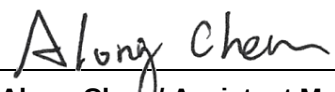


FCC C2PC Test Report

FCC ID : SQG-PH45N
Equipment : 802.11a/b/g/n module
Model No. : PH45N
Brand Name : Laird Connectivity
Applicant : Laird Connectivity LLC
Address : W66N220 Commerce Court, Cedarburg, WI
53012 United States Of America
Standard : 47 CFR FCC Part 15.407
Received Date : Mar. 07, 2022
Tested Date : Apr. 07 ~ Apr. 22, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

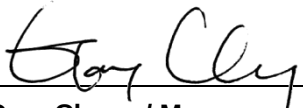

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR811202-04AN	Rev. 01	Initial issue	May 18, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 19.428MHz 31.82 (Margin -18.18dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 10640.00MHz 52.98 (Margin -1.02dB) - AV	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: 5150~5250MHz: 14.76 5250~5350MHz: 14.54 5470~5725MHz: 15.89 5725~5850MHz: 15.41	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

This report is prepared for FCC class II permissive change.

This report is issued as a supplementary report to original ICC report no. FR811202AN. The modification is concerned with following:

- ✧ New brand name, applicant name and address.
- ✧ Power Amplifier, Diplexer and RF Shielding Can changed.

Therefore, related test items had been performed and presented in the following sections.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	1	MCS 0-7
Note 1: OFDM BPSK, QPSK, 16QAM, 64QAM modulation.					

1.1.2 Antenna Details

Ant No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
					2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	Laird	NanoBlade-IP04	PCB Dipole	IPEX U.FL	2	3.9		4	

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
-------------------	------------------

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20	
Channel	Frequency(MHz)
36	5180
40	5200
44	5220
48	5240
52	5260
56	5280
60	5300
64	5320
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
149	5745
153	5765
157	5785
161	5805
165	5825

1.1.6 Test Tool and Duty Cycle

Test Tool	Putty, Version: 0.60.0.0		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	99.65%	0.02
	HT20	99.63%	0.02

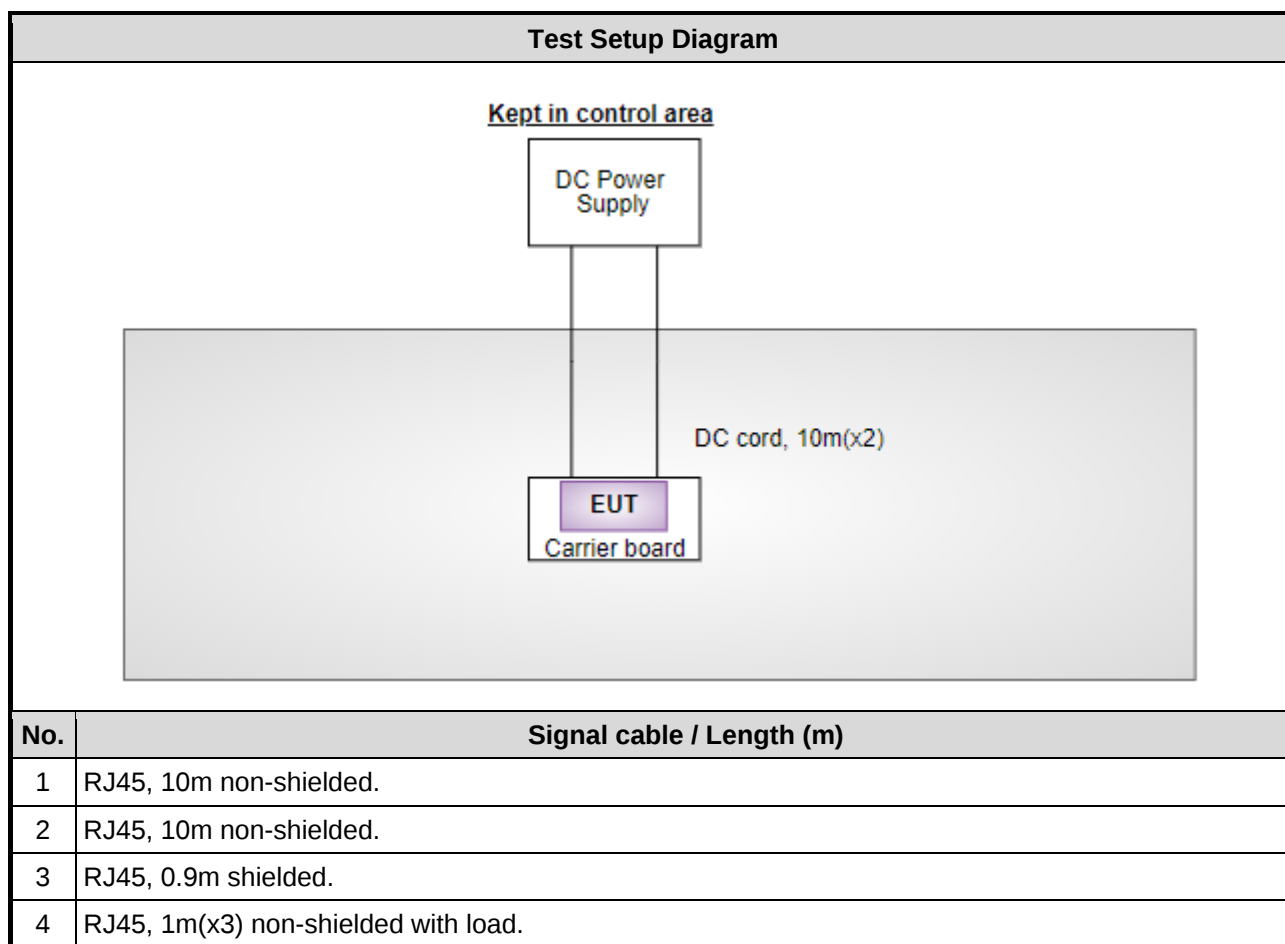
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	14
11a	5200	14
11a	5240	14
11a	5260	14
11a	5300	14
11a	5320	14
11a	5500	16
11a	5580	16.5
11a	5700	17
11a	5745	16.5
11a	5785	17
11a	5825	16.5
HT20	5180	14
HT20	5200	14
HT20	5240	14
HT20	5260	14
HT20	5300	14
HT20	5320	14
HT20	5500	16
HT20	5580	16.5
HT20	5700	17
HT20	5745	17
HT20	5785	17
HT20	5825	17

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	DC Power Supply	GWINSTEK	GPC-60300	---	---
2	Carrier board	Laird	PH45N_EXTENDER_A0	---	---
3	Fixture	Laird	BB45NBT	----	---
4	Notebook	DELL	Latitude E5470	DoC	Provided by applicant.

1.3 Test Setup Chart



Note: The support notebook and fixture were disconnected from EUT and removed from test table when EUT is set to transmit/receive continuously.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Apr. 18, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101295	Jan. 12, 2022	Jan. 11, 2023
LISN (Support Unit)	SCHWARZBECK	NSLK 8127	8127667	Jan. 07, 2022	Jan. 06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Apr. 07 ~ Apr. 14, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101499	Mar. 08, 2022	Mar. 07, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	May 06, 2021	May 05, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2021	Dec. 19, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 26, 2021	Jul. 25, 2022
Preamplifier	Agilent	83017A	MY39501309	Sep. 06, 2021	Sep. 05, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 24, 2021	Sep. 23, 2022
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 24, 2021	Sep. 23, 2022
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 24, 2021	Sep. 23, 2022
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 24, 2021	Sep. 23, 2022
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 24, 2021	Sep. 23, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Apr. 22, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
DC POWER SOURCE	GW INSTRON	GPC-6030D	GES855395	Nov. 08, 2021	Nov. 07, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10.7.18	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407

ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.96 dB
Unwanted Emission > 1 GHz	± 4.51 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISSED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	11a	5580	6 Mbps	---
Unwanted Emissions ≤1GHz	11a	5580	6 Mbps	---
Conducted Output Power Unwanted Emissions >1GHz	11a	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700	6 Mbps	---
	HT20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700	MCS 0	
Frequency Stability	Un-modulation	5320	---	---
Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	11a	5785	6 Mbps	---
Unwanted Emissions ≤1GHz	11a	5785	6 Mbps	---
Unwanted Emissions >1GHz Conducted Output Power	11a	5745 / 5785 / 5825	6 Mbps	---
	HT20	5745 / 5785 / 5825	MCS 0	
Frequency Stability	Un-modulation	5785	---	---
NOTE:				
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.				

3 Transmitter Test Results

3.1 Conducted Output Power

3.1.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☒	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☐	Client devices	Conducted Power: 250 mW

Frequency Band (MHz)	Limit
☒ 5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒ 5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
☒ 5725 ~ 5850	Conducted Power: 1 W

Note: "B" is the 26dB emission bandwidth in MHz.

3.1.2 Test Procedures

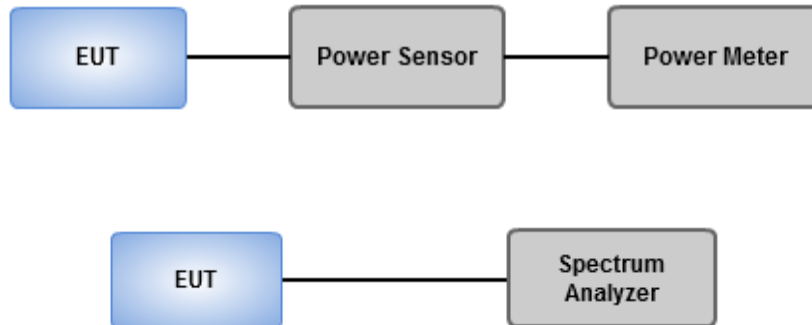
Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	22°C / 65%	Tested By	Brad Wu
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Refer to Appendix A.

3.2 Unwanted Emissions

3.2.1 Limit of Unwanted Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	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 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.2.2 Test Procedures

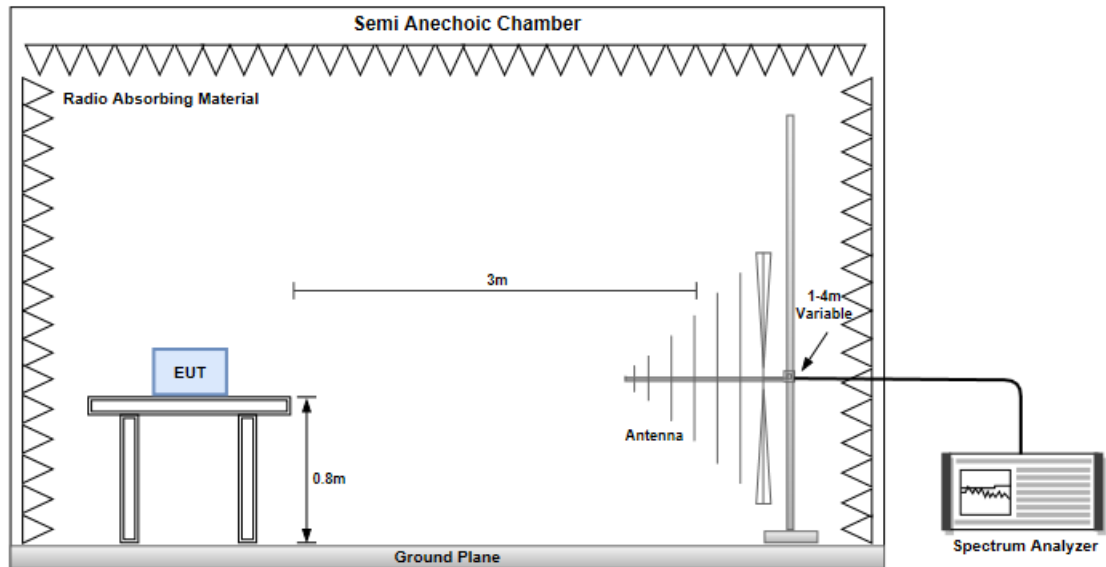
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

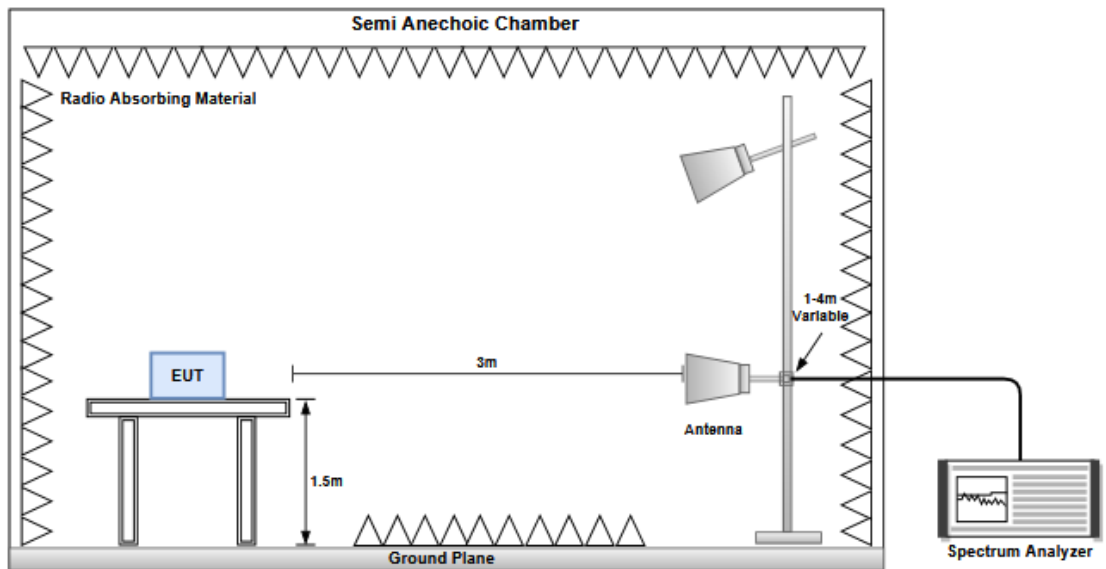
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.2.3 Test Setup

Unwanted Emissions below 1 GHz



Unwanted Emissions above 1 GHz



3.2.4 Test Results

Refer to Appendix B.

3.3 Frequency Stability

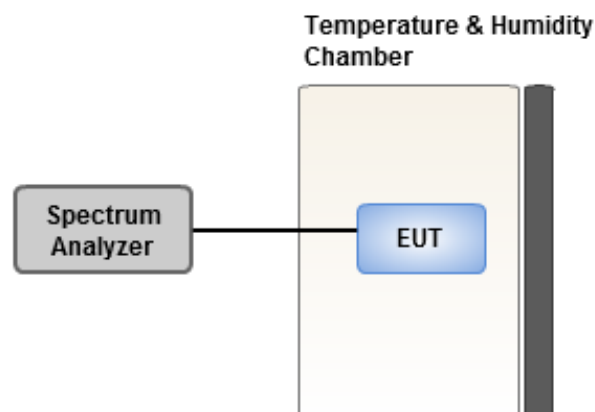
3.3.1 Limit of Frequency Stability

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

3.3.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	22°C / 65%	Tested By	Brad Wu
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Refer to Appendix C.

3.4 AC Power Line Conducted Emissions

3.4.1 Limit of AC Power Line Conducted Emissions

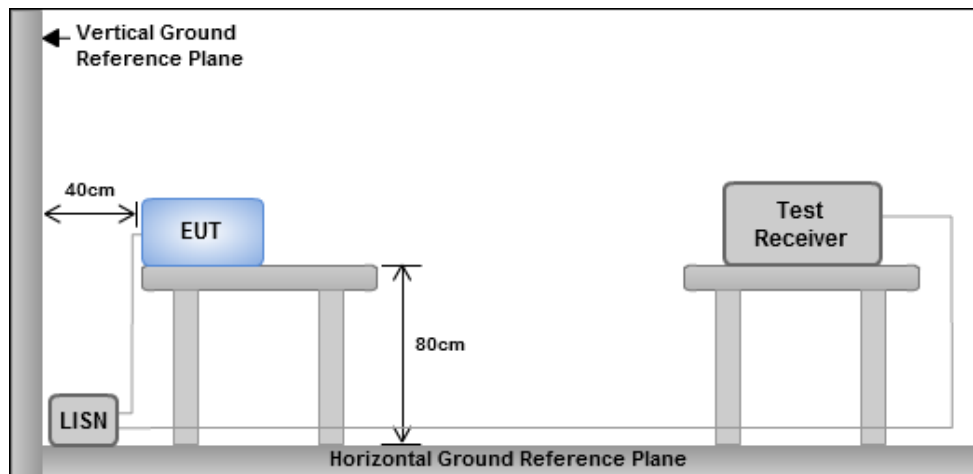
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.4.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.4.3 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

3.4.4 Test Results

Refer to Appendix D.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	14.76	0.02992	18.66	0.07345
802.11n HT20_Nss1,(MCS0)_1TX	14.58	0.02871	18.48	0.07047
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	14.42	0.02767	18.32	0.06792
802.11n HT20_Nss1,(MCS0)_1TX	14.54	0.02844	18.44	0.06982
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	15.89	0.03882	19.89	0.09750
802.11n HT20_Nss1,(MCS0)_1TX	15.59	0.03622	19.59	0.09099
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	15.41	0.03475	19.41	0.08730
802.11n HT20_Nss1,(MCS0)_1TX	15.22	0.03327	19.22	0.08356

Result

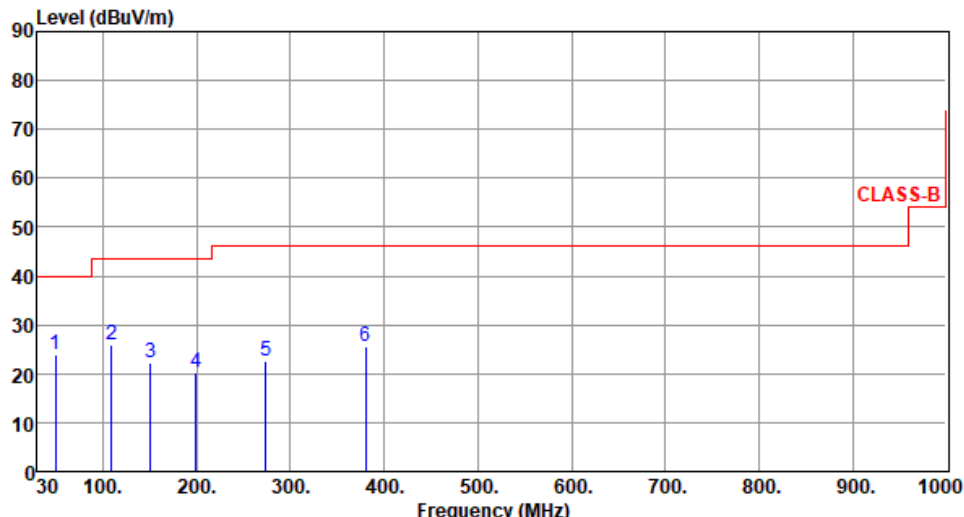
Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.90	14.34	14.34	24.00	18.24	30.00
5200MHz	Pass	3.90	14.61	14.61	24.00	18.51	30.00
5240MHz	Pass	3.90	14.76	14.76	24.00	18.66	30.00
5260MHz	Pass	3.90	14.42	14.42	24.00	18.32	30.00
5300MHz	Pass	3.90	14.35	14.35	24.00	18.25	30.00
5320MHz	Pass	3.90	14.34	14.34	24.00	18.24	30.00
5500MHz	Pass	4.00	15.21	15.21	24.00	19.21	30.00
5580MHz	Pass	4.00	15.89	15.89	24.00	19.89	30.00
5700MHz	Pass	4.00	15.21	15.21	24.00	19.21	30.00
5745MHz	Pass	4.00	14.86	14.86	30.00	18.86	36.00
5785MHz	Pass	4.00	15.41	15.41	30.00	19.41	36.00
5825MHz	Pass	4.00	15.16	15.16	30.00	19.16	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.90	14.21	14.21	24.00	18.11	30.00
5200MHz	Pass	3.90	14.46	14.46	24.00	18.36	30.00
5240MHz	Pass	3.90	14.58	14.58	24.00	18.48	30.00
5260MHz	Pass	3.90	14.34	14.34	24.00	18.24	30.00
5300MHz	Pass	3.90	14.54	14.54	24.00	18.44	30.00
5320MHz	Pass	3.90	14.51	14.51	24.00	18.41	30.00
5500MHz	Pass	4.00	14.99	14.99	24.00	18.99	30.00
5580MHz	Pass	4.00	15.59	15.59	24.00	19.59	30.00
5700MHz	Pass	4.00	14.92	14.92	24.00	18.92	30.00
5745MHz	Pass	4.00	15.06	15.06	30.00	19.06	36.00
5785MHz	Pass	4.00	15.22	15.22	30.00	19.22	36.00
5825MHz	Pass	4.00	15.04	15.04	30.00	19.04	36.00

DG = Directional Gain; Port X = Port X output power

Unwanted Emissions (Below 1GHz)

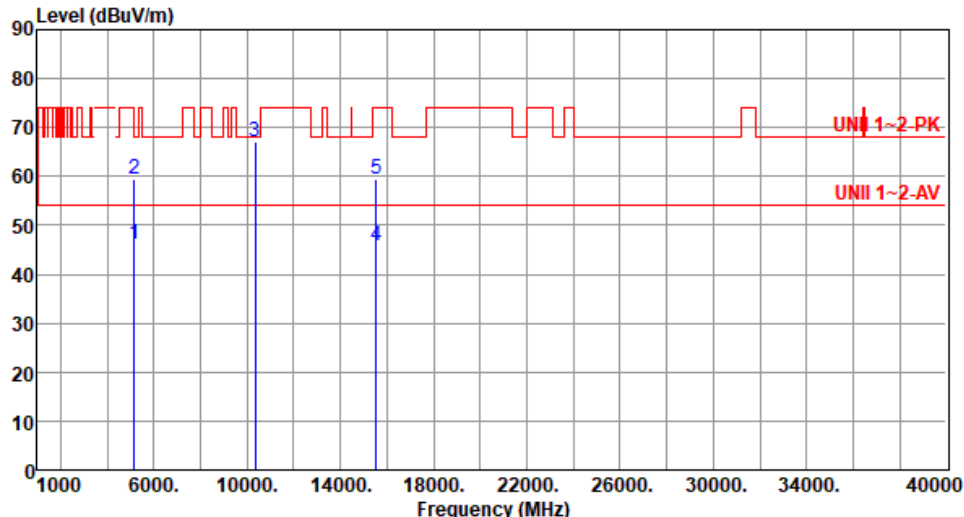
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBUV/m)			

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

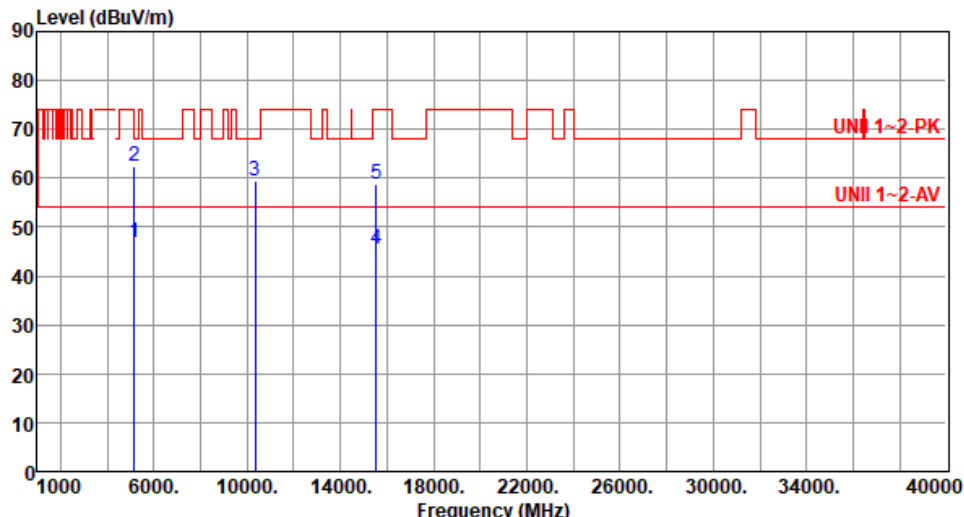
Modulation	11a	Test Freq. (MHz)	5785																																																																						
Polarization	Horizontal																																																																								
Test By :Brad Wu Temperature(°C):24 Humidity(%):63																																																																									
Level (dBUV/m)  <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>49.58</td><td>23.82</td><td>40.00</td><td>-16.18</td><td>32.67</td><td>-8.85</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>109.34</td><td>25.88</td><td>43.50</td><td>-17.62</td><td>37.85</td><td>-11.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>151.12</td><td>22.34</td><td>43.50</td><td>-21.16</td><td>30.95</td><td>-8.61</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>199.58</td><td>20.41</td><td>43.50</td><td>-23.09</td><td>32.22</td><td>-11.81</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>273.54</td><td>22.69</td><td>46.00</td><td>-23.31</td><td>31.56</td><td>-8.87</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>380.36</td><td>25.45</td><td>46.00</td><td>-20.55</td><td>31.51</td><td>-6.06</td><td>Peak</td><td>---</td><td>---</td></tr></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	49.58	23.82	40.00	-16.18	32.67	-8.85	Peak	---	---	2	109.34	25.88	43.50	-17.62	37.85	-11.97	Peak	---	---	3	151.12	22.34	43.50	-21.16	30.95	-8.61	Peak	---	---	4	199.58	20.41	43.50	-23.09	32.22	-11.81	Peak	---	---	5	273.54	22.69	46.00	-23.31	31.56	-8.87	Peak	---	---	6	380.36	25.45	46.00	-20.55	31.51	-6.06	Peak	---	---
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
1	49.58	23.82	40.00	-16.18	32.67	-8.85	Peak	---	---																																																																
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6	380.36	25.45	46.00	-20.55	31.51	-6.06	Peak	---	---																																																																

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBUV/m)			

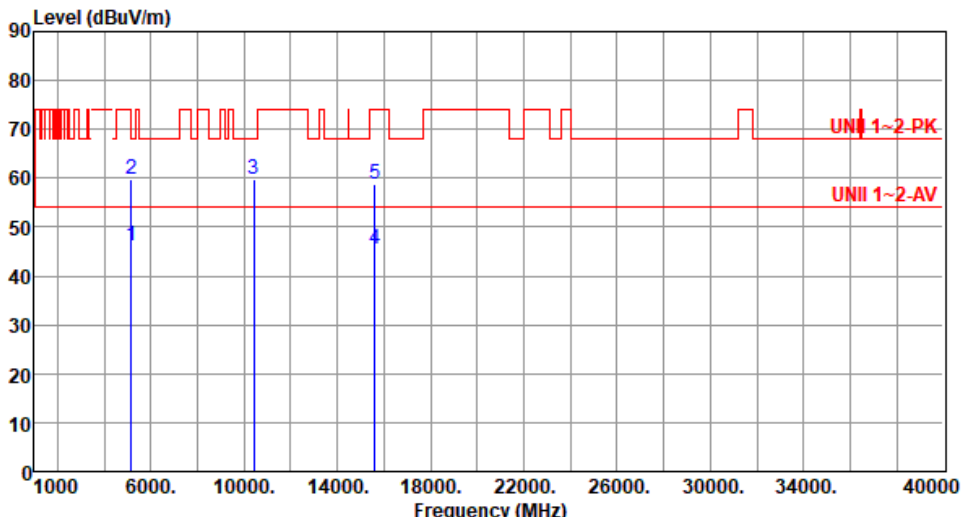
Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):23 Humidity(%):63									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.15	54.00	-7.85	39.84	6.31	Average	100	229
2	5150.00	59.42	74.00	-14.58	53.11	6.31	Peak	100	229
3	10360.00	67.13	68.20	-1.07	52.68	14.45	Peak	209	309
4	15540.00	45.76	54.00	-8.24	29.36	16.40	Average	100	22
5	15540.00	59.38	74.00	-14.62	42.98	16.40	Peak	100	22

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

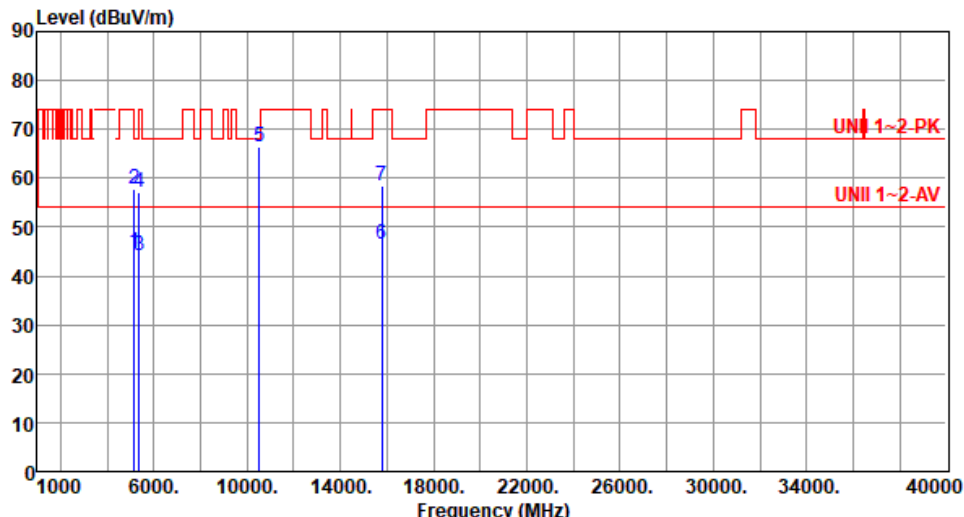
Modulation	11a	Test Freq. (MHz)	5180																																																																						
Polarization	Vertical																																																																								
Test By :Brad Wu Temperature(°C):23 Humidity(%):63																																																																									
Level (dBuV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><td>1</td><td>5150.00</td><td>46.96</td><td>54.00</td><td>-7.04</td><td>40.65</td><td>6.31</td><td>Average</td><td>129</td><td>333</td></tr><tr><td>2</td><td>5150.00</td><td>62.47</td><td>74.00</td><td>-11.53</td><td>56.16</td><td>6.31</td><td>Peak</td><td>129</td><td>333</td></tr><tr><td>3</td><td>10360.00</td><td>59.61</td><td>68.20</td><td>-8.59</td><td>45.16</td><td>14.45</td><td>Peak</td><td>100</td><td>38</td></tr><tr><td>4</td><td>15540.00</td><td>45.56</td><td>54.00</td><td>-8.44</td><td>29.16</td><td>16.40</td><td>Average</td><td>100</td><td>21</td></tr><tr><td>5</td><td>15540.00</td><td>58.69</td><td>74.00</td><td>-15.31</td><td>42.29</td><td>16.40</td><td>Peak</td><td>100</td><td>21</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table	1	5150.00	46.96	54.00	-7.04	40.65	6.31	Average	129	333	2	5150.00	62.47	74.00	-11.53	56.16	6.31	Peak	129	333	3	10360.00	59.61	68.20	-8.59	45.16	14.45	Peak	100	38	4	15540.00	45.56	54.00	-8.44	29.16	16.40	Average	100	21	5	15540.00	58.69	74.00	-15.31	42.29	16.40	Peak	100	21
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																
1	5150.00	46.96	54.00	-7.04	40.65	6.31	Average	129	333																																																																
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3	10360.00	59.61	68.20	-8.59	45.16	14.45	Peak	100	38																																																																
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																									

Modulation	11a	Test Freq. (MHz)	5200																																																												
Polarization	Horizontal																																																														
Test By :Brad Wu Temperature(°C):23 Humidity(%):63																																																															
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>45.96</td><td>54.00</td><td>-8.04</td><td>39.65</td><td>6.31</td><td>Average</td><td>100</td><td>201</td></tr><tr><td>2</td><td>5150.00</td><td>59.67</td><td>74.00</td><td>-14.33</td><td>53.36</td><td>6.31</td><td>Peak</td><td>100</td><td>201</td></tr><tr><td>3</td><td>10400.00</td><td>66.43</td><td>68.20</td><td>-1.77</td><td>51.95</td><td>14.48</td><td>Peak</td><td>210</td><td>311</td></tr><tr><td>4</td><td>15600.00</td><td>45.24</td><td>54.00</td><td>-8.76</td><td>29.30</td><td>15.94</td><td>Average</td><td>100</td><td>22</td></tr><tr><td>5</td><td>15600.00</td><td>58.48</td><td>74.00</td><td>-15.52</td><td>42.54</td><td>15.94</td><td>Peak</td><td>100</td><td>22</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	45.96	54.00	-8.04	39.65	6.31	Average	100	201	2	5150.00	59.67	74.00	-14.33	53.36	6.31	Peak	100	201	3	10400.00	66.43	68.20	-1.77	51.95	14.48	Peak	210	311	4	15600.00	45.24	54.00	-8.76	29.30	15.94	Average	100	22	5	15600.00	58.48	74.00	-15.52	42.54	15.94	Peak	100	22
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
1	5150.00	45.96	54.00	-8.04	39.65	6.31	Average	100	201																																																						
2	5150.00	59.67	74.00	-14.33	53.36	6.31	Peak	100	201																																																						
3	10400.00	66.43	68.20	-1.77	51.95	14.48	Peak	210	311																																																						
4	15600.00	45.24	54.00	-8.76	29.30	15.94	Average	100	22																																																						
5	15600.00	58.48	74.00	-15.52	42.54	15.94	Peak	100	22																																																						
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																															

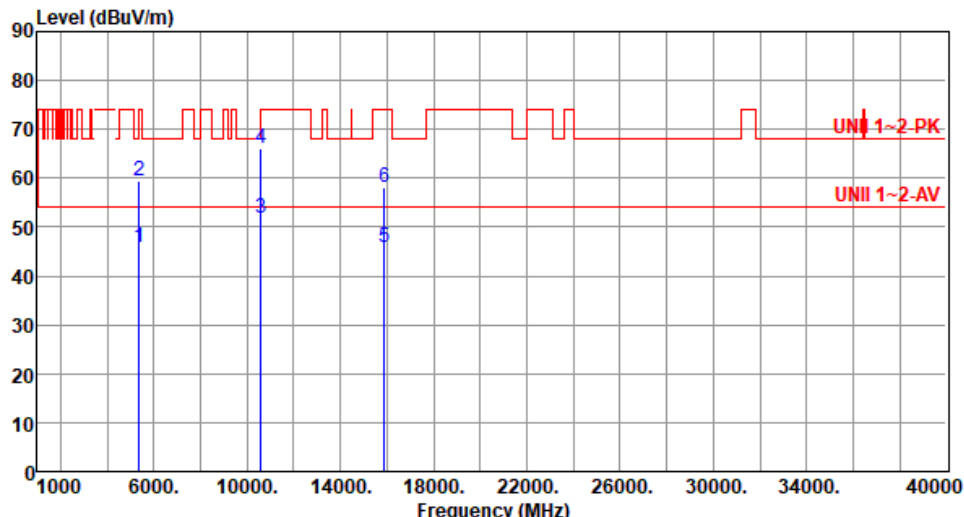
Modulation	11a	Test Freq. (MHz)	5200						
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):23 Humidity(%):63									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.09	54.00	-7.91	39.78	6.31	Average	132	346
2	5150.00	59.83	74.00	-14.17	53.52	6.31	Peak	132	346
3	10400.00	59.68	68.20	-8.52	45.20	14.48	Peak	100	28
4	15600.00	45.48	54.00	-8.52	29.54	15.94	Average	100	19
5	15600.00	58.69	74.00	-15.31	42.75	15.94	Peak	100	19
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).									

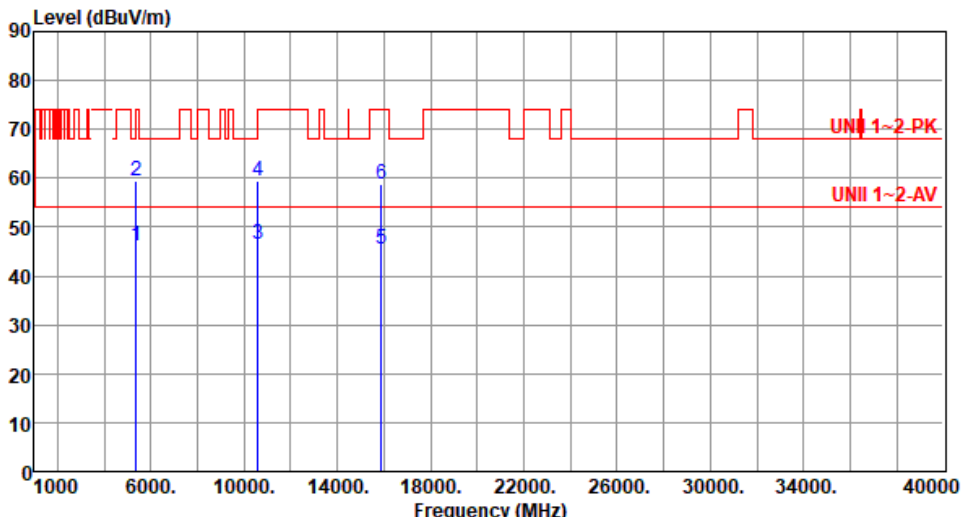
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5260																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Brad Wu Temperature(°C):23 Humidity(%):65																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>44.75</td><td>54.00</td><td>-9.25</td><td>38.44</td><td>6.31</td><td>Average</td><td>100</td><td>199</td></tr><tr><td>2</td><td>5150.00</td><td>57.64</td><td>74.00</td><td>-16.36</td><td>51.33</td><td>6.31</td><td>Peak</td><td>100</td><td>199</td></tr><tr><td>3</td><td>5350.00</td><td>44.13</td><td>54.00</td><td>-9.87</td><td>38.41</td><td>5.72</td><td>Average</td><td>100</td><td>199</td></tr><tr><td>4</td><td>5350.00</td><td>57.00</td><td>74.00</td><td>-17.00</td><td>51.28</td><td>5.72</td><td>Peak</td><td>100</td><td>199</td></tr><tr><td>5</td><td>10520.00</td><td>66.37</td><td>68.20</td><td>-1.83</td><td>51.70</td><td>14.67</td><td>Peak</td><td>221</td><td>308</td></tr><tr><td>6</td><td>15780.00</td><td>46.52</td><td>54.00</td><td>-7.48</td><td>30.66</td><td>15.86</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>7</td><td>15780.00</td><td>58.56</td><td>74.00</td><td>-15.44</td><td>42.70</td><td>15.86</td><td>Peak</td><td>100</td><td>30</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5150.00	44.75	54.00	-9.25	38.44	6.31	Average	100	199	2	5150.00	57.64	74.00	-16.36	51.33	6.31	Peak	100	199	3	5350.00	44.13	54.00	-9.87	38.41	5.72	Average	100	199	4	5350.00	57.00	74.00	-17.00	51.28	5.72	Peak	100	199	5	10520.00	66.37	68.20	-1.83	51.70	14.67	Peak	221	308	6	15780.00	46.52	54.00	-7.48	30.66	15.86	Average	100	30	7	15780.00	58.56	74.00	-15.44	42.70	15.86	Peak	100	30
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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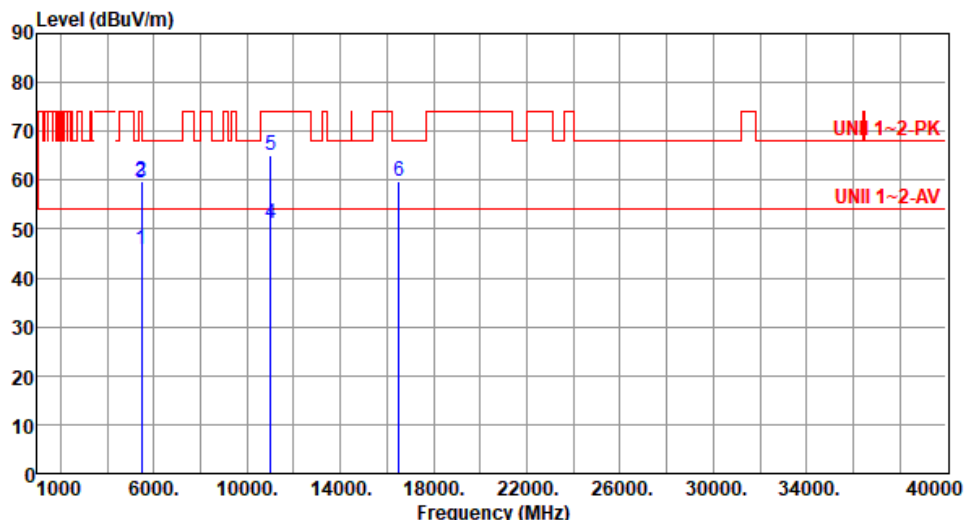
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):65			
Level (dBuV/m)			

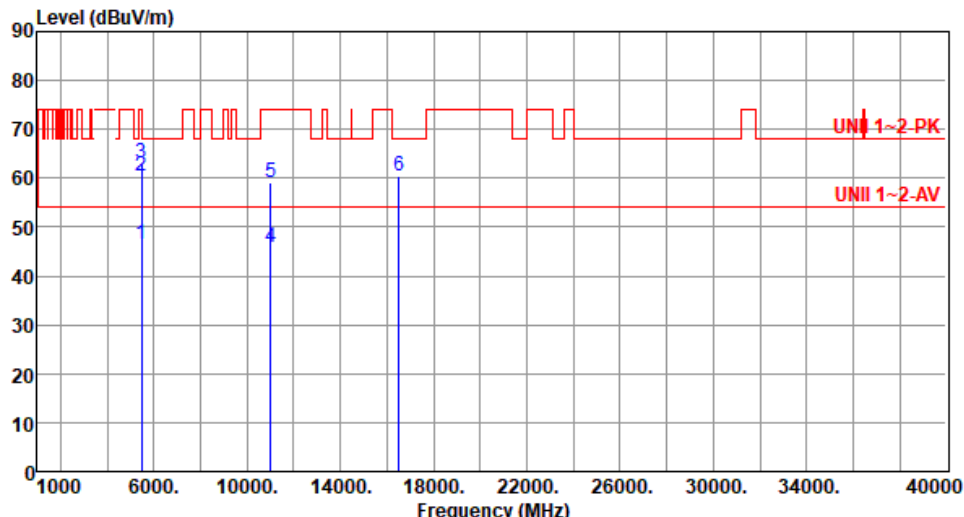
Modulation	11a	Test Freq. (MHz)	5300																																																																																										
Polarization	Horizontal																																																																																												
Test By :Brad Wu Temperature(°C):24 Humidity(%):64																																																																																													
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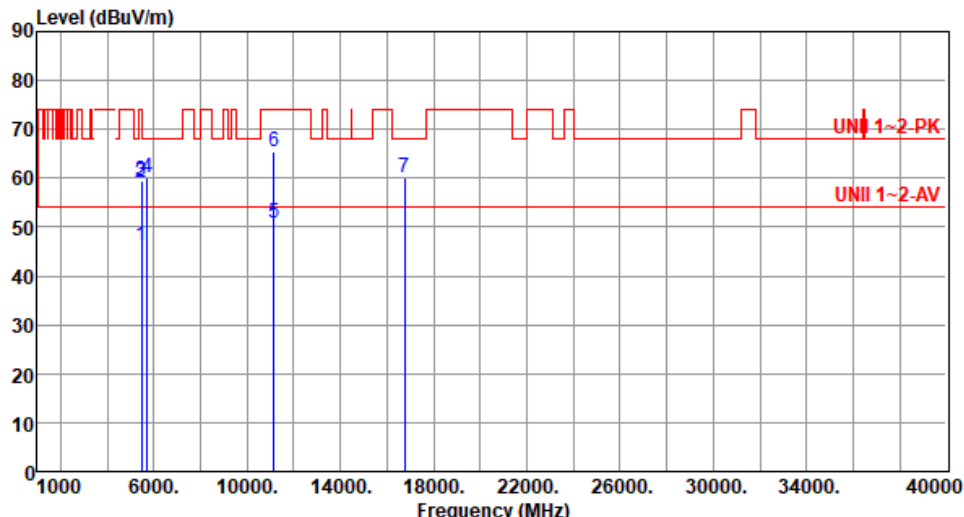
Modulation	11a	Test Freq. (MHz)	5300																																																																						
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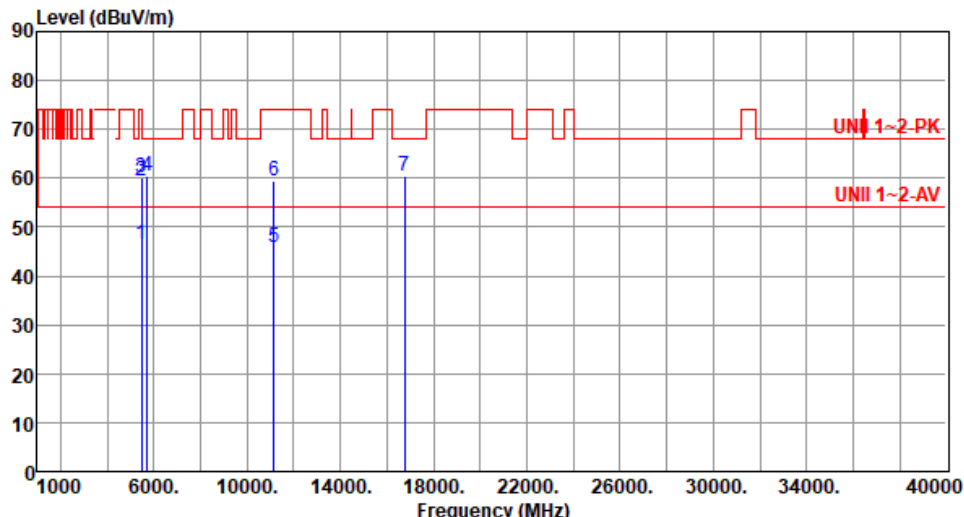
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Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):65			
Level (dBuV/m)			

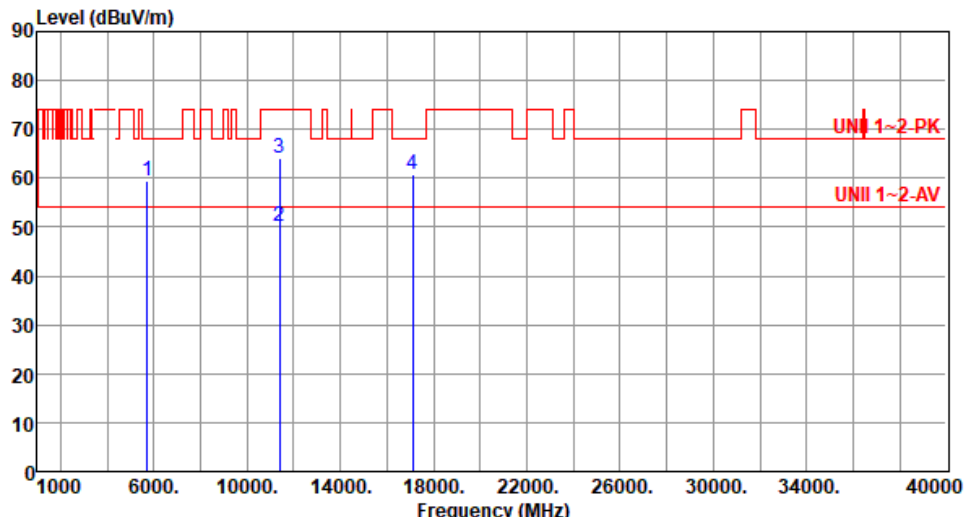
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Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):65			
Level (dBUV/m) <			

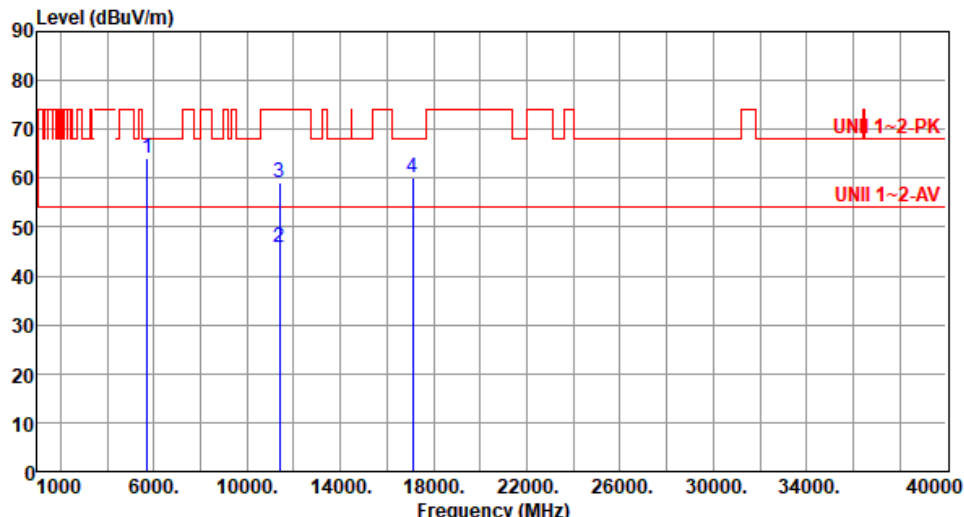
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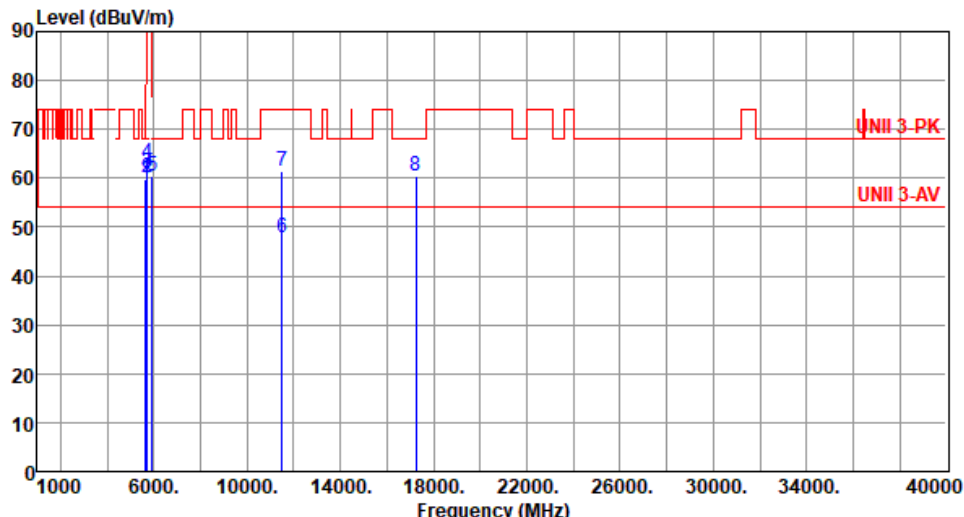
Modulation	11a	Test Freq. (MHz)	5500																																																																						
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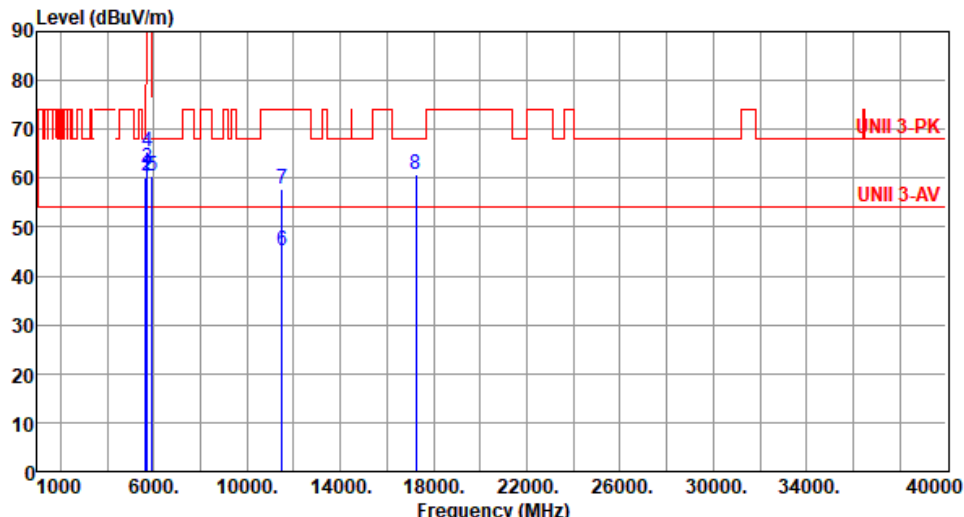
Modulation	11a	Test Freq. (MHz)	5580																																																																																
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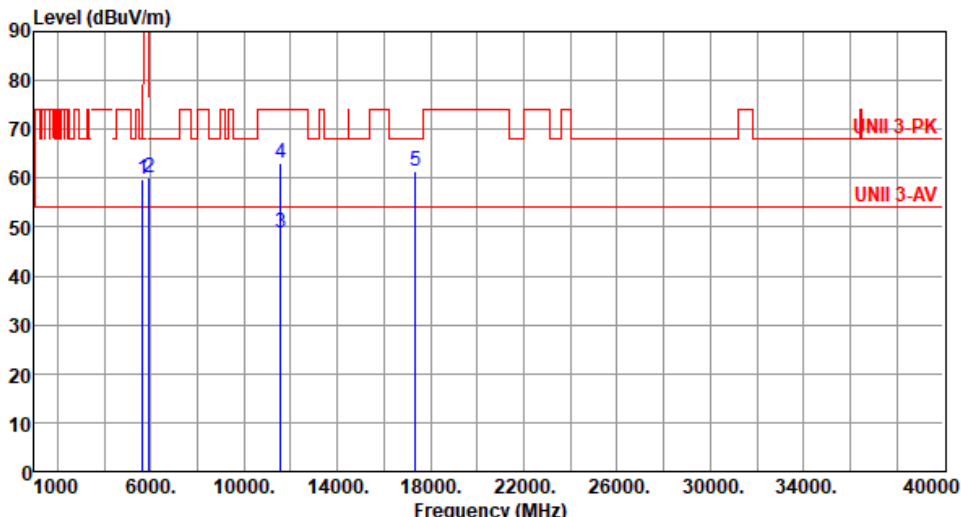
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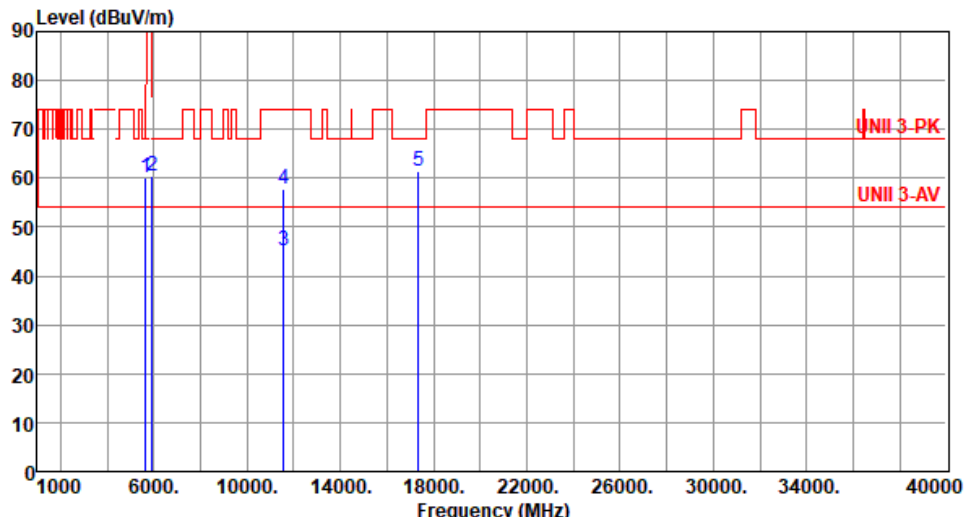
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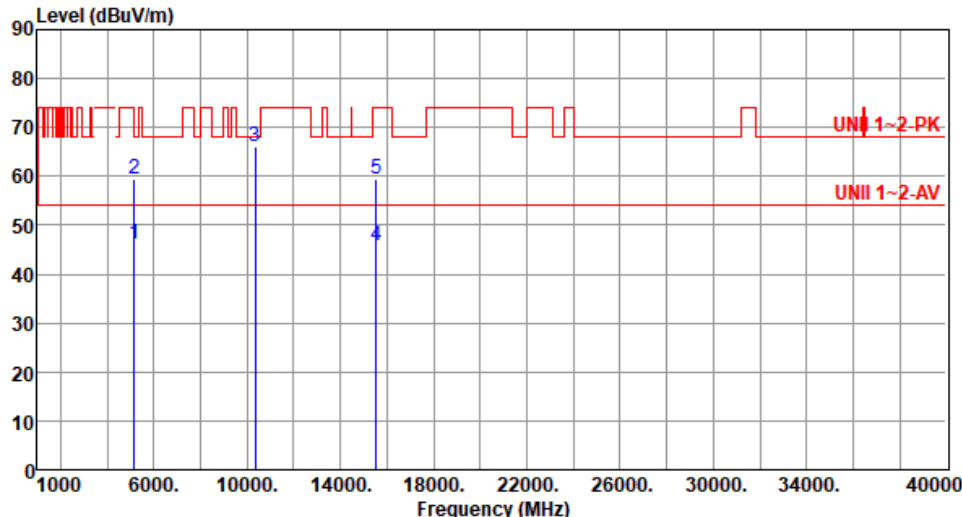
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1	5650.00	59.77	68.20	-8.43	53.45	6.32	Peak	100	9																																																						
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3	11570.00	48.95	54.00	-5.05	33.57	15.38	Average	195	316																																																						
4	11570.00	63.06	74.00	-10.94	47.68	15.38	Peak	195	316																																																						
5	17355.00	61.41	68.20	-6.79	42.43	18.98	Peak	100	7																																																						

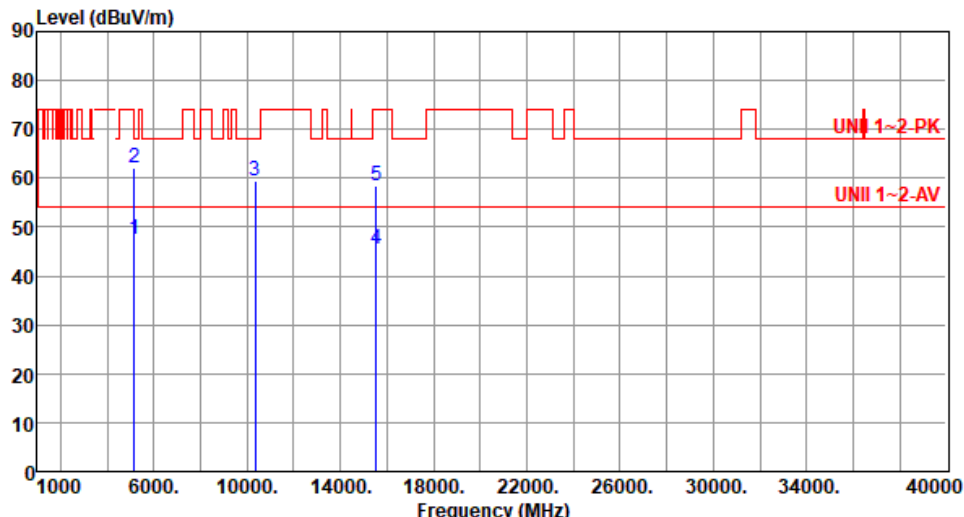
Modulation	11a	Test Freq. (MHz)	5785																																																												
Polarization	Vertical																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):63																																																															
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>60.19</td><td>68.20</td><td>-8.01</td><td>53.87</td><td>6.32</td><td>Peak</td><td>155</td><td>339</td></tr><tr><td>2</td><td>5925.00</td><td>60.48</td><td>68.20</td><td>-7.72</td><td>53.45</td><td>7.03</td><td>Peak</td><td>155</td><td>339</td></tr><tr><td>3</td><td>11570.00</td><td>45.27</td><td>54.00</td><td>-8.73</td><td>29.89</td><td>15.38</td><td>Average</td><td>100</td><td>16</td></tr><tr><td>4</td><td>11570.00</td><td>57.88</td><td>74.00</td><td>-16.12</td><td>42.50</td><td>15.38</td><td>Peak</td><td>100</td><td>16</td></tr><tr><td>5</td><td>17355.00</td><td>61.58</td><td>68.20</td><td>-6.62</td><td>42.60</td><td>18.98</td><td>Peak</td><td>100</td><td>11</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	60.19	68.20	-8.01	53.87	6.32	Peak	155	339	2	5925.00	60.48	68.20	-7.72	53.45	7.03	Peak	155	339	3	11570.00	45.27	54.00	-8.73	29.89	15.38	Average	100	16	4	11570.00	57.88	74.00	-16.12	42.50	15.38	Peak	100	16	5	17355.00	61.58	68.20	-6.62	42.60	18.98	Peak	100	11
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
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Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):63			
Level (dBUV/m)			

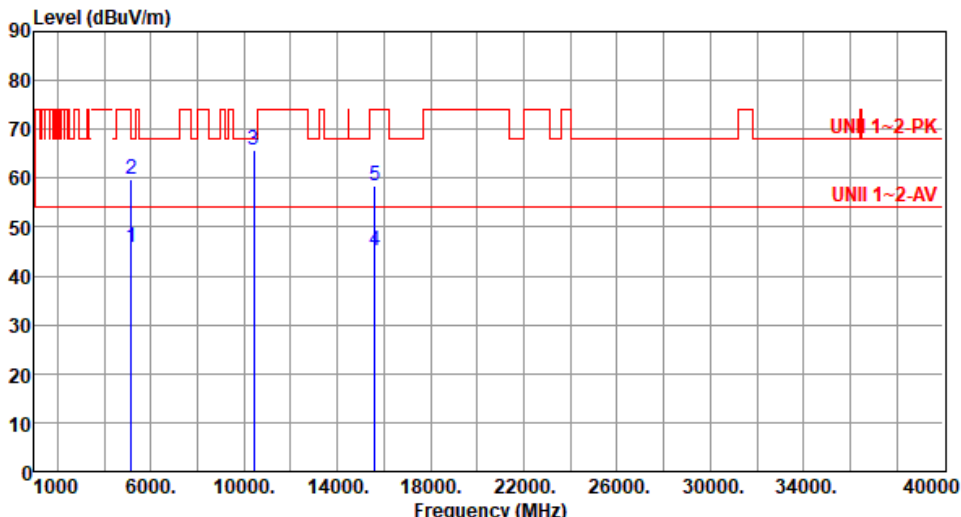
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):63			
Level (dBuV/m) <			

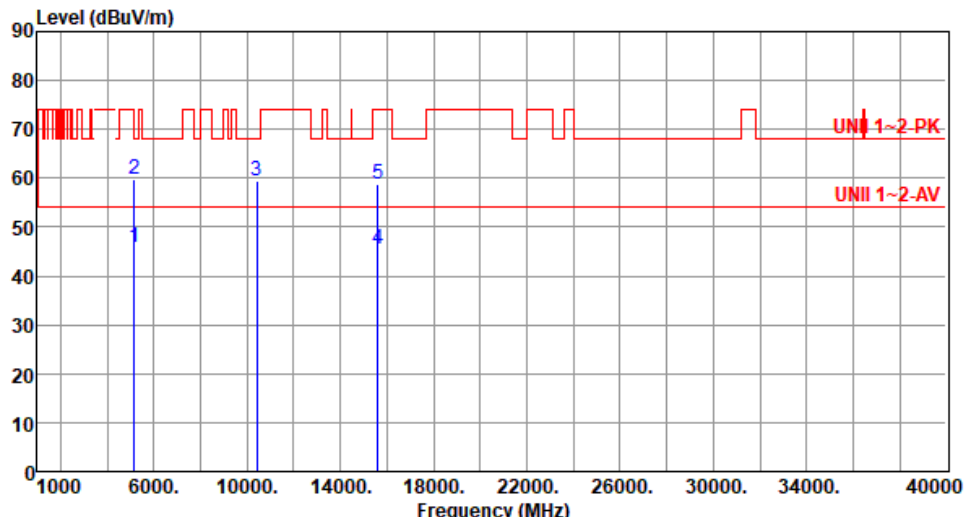
Unwanted Emissions (Above 1GHz) for HT20

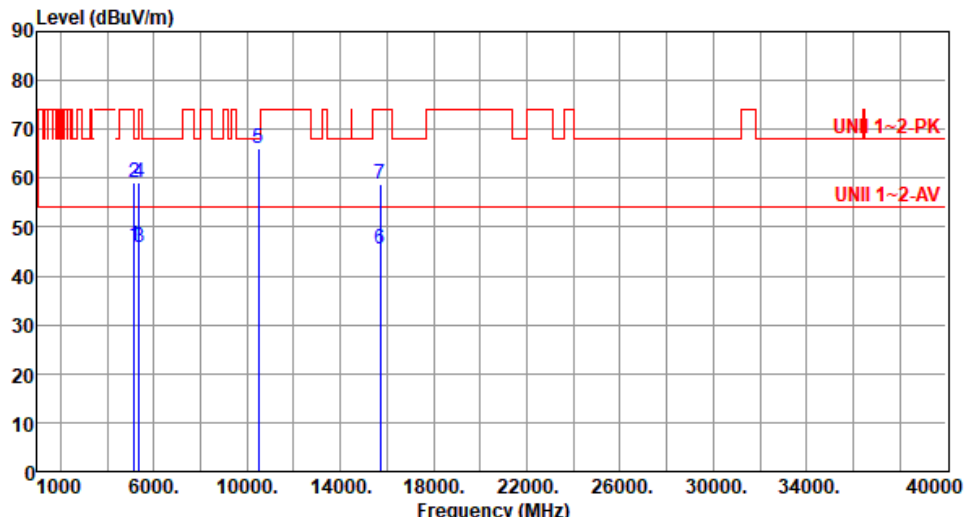
Modulation	HT20	Test Freq. (MHz)	5180																																																												
Polarization	Horizontal																																																														
Test By :Brad Wu Temperature(°C):23 Humidity(%):63																																																															
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>46.32</td><td>54.00</td><td>-7.68</td><td>40.01</td><td>6.31</td><td>Average</td><td>100</td><td>330</td></tr><tr><td>2</td><td>5150.00</td><td>59.48</td><td>74.00</td><td>-14.52</td><td>53.17</td><td>6.31</td><td>Peak</td><td>100</td><td>330</td></tr><tr><td>3</td><td>10360.00</td><td>66.14</td><td>68.20</td><td>-2.06</td><td>51.69</td><td>14.45</td><td>Peak</td><td>210</td><td>318</td></tr><tr><td>4</td><td>15540.00</td><td>45.69</td><td>54.00</td><td>-8.31</td><td>29.29</td><td>16.40</td><td>Average</td><td>100</td><td>25</td></tr><tr><td>5</td><td>15540.00</td><td>59.31</td><td>74.00</td><td>-14.69</td><td>42.91</td><td>16.40</td><td>Peak</td><td>100</td><td>25</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	46.32	54.00	-7.68	40.01	6.31	Average	100	330	2	5150.00	59.48	74.00	-14.52	53.17	6.31	Peak	100	330	3	10360.00	66.14	68.20	-2.06	51.69	14.45	Peak	210	318	4	15540.00	45.69	54.00	-8.31	29.29	16.40	Average	100	25	5	15540.00	59.31	74.00	-14.69	42.91	16.40	Peak	100	25
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																						
1	5150.00	46.32	54.00	-7.68	40.01	6.31	Average	100	330																																																						
2	5150.00	59.48	74.00	-14.52	53.17	6.31	Peak	100	330																																																						
3	10360.00	66.14	68.20	-2.06	51.69	14.45	Peak	210	318																																																						
4	15540.00	45.69	54.00	-8.31	29.29	16.40	Average	100	25																																																						
5	15540.00	59.31	74.00	-14.69	42.91	16.40	Peak	100	25																																																						

Modulation	HT20	Test Freq. (MHz)	5180						
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):23 Humidity(%):63									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.64	54.00	-6.36	41.33	6.31	Average	129	346
2	5150.00	62.07	74.00	-11.93	55.76	6.31	Peak	129	346
3	10360.00	59.54	68.20	-8.66	45.09	14.45	Peak	100	33
4	15540.00	45.49	54.00	-8.51	29.09	16.40	Average	100	25
5	15540.00	58.61	74.00	-15.39	42.21	16.40	Peak	100	25

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5200																																																																																
Polarization	Horizontal																																																																																		
Test By :Brad Wu Temperature(°C):23 Humidity(%):63																																																																																			
Level (dBuV/m)  <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>45.86</td><td>54.00</td><td>-8.14</td><td>39.55</td><td>6.31</td><td>Average</td><td>100</td><td>204</td></tr><tr><td>2</td><td>5150.00</td><td>59.62</td><td>74.00</td><td>-14.38</td><td>53.31</td><td>6.31</td><td>Peak</td><td>100</td><td>204</td></tr><tr><td>3</td><td>10400.00</td><td>65.66</td><td>68.20</td><td>-2.54</td><td>51.18</td><td>14.48</td><td>Peak</td><td>208</td><td>315</td></tr><tr><td>4</td><td>15600.00</td><td>45.16</td><td>54.00</td><td>-8.84</td><td>29.22</td><td>15.94</td><td>Average</td><td>100</td><td>33</td></tr><tr><td>5</td><td>15600.00</td><td>58.42</td><td>74.00</td><td>-15.58</td><td>42.48</td><td>15.94</td><td>Peak</td><td>100</td><td>33</td></tr></tbody></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table						dBuV			cm	deg	1	5150.00	45.86	54.00	-8.14	39.55	6.31	Average	100	204	2	5150.00	59.62	74.00	-14.38	53.31	6.31	Peak	100	204	3	10400.00	65.66	68.20	-2.54	51.18	14.48	Peak	208	315	4	15600.00	45.16	54.00	-8.84	29.22	15.94	Average	100	33	5	15600.00	58.42	74.00	-15.58	42.48	15.94	Peak	100	33
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
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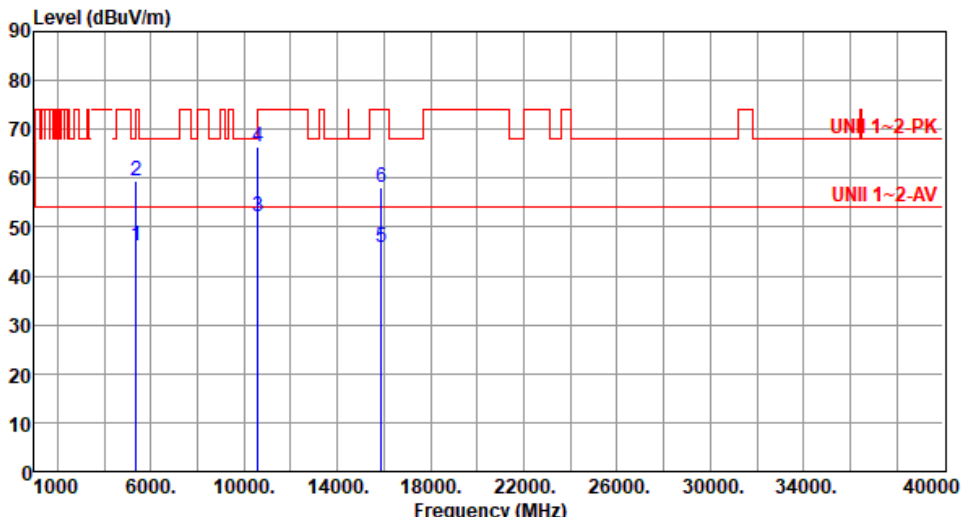
Modulation	HT20	Test Freq. (MHz)	5200																																																																						
Polarization	Vertical																																																																								
Test By :Brad Wu Temperature(°C):23 Humidity(%):63																																																																									
Level (dBuV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><td>1</td><td>5150.00</td><td>45.98</td><td>54.00</td><td>-8.02</td><td>39.67</td><td>6.31</td><td>Average</td><td>133</td><td>348</td></tr><tr><td>2</td><td>5150.00</td><td>59.76</td><td>74.00</td><td>-14.24</td><td>53.45</td><td>6.31</td><td>Peak</td><td>133</td><td>348</td></tr><tr><td>3</td><td>10400.00</td><td>59.54</td><td>68.20</td><td>-8.66</td><td>45.06</td><td>14.48</td><td>Peak</td><td>100</td><td>31</td></tr><tr><td>4</td><td>15600.00</td><td>45.39</td><td>54.00</td><td>-8.61</td><td>29.45</td><td>15.94</td><td>Average</td><td>100</td><td>24</td></tr><tr><td>5</td><td>15600.00</td><td>58.62</td><td>74.00</td><td>-15.38</td><td>42.68</td><td>15.94</td><td>Peak</td><td>100</td><td>24</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table	1	5150.00	45.98	54.00	-8.02	39.67	6.31	Average	133	348	2	5150.00	59.76	74.00	-14.24	53.45	6.31	Peak	133	348	3	10400.00	59.54	68.20	-8.66	45.06	14.48	Peak	100	31	4	15600.00	45.39	54.00	-8.61	29.45	15.94	Average	100	24	5	15600.00	58.62	74.00	-15.38	42.68	15.94	Peak	100	24
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																
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Modulation	HT20	Test Freq. (MHz)	5240																																																																																																				
Polarization	Horizontal																																																																																																						
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Test By :Brad Wu Temperature(°C):23 Humidity(%):63																																																																																																							
Level (dBuV/m) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>46.62</td><td>54.00</td><td>-7.38</td><td>40.31</td><td>6.31</td><td>Average</td><td>135</td><td>342</td></tr><tr><td>2</td><td>5150.00</td><td>59.31</td><td>74.00</td><td>-14.69</td><td>53.00</td><td>6.31</td><td>Peak</td><td>135</td><td>342</td></tr><tr><td>3</td><td>5350.00</td><td>46.16</td><td>54.00</td><td>-7.84</td><td>40.44</td><td>5.72</td><td>Average</td><td>135</td><td>342</td></tr><tr><td>4</td><td>5350.00</td><td>59.92</td><td>74.00</td><td>-14.08</td><td>54.20</td><td>5.72</td><td>Peak</td><td>135</td><td>342</td></tr><tr><td>5</td><td>10480.00</td><td>59.43</td><td>68.20</td><td>-8.77</td><td>44.80</td><td>14.63</td><td>Peak</td><td>100</td><td>41</td></tr><tr><td>6</td><td>15720.00</td><td>45.44</td><td>54.00</td><td>-8.56</td><td>29.49</td><td>15.95</td><td>Average</td><td>100</td><td>23</td></tr><tr><td>7</td><td>15720.00</td><td>58.55</td><td>74.00</td><td>-15.45</td><td>42.60</td><td>15.95</td><td>Peak</td><td>100</td><td>23</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	5150.00	46.62	54.00	-7.38	40.31	6.31	Average	135	342	2	5150.00	59.31	74.00	-14.69	53.00	6.31	Peak	135	342	3	5350.00	46.16	54.00	-7.84	40.44	5.72	Average	135	342	4	5350.00	59.92	74.00	-14.08	54.20	5.72	Peak	135	342	5	10480.00	59.43	68.20	-8.77	44.80	14.63	Peak	100	41	6	15720.00	45.44	54.00	-8.56	29.49	15.95	Average	100	23	7	15720.00	58.55	74.00	-15.45	42.60	15.95	Peak	100	23
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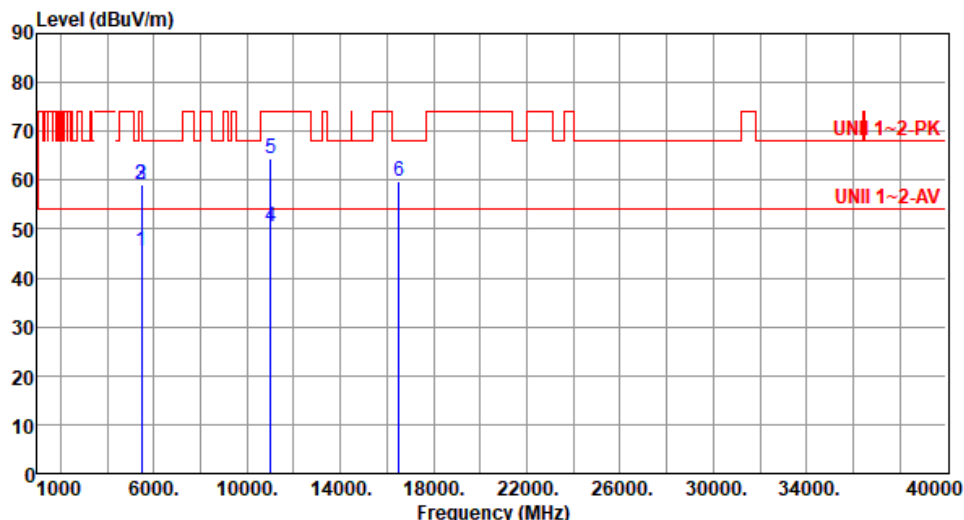
Modulation	HT20	Test Freq. (MHz)	5260																																																																																
Polarization	Vertical																																																																																		
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Modulation	HT20	Test Freq. (MHz)	5300																																																																																
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Test By :Akun Chung Temperature(°C):24 Humidity(%):64																																																																																			
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Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) </			

Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):65			
Level (dBuV/m) </			

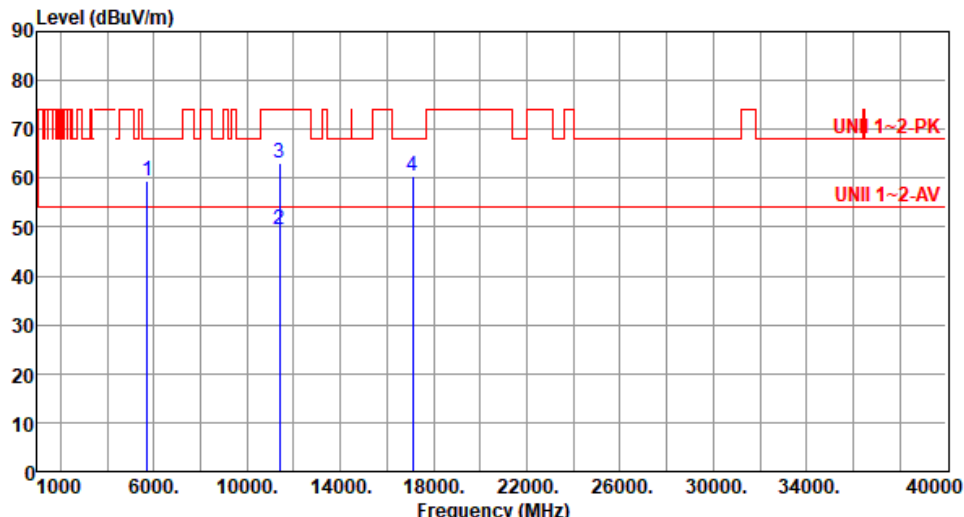
Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):65			
Level (dBUV/m) </			

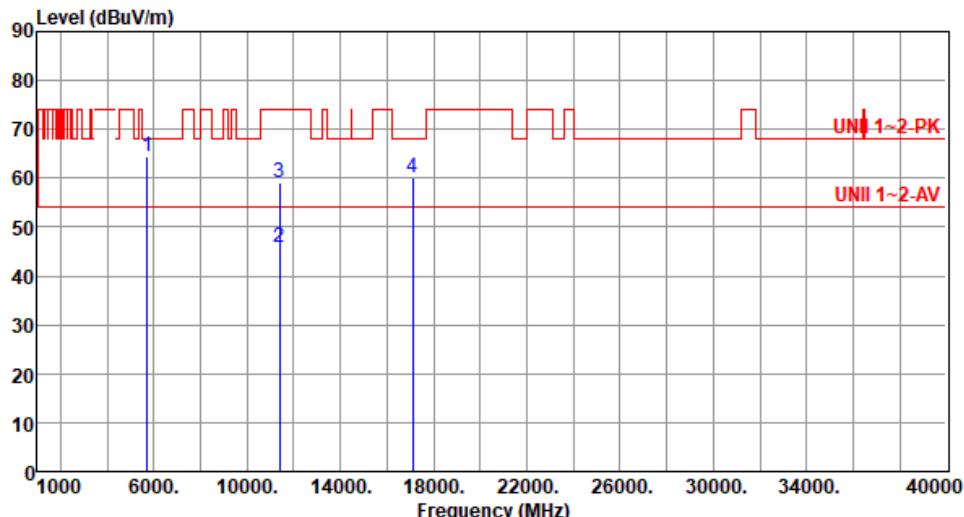
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Polarization	Horizontal																																																																								
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Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):63			
Level (dBuV/m)			

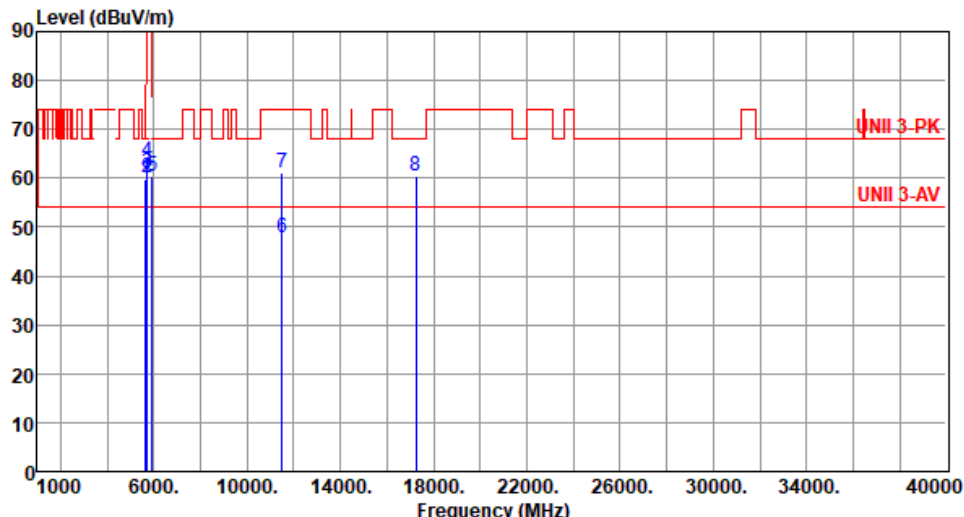
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Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):63			
Level (dBuV/m)			

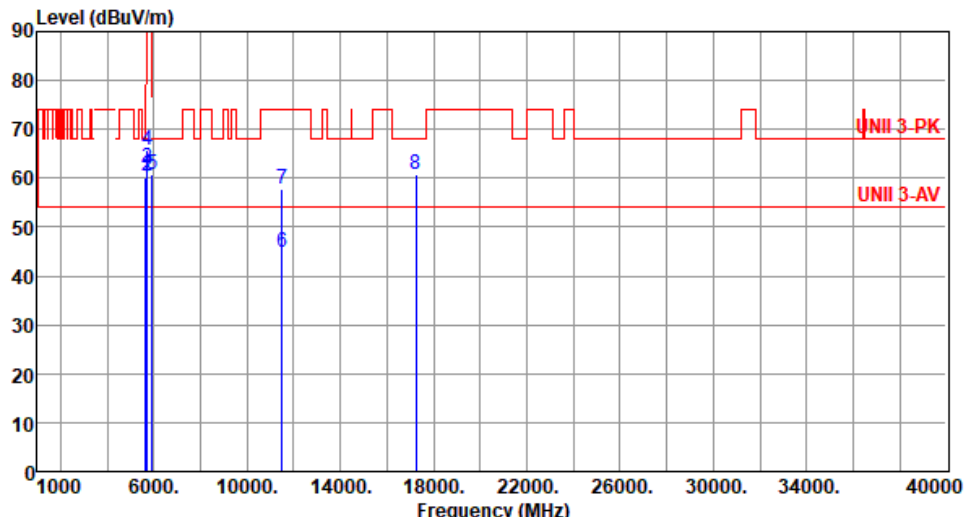
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Level (dBuV/m) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5460.00</td><td>46.35</td><td>54.00</td><td>-7.65</td><td>40.05</td><td>6.30</td><td>Average</td><td>121</td><td>324</td></tr><tr><td>2</td><td>5460.00</td><td>59.41</td><td>74.00</td><td>-14.59</td><td>53.11</td><td>6.30</td><td>Peak</td><td>121</td><td>324</td></tr><tr><td>3</td><td>5470.00</td><td>59.88</td><td>68.20</td><td>-8.32</td><td>53.56</td><td>6.32</td><td>Peak</td><td>121</td><td>324</td></tr><tr><td>4</td><td>5725.00</td><td>60.36</td><td>68.20</td><td>-7.84</td><td>53.77</td><td>6.59</td><td>Peak</td><td>121</td><td>324</td></tr><tr><td>5</td><td>11160.00</td><td>45.71</td><td>54.00</td><td>-8.29</td><td>30.56</td><td>15.15</td><td>Average</td><td>100</td><td>34</td></tr><tr><td>6</td><td>11160.00</td><td>59.02</td><td>74.00</td><td>-14.98</td><td>43.87</td><td>15.15</td><td>Peak</td><td>100</td><td>34</td></tr><tr><td>7</td><td>16740.00</td><td>60.29</td><td>68.20</td><td>-7.91</td><td>42.59</td><td>17.70</td><td>Peak</td><td>102</td><td>14</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	5460.00	46.35	54.00	-7.65	40.05	6.30	Average	121	324	2	5460.00	59.41	74.00	-14.59	53.11	6.30	Peak	121	324	3	5470.00	59.88	68.20	-8.32	53.56	6.32	Peak	121	324	4	5725.00	60.36	68.20	-7.84	53.77	6.59	Peak	121	324	5	11160.00	45.71	54.00	-8.29	30.56	15.15	Average	100	34	6	11160.00	59.02	74.00	-14.98	43.87	15.15	Peak	100	34	7	16740.00	60.29	68.20	-7.91	42.59	17.70	Peak	102	14
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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Modulation	HT20	Test Freq. (MHz)	5700																																																		
Polarization	Horizontal																																																				
Test By :Brad Wu Temperature(°C):23 Humidity(%):63																																																					
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5725.00</td><td>59.29</td><td>68.20</td><td>-8.91</td><td>52.70</td><td>6.59</td><td>Peak</td><td>101</td><td>355</td></tr><tr><td>2</td><td>11400.00</td><td>49.42</td><td>54.00</td><td>-4.58</td><td>34.27</td><td>15.15</td><td>Average</td><td>201</td><td>316</td></tr><tr><td>3</td><td>11400.00</td><td>63.15</td><td>74.00</td><td>-10.85</td><td>48.00</td><td>15.15</td><td>Peak</td><td>201</td><td>316</td></tr><tr><td>4</td><td>17100.00</td><td>60.54</td><td>68.20</td><td>-7.66</td><td>42.39</td><td>18.15</td><td>Peak</td><td>100</td><td>38</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5725.00	59.29	68.20	-8.91	52.70	6.59	Peak	101	355	2	11400.00	49.42	54.00	-4.58	34.27	15.15	Average	201	316	3	11400.00	63.15	74.00	-10.85	48.00	15.15	Peak	201	316	4	17100.00	60.54	68.20	-7.66	42.39	18.15	Peak	100	38
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																												
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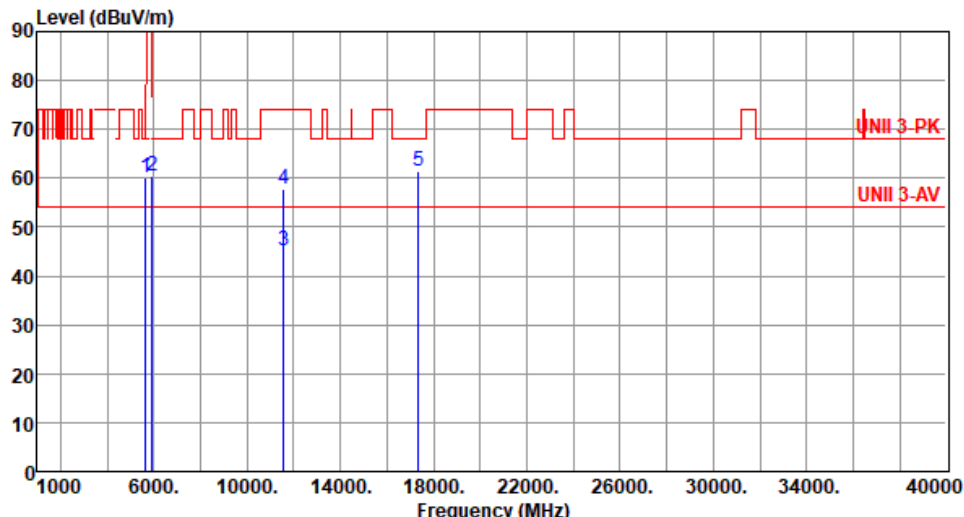
Modulation	HT20	Test Freq. (MHz)	5700						
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):23 Humidity(%):63									
Level (dBUV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	64.48	68.20	-3.72	57.89	6.59	Peak	120	339
2	11400.00	45.76	54.00	-8.24	30.61	15.15	Average	100	22
3	11400.00	59.12	74.00	-14.88	43.97	15.15	Peak	100	22
4	17100.00	60.21	68.20	-7.99	42.06	18.15	Peak	100	35

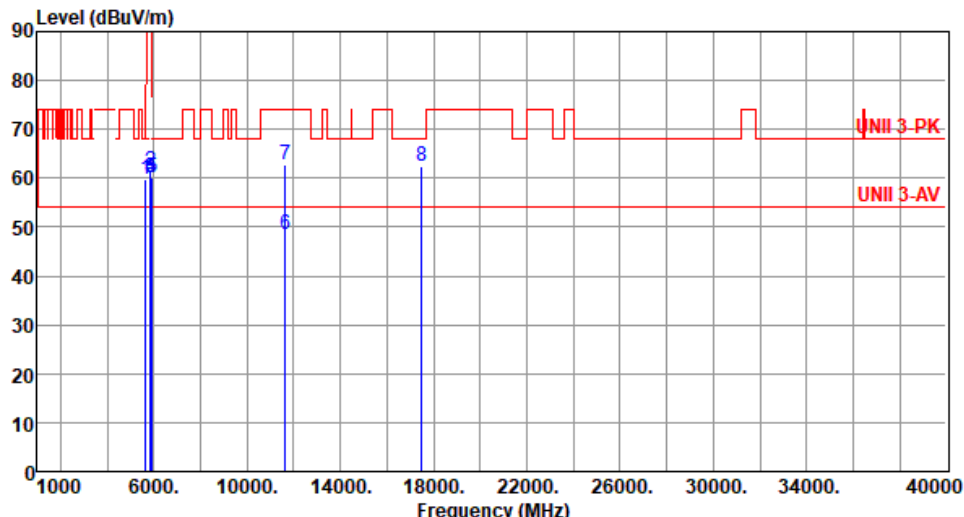
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

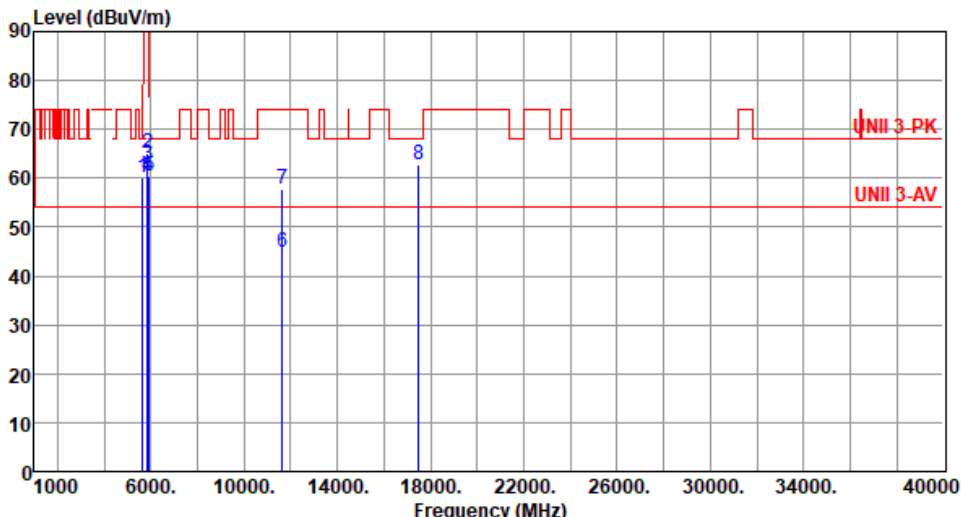
Modulation	HT20	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
Test By :Roger Lu Temperature(°C):23 Humidity(%):63																																																																																													
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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2	5700.00	60.17	105.20	-45.03	53.64	6.53	Peak	106	11																																																																																				
3	5720.00	61.26	110.80	-49.54	54.68	6.58	Peak	106	11																																																																																				
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Modulation	HT20	Test Freq. (MHz)	5745																																																																																										
Polarization	Vertical																																																																																												
Test By :Roger Lu Temperature(°C):23 Humidity(%):63																																																																																													
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):63			
Level (dBuV/m) <			

Modulation	HT20	Test Freq. (MHz)	5785																																																												
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Polarization	Horizontal																																																																																												
Test By :Roger Lu Temperature(°C):23 Humidity(%):63																																																																																													
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>59.80</td><td>68.20</td><td>-8.40</td><td>53.48</td><td>6.32</td><td>Peak</td><td>100</td><td>5</td></tr><tr><td>2</td><td>5850.00</td><td>61.36</td><td>122.20</td><td>-60.84</td><td>54.59</td><td>6.77</td><td>Peak</td><td>100</td><td>5</td></tr><tr><td>3</td><td>5855.00</td><td>60.25</td><td>110.80</td><td>-50.55</td><td>53.45</td><td>6.80</td><td>Peak</td><td>100</td><td>5</td></tr><tr><td>4</td><td>5875.00</td><td>60.19</td><td>105.20</td><td>-45.01</td><td>53.31</td><td>6.88</td><td>Peak</td><td>100</td><td>5</td></tr><tr><td>5</td><td>5925.00</td><td>60.22</td><td>68.20</td><td>-7.98</td><td>53.19</td><td>7.03</td><td>Peak</td><td>100</td><td>5</td></tr><tr><td>6</td><td>11650.00</td><td>48.38</td><td>54.00</td><td>-5.62</td><td>33.21</td><td>15.17</td><td>Average</td><td>195</td><td>312</td></tr><tr><td>7</td><td>11650.00</td><td>62.73</td><td>74.00</td><td>-11.27</td><td>47.56</td><td>15.17</td><td>Peak</td><td>197</td><td>312</td></tr><tr><td>8</td><td>17475.00</td><td>62.28</td><td>68.20</td><td>-5.92</td><td>42.47</td><td>19.81</td><td>Peak</td><td>100</td><td>8</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	59.80	68.20	-8.40	53.48	6.32	Peak	100	5	2	5850.00	61.36	122.20	-60.84	54.59	6.77	Peak	100	5	3	5855.00	60.25	110.80	-50.55	53.45	6.80	Peak	100	5	4	5875.00	60.19	105.20	-45.01	53.31	6.88	Peak	100	5	5	5925.00	60.22	68.20	-7.98	53.19	7.03	Peak	100	5	6	11650.00	48.38	54.00	-5.62	33.21	15.17	Average	195	312	7	11650.00	62.73	74.00	-11.27	47.56	15.17	Peak	197	312	8	17475.00	62.28	68.20	-5.92	42.47	19.81	Peak	100	8
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
1	5650.00	59.80	68.20	-8.40	53.48	6.32	Peak	100	5																																																																																				
2	5850.00	61.36	122.20	-60.84	54.59	6.77	Peak	100	5																																																																																				
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7	11650.00	62.73	74.00	-11.27	47.56	15.17	Peak	197	312																																																																																				
8	17475.00	62.28	68.20	-5.92	42.47	19.81	Peak	100	8																																																																																				

Modulation	HT20	Test Freq. (MHz)	5825						
Polarization	Vertical								
Test By :Roger Lu Temperature(°C):23 Humidity(%):63									
Level (dBUV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.21	68.20	-7.99	53.89	6.32	Peak	155	336
2	5850.00	64.99	122.20	-57.21	58.22	6.77	Peak	155	336
3	5855.00	62.82	110.80	-47.98	56.02	6.80	Peak	155	336
4	5875.00	60.34	105.20	-44.86	53.46	6.88	Peak	155	336
5	5925.00	60.48	68.20	-7.72	53.45	7.03	Peak	155	336
6	11650.00	44.95	54.00	-9.05	29.78	15.17	Average	100	13
7	11650.00	57.73	74.00	-16.27	42.56	15.17	Peak	100	13
8	17475.00	62.67	68.20	-5.53	42.86	19.81	Peak	100	5

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	5.97	6.03	5.29	6.07
T20°CVmin	5.25	5.84	5.40	6.07
T70°CVnom	16.63	16.49	16.76	17.24
T60°CVnom	17.04	16.45	16.20	16.94
T50°CVnom	12.62	12.82	12.90	12.41
T40°CVnom	10.74	10.64	10.64	10.58
T30°CVnom	7.82	8.05	8.50	8.60
T20°CVnom	5.56	5.75	5.19	4.96
T10°CVnom	10.58	10.97	10.33	10.24
T0°CVnom	12.90	13.02	13.68	13.02
T-10°CVnom	15.01	14.29	14.92	14.27
T-20°CVnom	16.42	16.03	16.41	16.03
T-30°CVnom	16.44	17.19	16.94	16.64
Vnom [V]: 3.3	Vmax [V]: 3.6		Vmin [V]: 3	
Tnom [°C]: 20	Tmax [°C]: 70		Tmin [°C]: -30	

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	6.11	5.16	5.80	5.40
T20°CVmin	6.15	5.53	5.23	5.40
T70°CVnom	15.81	15.50	15.09	15.91
T60°CVnom	16.18	16.71	15.75	16.13
T50°CVnom	11.65	12.31	11.84	12.03
T40°CVnom	10.37	10.18	10.61	10.24
T30°CVnom	6.79	6.62	6.61	7.15
T20°CVnom	5.06	5.76	5.24	5.43
T10°CVnom	10.11	10.10	10.43	10.36
T0°CVnom	12.81	12.35	12.46	12.17
T-10°CVnom	14.12	13.81	13.72	14.36
T-20°CVnom	15.80	15.30	15.69	16.06
T-30°CVnom	15.14	15.69	15.31	15.27
Vnom [V]: 3.3	Vmax [V]: 3.6		Vmin [V]: 3	
Tnom [°C]: 20	Tmax [°C]: 70		Tmin [°C]: -30	

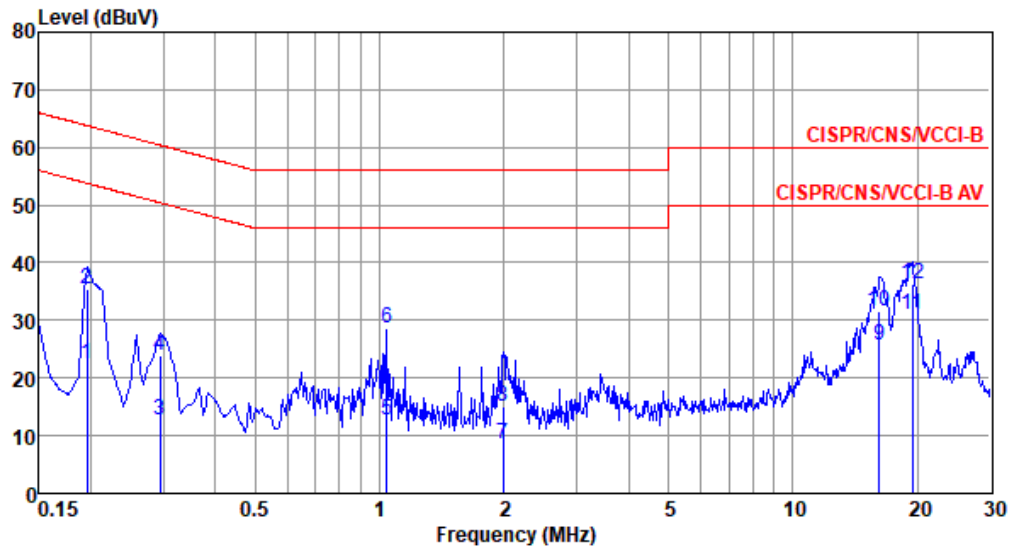


Modulation Mod	11a	Test Freq. (MHz)	5580
Power Phase	Line		

Test by : Joe Liao

Temperature: 20°C

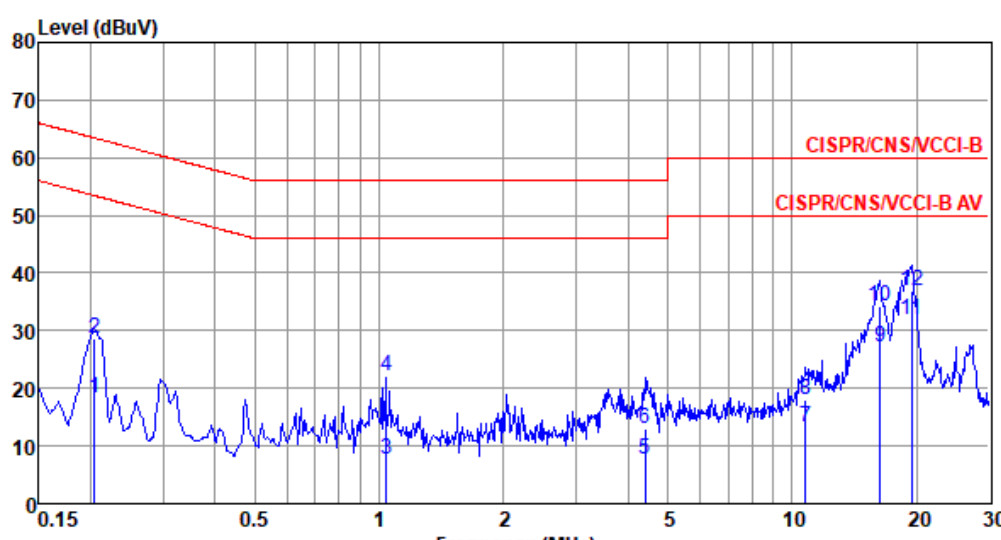
Humidity: 60%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.195	22.31	53.80	-31.49	12.62	9.61	0.08	0.00	Average
2	0.195	35.46	63.80	-28.34	25.77	9.61	0.08	0.00	QP
3	0.294	12.79	50.41	-37.62	3.11	9.60	0.08	0.00	Average
4	0.294	23.98	60.41	-36.43	14.30	9.60	0.08	0.00	QP
5	1.040	12.56	46.00	-33.44	2.79	9.61	0.16	0.00	Average
6	1.040	28.61	56.00	-27.39	18.84	9.61	0.16	0.00	QP
7	1.991	8.66	46.00	-37.34	-1.16	9.62	0.20	0.00	Average
8	1.991	15.05	56.00	-40.95	5.23	9.62	0.20	0.00	QP
9	16.226	25.62	50.00	-24.38	15.42	9.61	0.59	0.00	Average
10	16.226	31.51	60.00	-28.49	21.31	9.61	0.59	0.00	QP
11*	19.428	30.89	50.00	-19.11	20.65	9.59	0.65	0.00	Average
12	19.428	36.19	60.00	-23.81	25.95	9.59	0.65	0.00	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).

Modulation Mod	11a	Test Freq. (MHz)	5580																																																																																																																																												
Power Phase	Neutral																																																																																																																																														
Test by : Joe Liao Temperature: 20°C Humidity: 60%																																																																																																																																															
 <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>0.204</td><td>18.33</td><td>53.45</td><td>-35.12</td><td>8.66</td><td>9.59</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>2</td><td>0.204</td><td>28.66</td><td>63.45</td><td>-34.79</td><td>18.99</td><td>9.59</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>3</td><td>1.040</td><td>7.62</td><td>46.00</td><td>-38.38</td><td>-2.13</td><td>9.59</td><td>0.16</td><td>0.00</td><td>Average</td></tr><tr><td>4</td><td>1.040</td><td>22.00</td><td>56.00</td><td>-34.00</td><td>12.25</td><td>9.59</td><td>0.16</td><td>0.00</td><td>QP</td></tr><tr><td>5</td><td>4.407</td><td>7.54</td><td>46.00</td><td>-38.46</td><td>-2.31</td><td>9.61</td><td>0.24</td><td>0.00</td><td>Average</td></tr><tr><td>6</td><td>4.407</td><td>13.12</td><td>56.00</td><td>-42.88</td><td>3.27</td><td>9.61</td><td>0.24</td><td>0.00</td><td>QP</td></tr><tr><td>7</td><td>10.790</td><td>13.21</td><td>50.00</td><td>-36.79</td><td>3.09</td><td>9.65</td><td>0.47</td><td>0.00</td><td>Average</td></tr><tr><td>8</td><td>10.790</td><td>18.13</td><td>60.00</td><td>-41.87</td><td>8.01</td><td>9.65</td><td>0.47</td><td>0.00</td><td>QP</td></tr><tr><td>9</td><td>16.312</td><td>27.29</td><td>50.00</td><td>-22.71</td><td>17.03</td><td>9.67</td><td>0.59</td><td>0.00</td><td>Average</td></tr><tr><td>10</td><td>16.312</td><td>34.22</td><td>60.00</td><td>-25.78</td><td>23.96</td><td>9.67</td><td>0.59</td><td>0.00</td><td>QP</td></tr><tr><td>11*</td><td>19.428</td><td>31.82</td><td>50.00</td><td>-18.18</td><td>21.49</td><td>9.68</td><td>0.65</td><td>0.00</td><td>Average</td></tr><tr><td>12</td><td>19.428</td><td>36.99</td><td>60.00</td><td>-23.01</td><td>26.66</td><td>9.68</td><td>0.65</td><td>0.00</td><td>QP</td></tr></table>					Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark		MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB		1	0.204	18.33	53.45	-35.12	8.66	9.59	0.08	0.00	Average	2	0.204	28.66	63.45	-34.79	18.99	9.59	0.08	0.00	QP	3	1.040	7.62	46.00	-38.38	-2.13	9.59	0.16	0.00	Average	4	1.040	22.00	56.00	-34.00	12.25	9.59	0.16	0.00	QP	5	4.407	7.54	46.00	-38.46	-2.31	9.61	0.24	0.00	Average	6	4.407	13.12	56.00	-42.88	3.27	9.61	0.24	0.00	QP	7	10.790	13.21	50.00	-36.79	3.09	9.65	0.47	0.00	Average	8	10.790	18.13	60.00	-41.87	8.01	9.65	0.47	0.00	QP	9	16.312	27.29	50.00	-22.71	17.03	9.67	0.59	0.00	Average	10	16.312	34.22	60.00	-25.78	23.96	9.67	0.59	0.00	QP	11*	19.428	31.82	50.00	-18.18	21.49	9.68	0.65	0.00	Average	12	19.428	36.99	60.00	-23.01	26.66	9.68	0.65	0.00	QP
	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark																																																																																																																																						
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Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).																																																																																																																																															

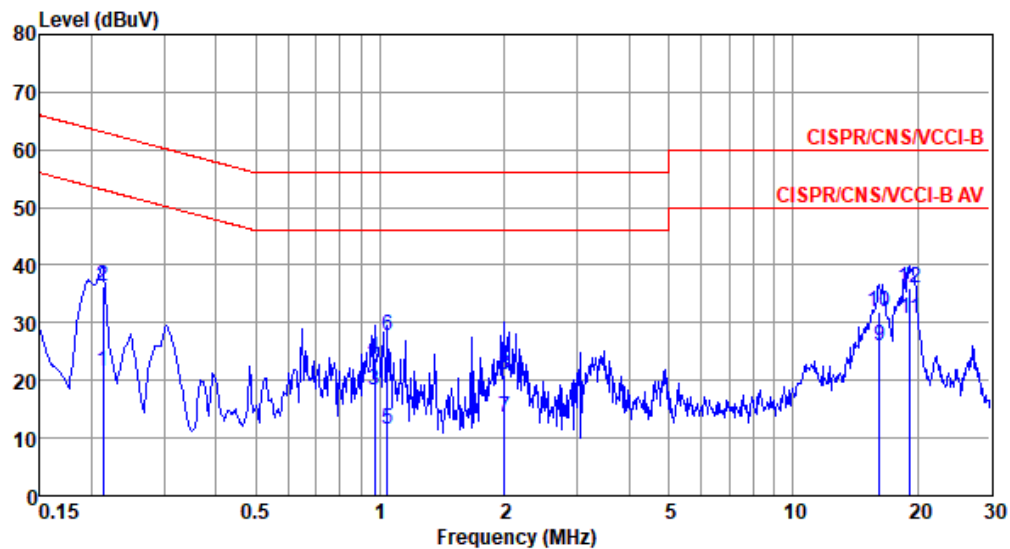


Modulation Mod	11a	Test Freq. (MHz)	5785
Power Phase	Line		

Test by : Joe Liao

Temperature: 20°C

Humidity: 60%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.213	21.66	53.10	-31.44	11.97	9.61	0.08	0.00	Average
2	0.213	36.22	63.10	-26.88	26.53	9.61	0.08	0.00	QP
3	0.968	18.32	46.00	-27.68	8.55	9.61	0.16	0.00	Average
4	0.968	23.82	56.00	-32.18	14.05	9.61	0.16	0.00	QP
5	1.040	11.41	46.00	-34.59	1.64	9.61	0.16	0.00	Average
6	1.040	27.68	56.00	-28.32	17.91	9.61	0.16	0.00	QP
7	2.001	13.66	46.00	-32.34	3.84	9.62	0.20	0.00	Average
8	2.001	20.93	56.00	-35.07	11.11	9.62	0.20	0.00	QP
9	16.226	26.04	50.00	-23.96	15.84	9.61	0.59	0.00	Average
10	16.226	31.98	60.00	-28.02	21.78	9.61	0.59	0.00	QP
11*	19.224	30.63	50.00	-19.37	20.39	9.59	0.65	0.00	Average
12	19.224	35.90	60.00	-24.10	25.66	9.59	0.65	0.00	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

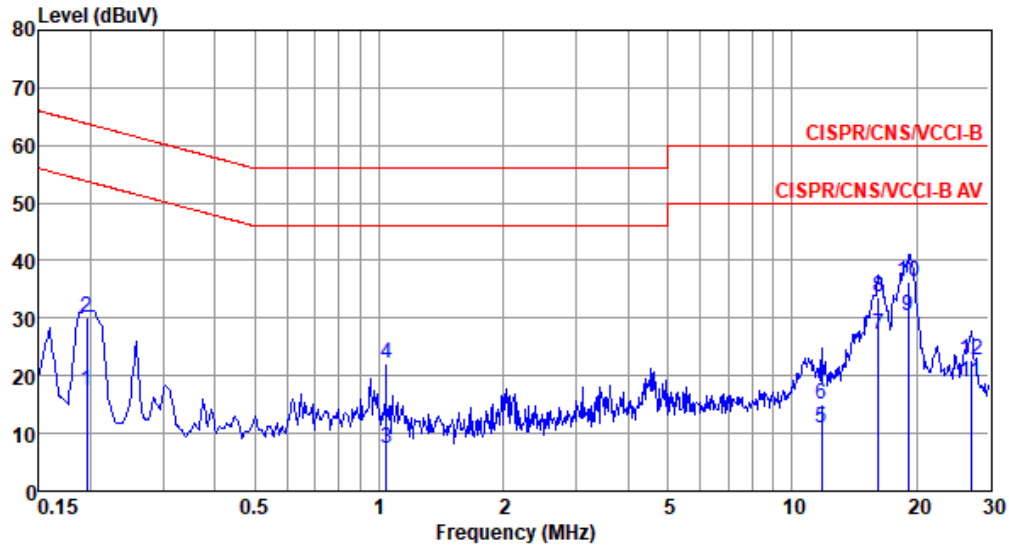


Modulation Mod	11a	Test Freq. (MHz)	5785
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 20°C

Humidity: 60%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark
	MHz	dBuV	Line	Limit	Level	dB	loss	dB	
			dBuV	dB	dBuV		dB		
1	0.195	17.55	53.80	-36.25	7.88	9.59	0.08	0.00	Average
2	0.195	30.02	63.80	-33.78	20.35	9.59	0.08	0.00	QP
3	1.040	7.44	46.00	-38.56	-2.31	9.59	0.16	0.00	Average
4	1.040	22.02	56.00	-33.98	12.27	9.59	0.16	0.00	QP
5	11.807	11.05	50.00	-38.95	0.90	9.66	0.49	0.00	Average
6	11.807	15.10	60.00	-44.90	4.95	9.66	0.49	0.00	QP
7	16.226	27.01	50.00	-22.99	16.75	9.67	0.59	0.00	Average
8	16.226	33.73	60.00	-26.27	23.47	9.67	0.59	0.00	QP
9*	19.122	30.34	50.00	-19.66	20.02	9.68	0.64	0.00	Average
10	19.122	36.27	60.00	-23.73	25.95	9.68	0.64	0.00	QP
11	27.127	18.91	50.00	-31.09	8.52	9.65	0.74	0.00	Average
12	27.127	22.62	60.00	-37.38	12.23	9.65	0.74	0.00	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).