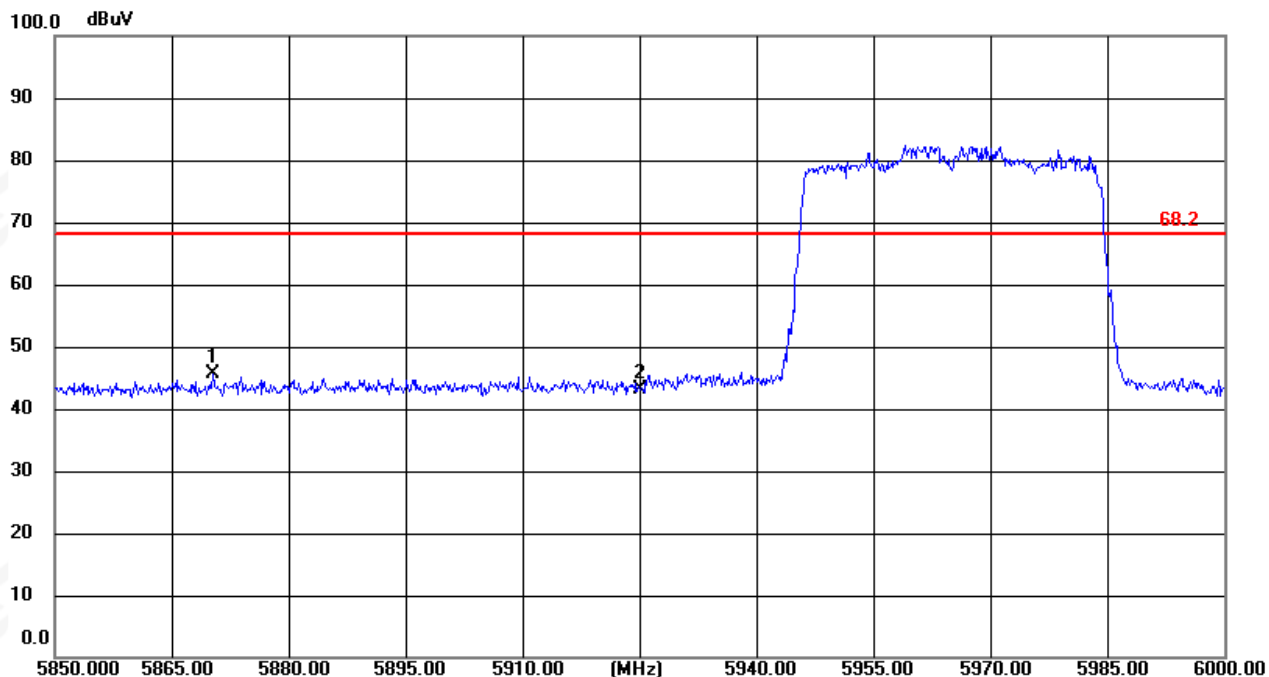
802.11ax20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	7125.000	69.67	-4.31	65.36	68.20	-2.84	peak
2	7195.100	50.15	-4.14	46.01	68.20	-22.19	peak

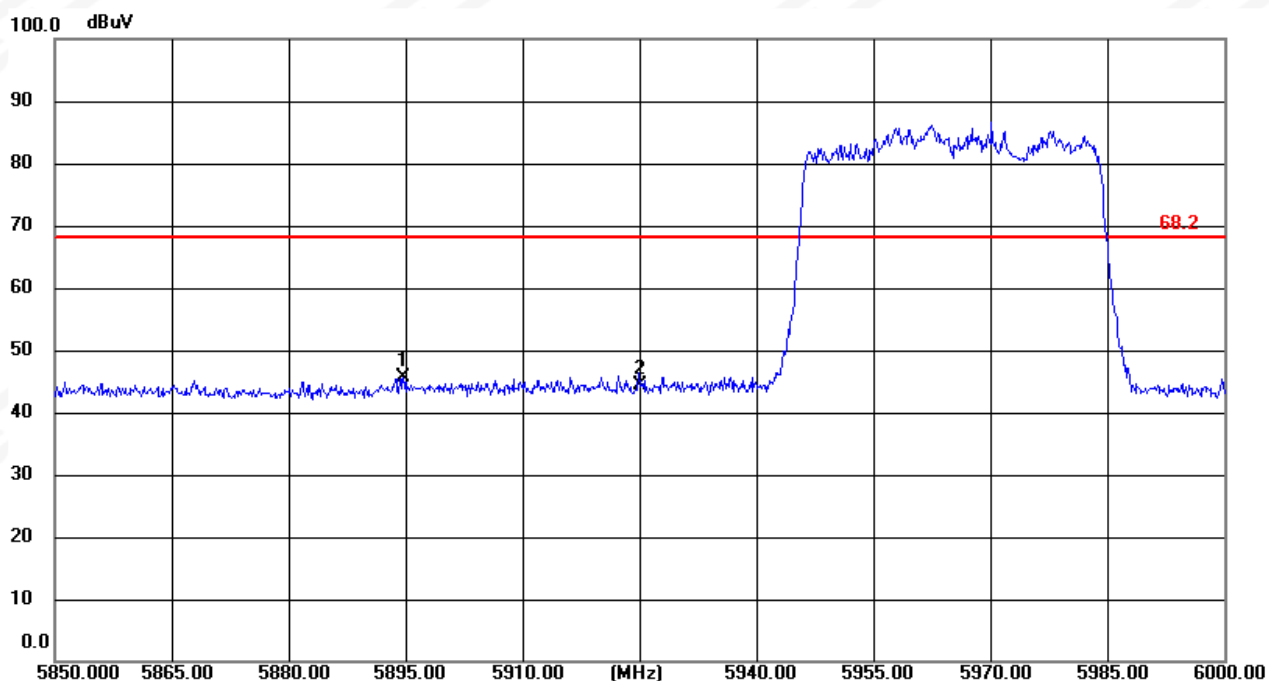


802.11ax40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	5870.250	52.68	-7.12	45.56	68.20	-22.64	peak
2	5925.000	50.27	-7.03	43.24	68.20	-24.96	peak

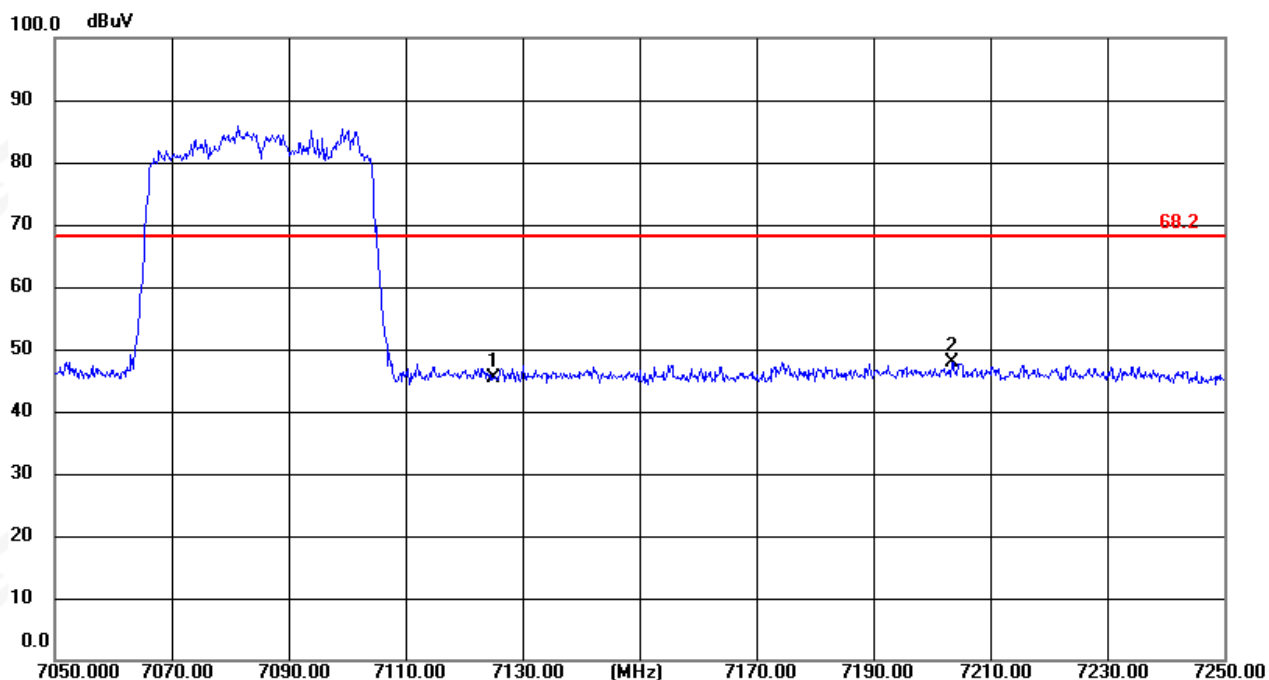
802.11ax40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	5894.700	52.65	-7.08	45.57	68.20	-22.63	peak
2	5925.000	51.37	-7.03	44.34	68.20	-23.86	peak

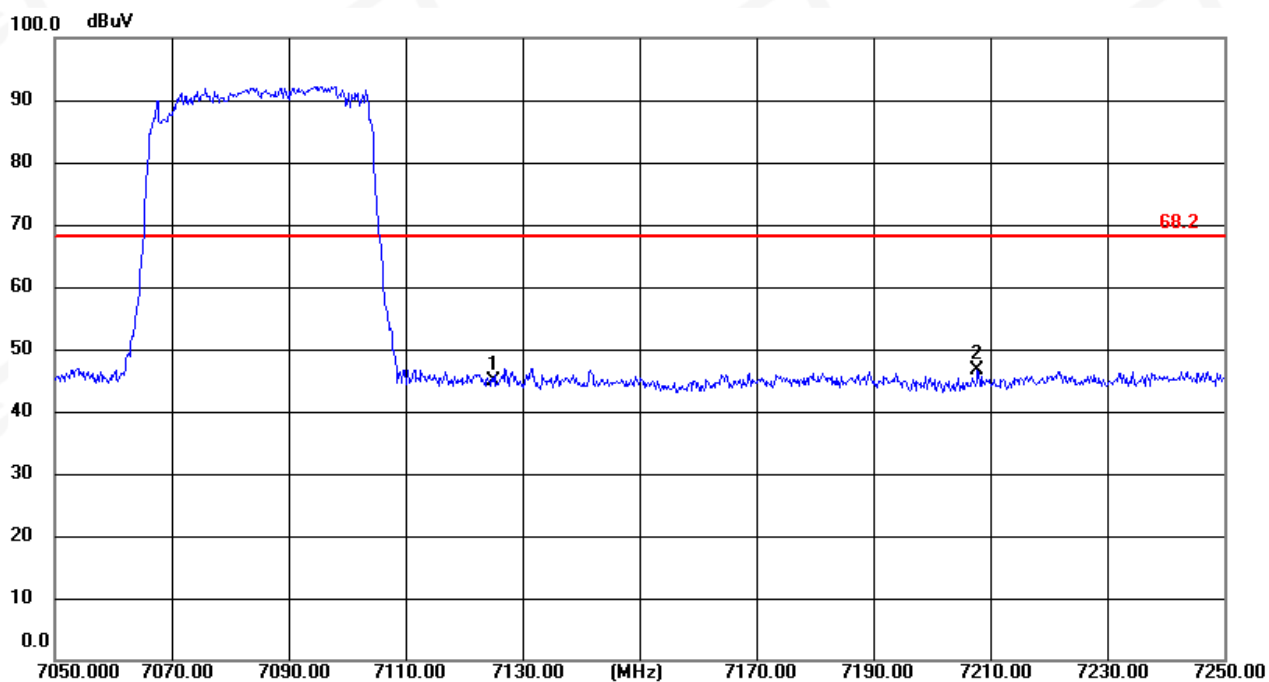


802.11ax40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	7125.000	49.61	-4.31	45.30	68.20	-22.90	peak
2 *	7203.400	52.02	-4.14	47.88	68.20	-20.32	peak

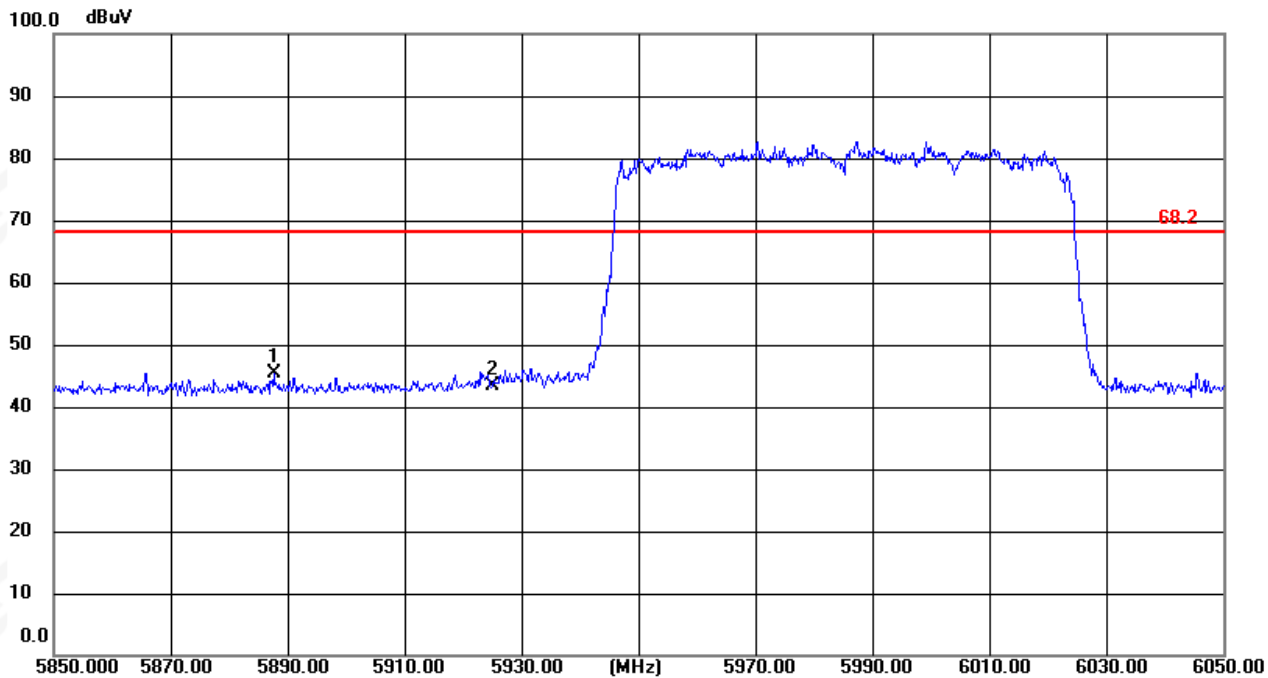
802.11ax40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	7125.000	49.24	-4.31	44.93	68.20	-23.27	peak
2 *	7207.800	50.82	-4.12	46.70	68.20	-21.50	peak

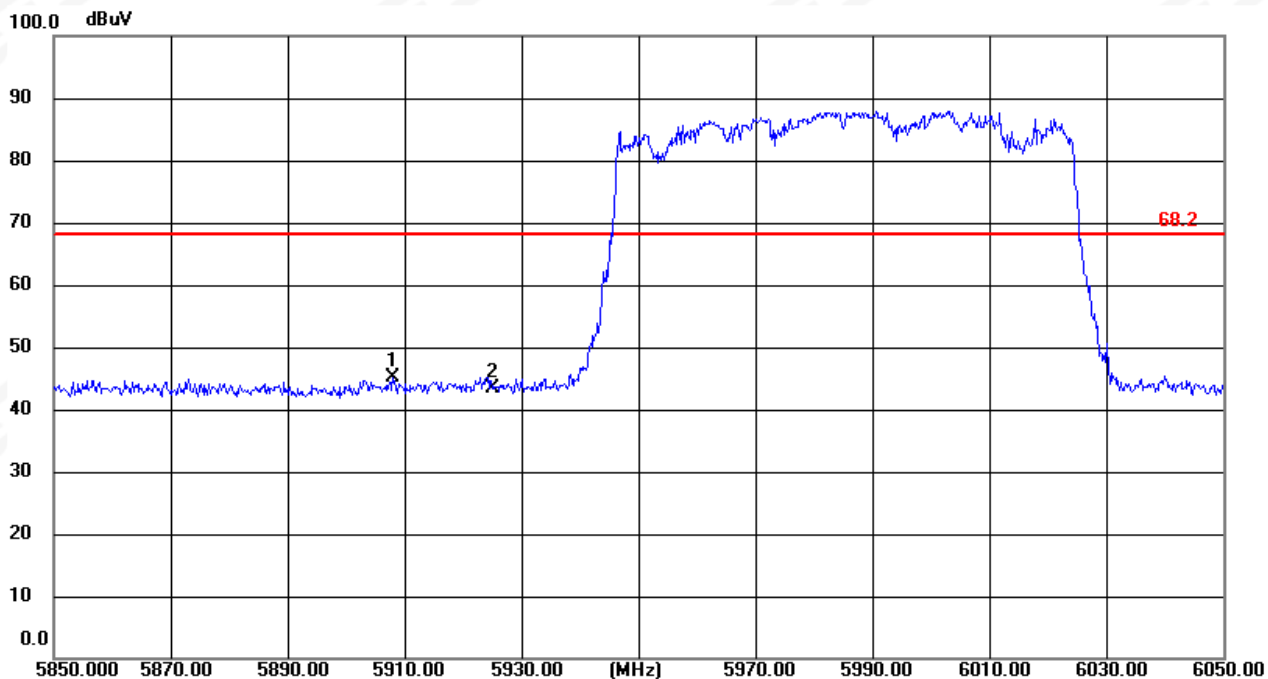


802.11ax80-L-H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	5887.600	52.40	-7.09	45.31	68.20	-22.89	peak
2	5925.000	50.42	-7.03	43.39	68.20	-24.81	peak

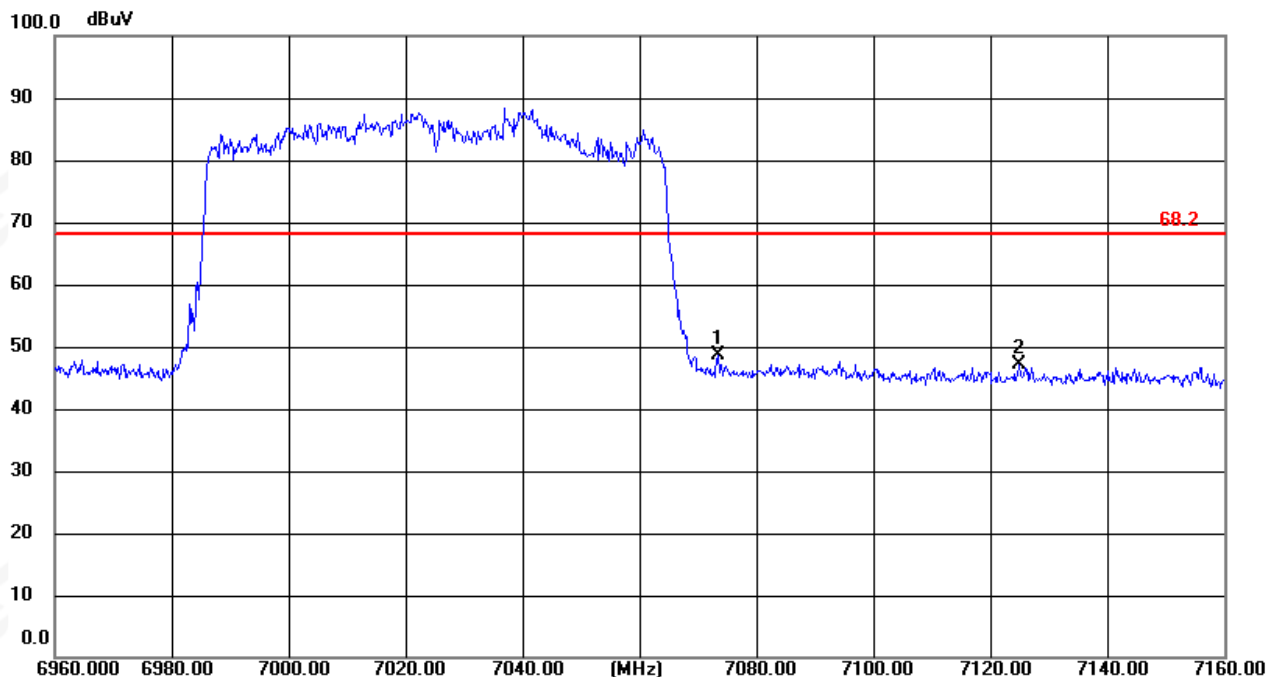
802.11ax80-L-V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	5908.000	52.25	-7.05	45.20	68.20	-23.00	peak
2	5925.000	50.53	-7.03	43.50	68.20	-24.70	peak

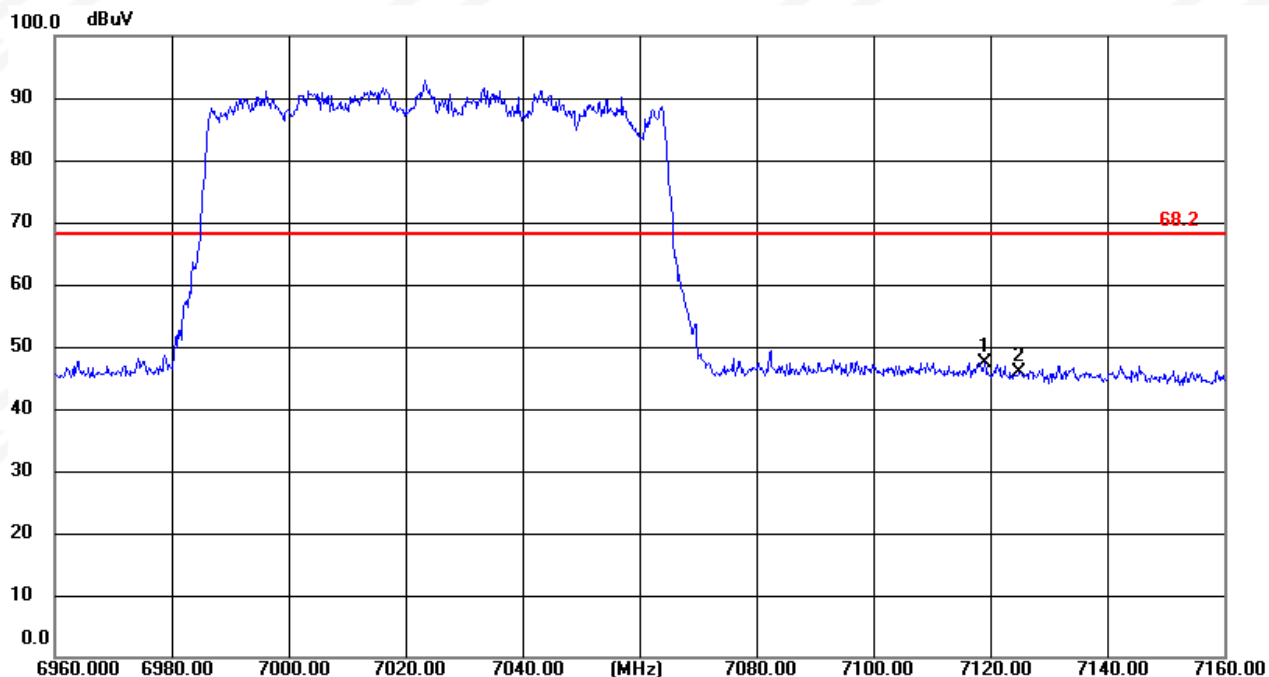


802.11ax80-L-H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	7073.400	53.16	-4.43	48.73	68.20	-19.47	peak
2	7125.000	51.35	-4.31	47.04	68.20	-21.16	peak

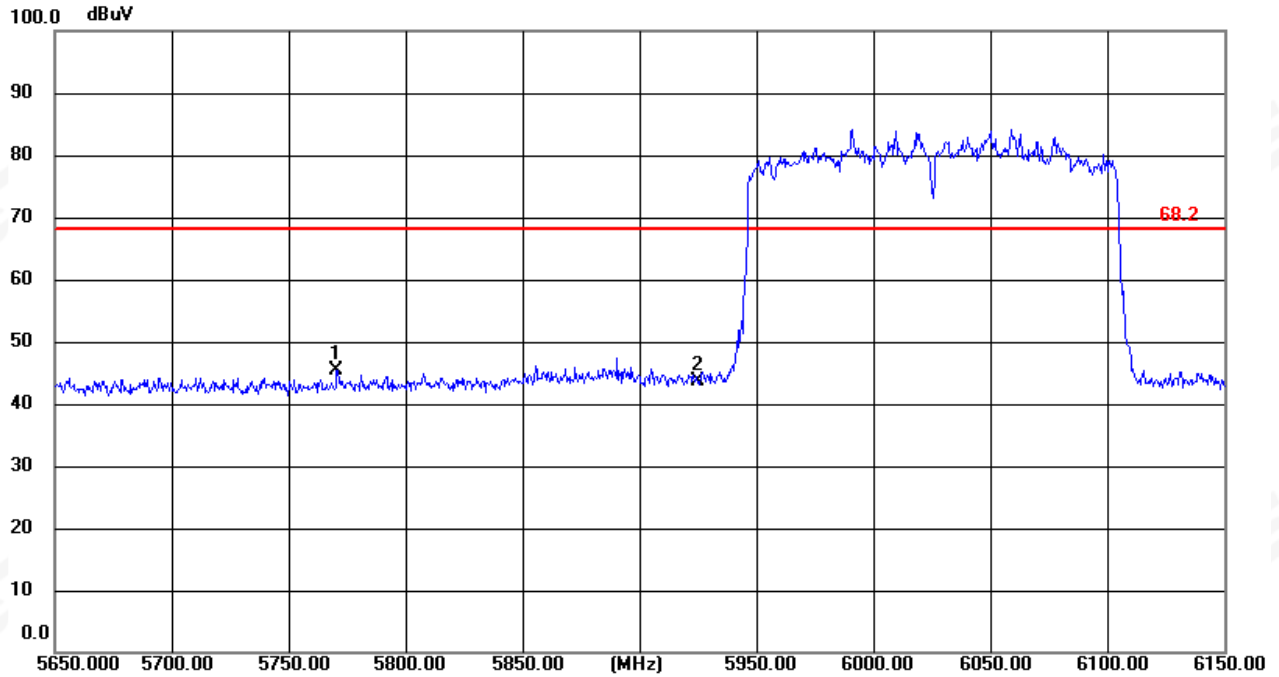
802.11ax80-L-V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	7119.000	51.75	-4.32	47.43	68.20	-20.77	peak
2	7125.000	50.18	-4.31	45.87	68.20	-22.33	peak

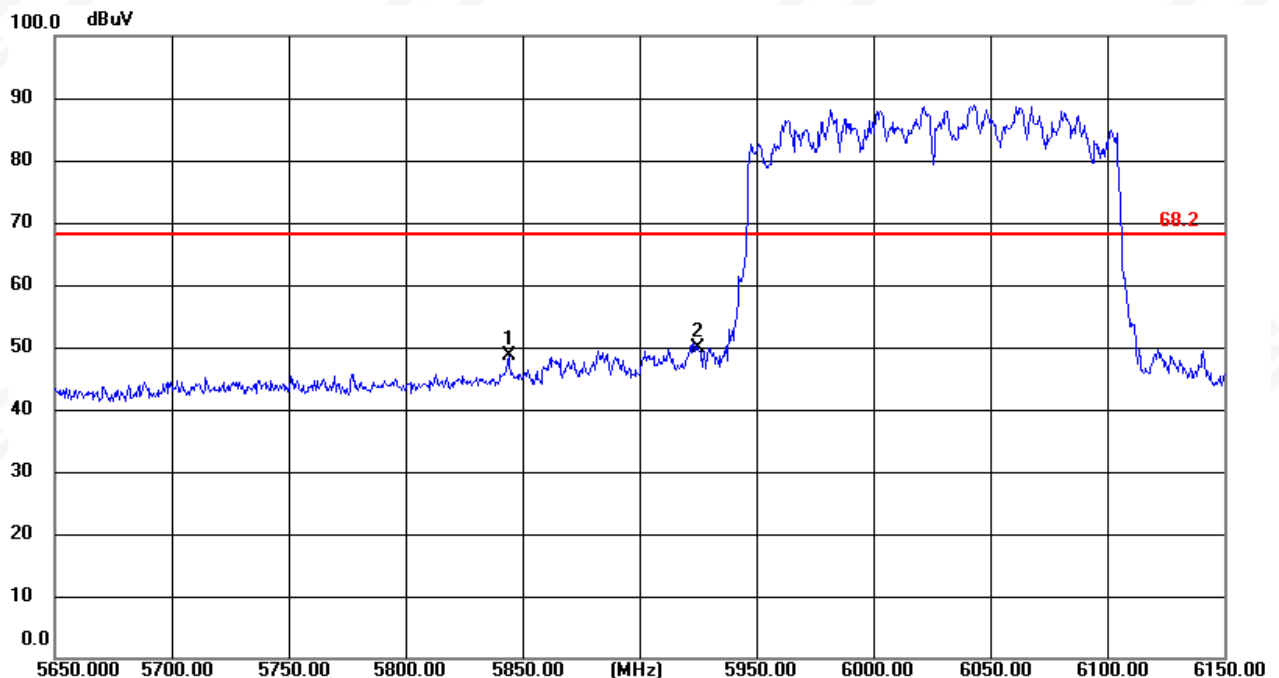


802.11ax160-L-H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	5770.500	52.64	-7.29	45.35	68.20	-22.85	peak
2	5925.000	50.69	-7.03	43.66	68.20	-24.54	peak

802.11ax160-L-V

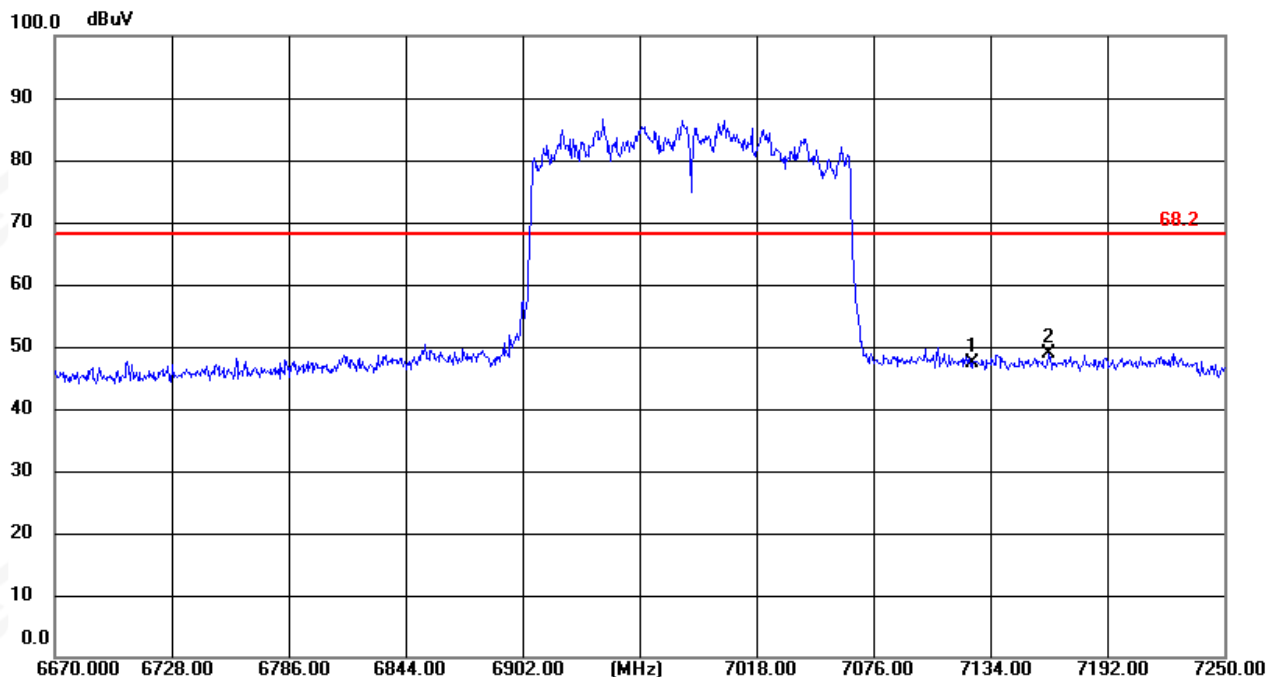


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	5844.000	55.79	-7.16	48.63	68.20	-19.57	peak
2 *	5925.000	56.87	-7.03	49.84	68.20	-18.36	peak

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

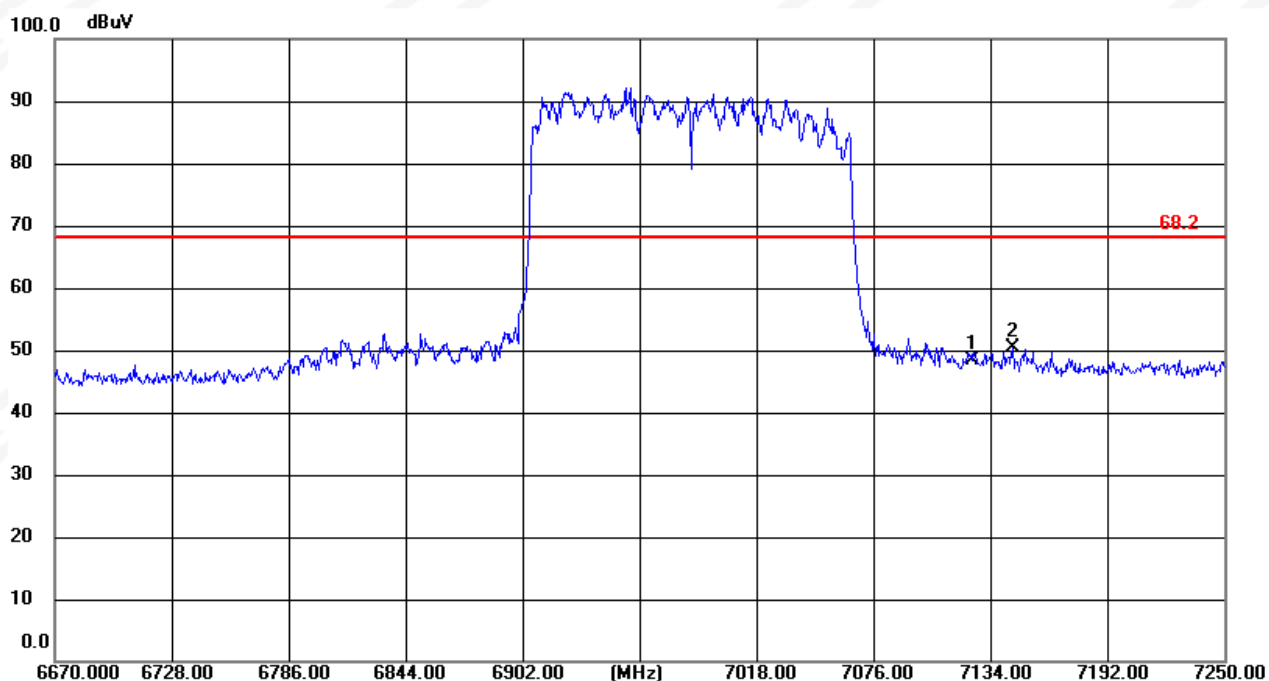


802.11ax160-L-H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	7125.000	51.62	-4.31	47.31	68.20	-20.89	peak
2 *	7163.000	53.11	-4.22	48.89	68.20	-19.31	peak

802.11ax160-L-V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	7125.000	52.74	-4.31	48.43	68.20	-19.77	peak
2 *	7145.020	54.53	-4.26	50.27	68.20	-17.93	peak

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

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 "STS2512364W06_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

Note: The test data please reference to attachment“STS2512364W06_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.

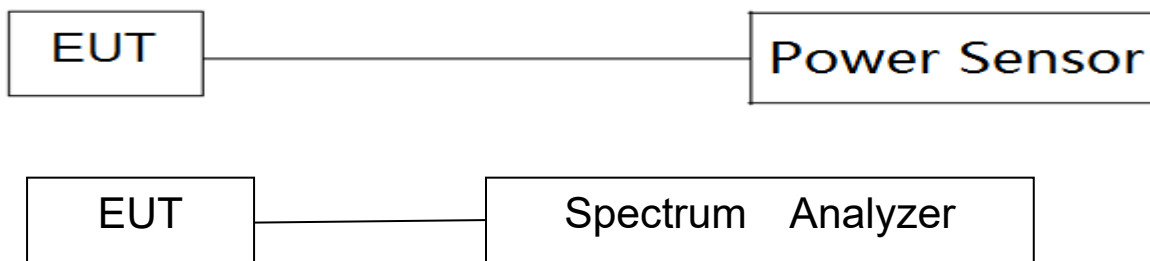
6.2 TEST PROCEDURE

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“STS2512364W06_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“STS2512364W06_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.

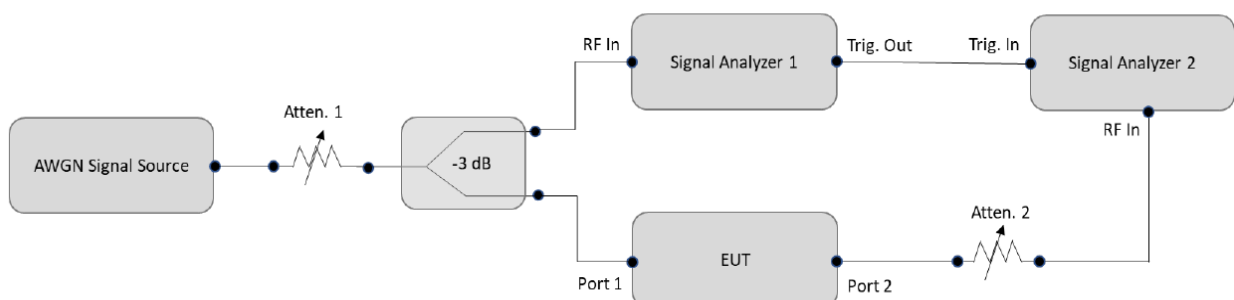
8.2 TEST PROCEDURE

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
“STS2512364W06_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 Internal 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*****