

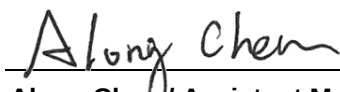
FCC C2PC Test Report

FCC ID : SQG-SSD45N
Equipment : Radio Module
Model No. : SSD45N
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. 01 ~ Apr. 18, 2022

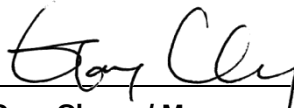
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the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

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	9
1.3	Test Setup Chart	9
1.4	The Equipment List	10
1.5	Test Standards	11
1.6	Reference Guidance	11
1.7	Deviation from Test Standard and Measurement Procedure.....	11
1.8	Measurement Uncertainty	11
2	TEST CONFIGURATION.....	12
2.1	Testing Facility	12
2.2	The Worst Test Modes and Channel Details	13
3	TRANSMITTER TEST RESULTS	14
3.1	Conducted Output Power	14
3.2	Unwanted Emissions.....	16
3.3	AC Power Line Conducted Emissions	19
4	TEST LABORATORY INFORMATION	20
Appendix A. Conducted Output Power		
Appendix B. Unwanted Emissions		
Appendix C. AC Power Line Conducted Emissions		

Release Record

Report No.	Version	Description	Issued Date
FR442904-09AN	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 40.94 (Margin -19.06dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5725.00MHz 66.58 (Margin -1.62dB) - PK	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: 5150~5250MHz: 16.38 5250~5350MHz: 16.36 5470~5725MHz: 17.64 5725~5850MHz: 18.07	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 issued as a FCC Class II Permissive Change.

This report is issued as a supplementary report to original ICC report no. FR442904-07AN. The difference is concerned with following items:

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

Related test items had been performed and recorded in the following sections. Other test results were kept as same as mentioned on original report.

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 / MCS
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: RF output power specifies that Maximum Conducted Output Power. Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation. Note 3: 802.11n supports HT20 only					

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	MAG.LAYERS EDA-1513-25GR2-B 2-CY	Dipole	SMA Jack Reverse	2	2	2	2	2
2	MAG.LAYERS PCA-4606-2G4C1-A 13-CY	PCB Dipole	UFL	2.21	---	---	---	---
3	Laird NanoBlade-IP04	PCB Dipole	UFL	2	3.9	3.9	4	4
4	Laird MAF95310 Mini NanoBlade Flex	PCB Dipole	UFL	2.79	3.38	3.38	3.38	3.38
5	Laird NanoBlue-IP04	PCB Dipole	UFL	2	---	---	---	---
6	Ethertronics WLAN_1000146	PIFA	UFL	2.5	3.5	3.5	3.5	3.5
7	SAA / MG7018-41-000-R	Dipole	UFL	1.87	0.85	0.6	0.94	0.92
8	SAA / MG7324-41-000-R	Dipole	UFL	1.32	1.04	1.6	2.75	2.24
9	EMF2449A1-33UFL	PCB Dipole	UFL	0.8	3.3	3.3	3.3	3.3

Note: The antennas with highest gain of each type were selected for final testing in this test report

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from power supply
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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	Terminal, Version: 2.32.1		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	99.26	0.03
	HT20	99.62	0.02

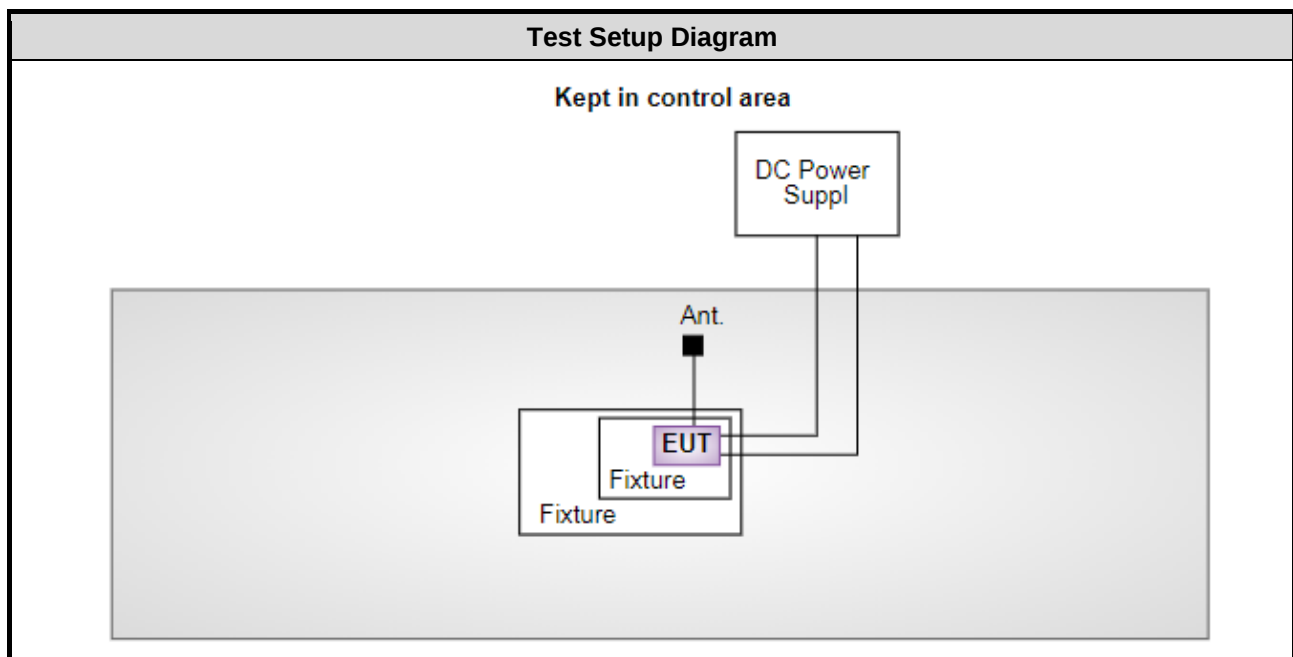
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	14.5
11a	5200	14.5
11a	5240	15.5
11a	5260	16
11a	5300	16
11a	5320	15.5
11a	5500	14.5
11a	5580	17
11a	5700	14.5
11a	5745	15.5
11a	5785	18
11a	5825	18.5
HT20	5180	14
HT20	5200	14
HT20	5240	15.5
HT20	5260	15.5
HT20	5300	15.5
HT20	5320	15
HT20	5500	14.5
HT20	5580	17
HT20	5700	14.5
HT20	5745	15.5
HT20	5785	18
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-3060D	---	---
2	Notebook	Lenovo	X61	---	Provided by applicant.
3	DC Cable (x2)	ICC	DCC-10m-R	---	
4	USB - RS232-G	Pro-BEST	MK-CBL-BF810 USB	---	
5	Fixture	---	---	---	Provided by applicant.

1.3 Test Setup Chart



Note: The notebook and USB - RS232-G are disconnected from EUT and removed from test table when EUT is set to transmit continuously.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Apr. 13, 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. 01, 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. 18, 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	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
Conducted power	±0.808 dB
AC conducted emission	±2.92 dB
Unwanted Emission ≤ 1GHz	±3.96 dB
Unwanted Emission > 1GHz	±4.51 dB
Time	±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
- ISED#: 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	1
Unwanted Emissions ≤1GHz	11a	5580	6 Mbps	1, 2, 3
	11a	5240	6 Mbps	4
Conducted Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700	6 Mbps	1
	HT20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700	MCS 0	
Unwanted Emissions >1GHz	11a	5180 / 5320	6 Mbps	4
	HT20	5180 / 5320 / 5700	MCS 0	1
		5180 / 5320 / 5700		2
		5700		3
Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	11a	5825	6 Mbps	1
Unwanted Emissions ≤1GHz	11a	5825	6 Mbps	1, 2, 3
Conducted Output Power	11a	5745 / 5785 / 5825	6 Mbps	1
	HT20	5745 / 5785 / 5825	MCS 0	
Unwanted Emissions >1GHz	11a	5785	6 Mbps	2
	HT20	5785	MCS 0	1
	HT20	5785	MCS 0	3

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.

2. Test configurations are listed as below:

1) Configuration 1 : PCB Dipole antenna (Antenna No.3)

2) Configuration 2 : PIFA antenna (Antenna No.6)

3) Configuration 3 : Dipole antenna (Antenna No.8) / 5.47 ~ 5.725 GHz

4) Configuration 4: Dipole antenna (Antenna No.1) / 5.15 ~ 5.35 GHz

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

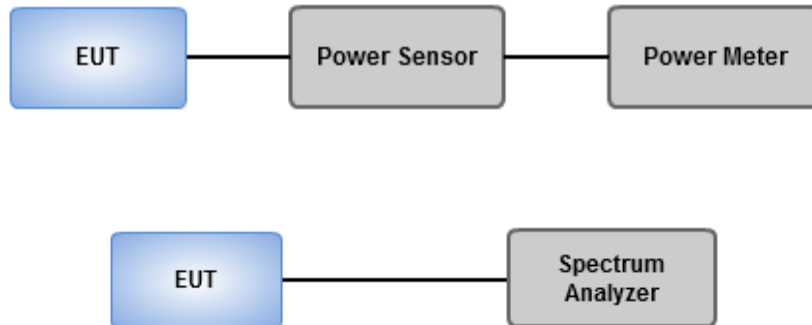
Method PM-G (Measurement using a gated RF average power meter)

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 / 66%	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

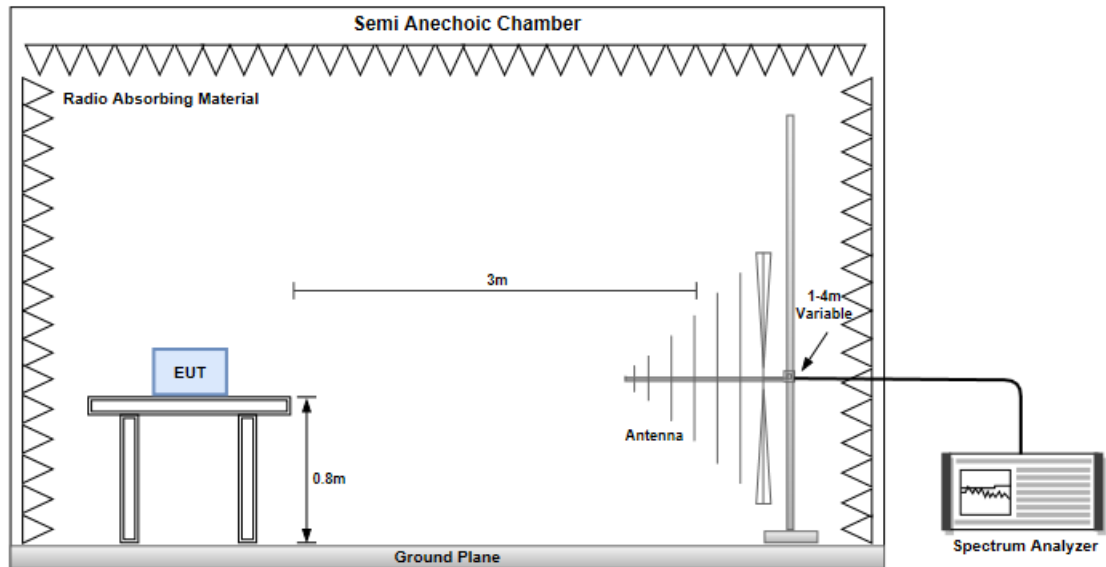
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

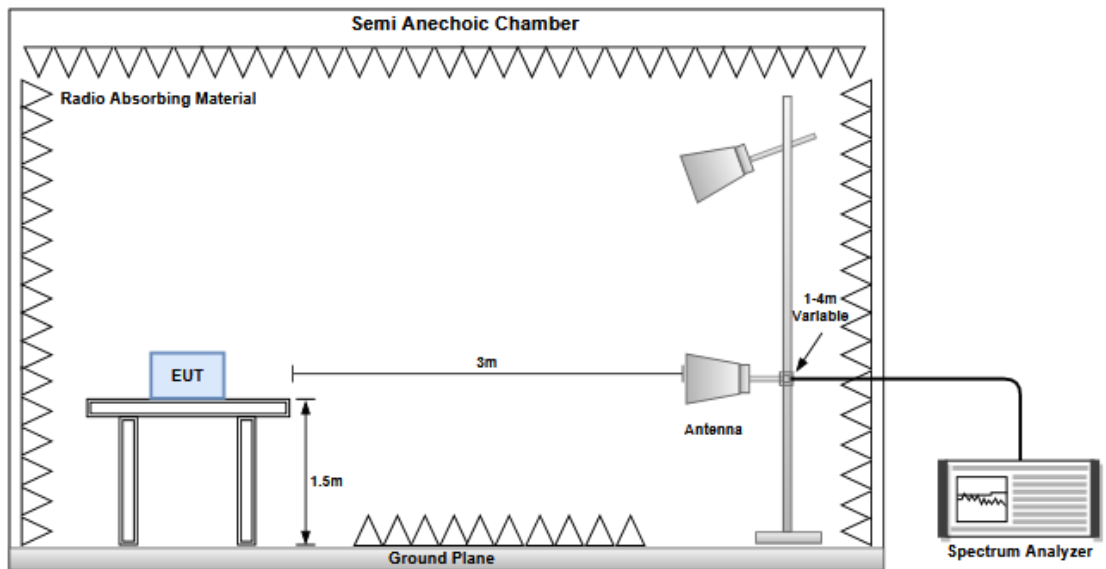
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.3.1 Limit of AC Power Line Conducted Emissions

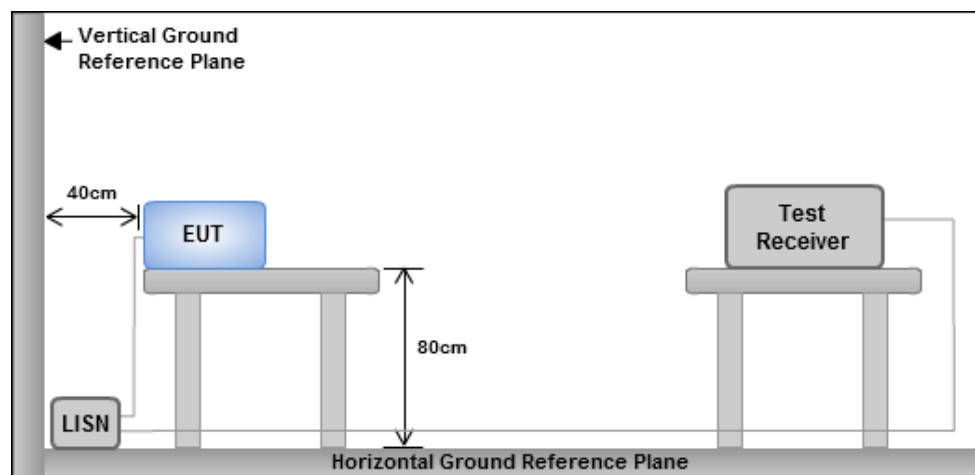
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.3.2 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

3.3.3 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

3.3.4 Test Results

Refer to Appendix C.

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	16.38	0.04345	20.28	0.10666
802.11n HT20_Nss1,(MCS0)_1TX	16.24	0.04207	20.14	0.10328
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.36	0.04325	20.26	0.10617
802.11n HT20_Nss1,(MCS0)_1TX	16.22	0.04188	20.12	0.10280
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	17.64	0.05808	21.64	0.14588
802.11n HT20_Nss1,(MCS0)_1TX	17.60	0.05754	21.60	0.14454
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	18.07	0.06412	22.07	0.16106
802.11n HT20_Nss1,(MCS0)_1TX	18.00	0.06310	22.00	0.15849



Conducted Output Power

Appendix A

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	15.49	15.49	24.00	19.39	30.00
5200MHz	Pass	3.90	15.06	15.06	24.00	18.96	30.00
5240MHz	Pass	3.90	16.38	16.38	24.00	20.28	30.00
5260MHz	Pass	3.90	16.36	16.36	24.00	20.26	30.00
5300MHz	Pass	3.90	16.11	16.11	24.00	20.01	30.00
5320MHz	Pass	3.90	15.65	15.65	24.00	19.55	30.00
5500MHz	Pass	4.00	15.29	15.29	24.00	19.29	30.00
5580MHz	Pass	4.00	17.64	17.64	24.00	21.64	30.00
5700MHz	Pass	4.00	15.01	15.01	24.00	19.01	30.00
5745MHz	Pass	4.00	15.66	15.66	30.00	19.66	36.00
5785MHz	Pass	4.00	18.03	18.03	30.00	22.03	36.00
5825MHz	Pass	4.00	18.07	18.07	30.00	22.07	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.90	15.29	15.29	24.00	19.19	30.00
5200MHz	Pass	3.90	15.02	15.02	24.00	18.92	30.00
5240MHz	Pass	3.90	16.24	16.24	24.00	20.14	30.00
5260MHz	Pass	3.90	16.22	16.22	24.00	20.12	30.00
5300MHz	Pass	3.90	16.01	16.01	24.00	19.91	30.00
5320MHz	Pass	3.90	15.49	15.49	24.00	19.39	30.00
5500MHz	Pass	4.00	15.06	15.06	24.00	19.06	30.00
5580MHz	Pass	4.00	17.6	17.60	24.00	21.60	30.00
5700MHz	Pass	4.00	14.98	14.98	24.00	18.98	30.00
5745MHz	Pass	4.00	15.52	15.52	30.00	19.52	36.00
5785MHz	Pass	4.00	18	18.00	30.00	22.00	36.00
5825MHz	Pass	4.00	17.49	17.49	30.00	21.49	36.00

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



Configuration 1: PCB Dipole antenna (Antenna No.3)

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m) </			



Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBuV/m)			



Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m) <			



Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m)			

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBuV/m) </			



Modulation	HT20	Test Freq. (MHz)	5180																																																												
Polarization	Vertical																																																														
Test By :Brad Wu Temperature(°C):23 Humidity(%):67																																																															
<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>5150.00</td><td>46.86</td><td>54.00</td><td>-7.14</td><td>40.55</td><td>6.31</td><td>Average</td><td>102</td><td>100</td></tr><tr><td>2</td><td>5150.00</td><td>62.19</td><td>74.00</td><td>-11.81</td><td>55.88</td><td>6.31</td><td>Peak</td><td>102</td><td>100</td></tr><tr><td>3</td><td>10360.00</td><td>56.99</td><td>68.20</td><td>-11.21</td><td>42.54</td><td>14.45</td><td>Peak</td><td>100</td><td>42</td></tr><tr><td>4</td><td>15540.00</td><td>43.65</td><td>54.00</td><td>-10.35</td><td>27.25</td><td>16.40</td><td>Average</td><td>100</td><td>55</td></tr><tr><td>5</td><td>15540.00</td><td>56.73</td><td>74.00</td><td>-17.27</td><td>40.33</td><td>16.40</td><td>Peak</td><td>100</td><td>55</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	5150.00	46.86	54.00	-7.14	40.55	6.31	Average	102	100	2	5150.00	62.19	74.00	-11.81	55.88	6.31	Peak	102	100	3	10360.00	56.99	68.20	-11.21	42.54	14.45	Peak	100	42	4	15540.00	43.65	54.00	-10.35	27.25	16.40	Average	100	55	5	15540.00	56.73	74.00	-17.27	40.33	16.40	Peak	100	55
	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	46.86	54.00	-7.14	40.55	6.31	Average	102	100																																																						
2	5150.00	62.19	74.00	-11.81	55.88	6.31	Peak	102	100																																																						
3	10360.00	56.99	68.20	-11.21	42.54	14.45	Peak	100	42																																																						
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5	15540.00	56.73	74.00	-17.27	40.33	16.40	Peak	100	55																																																						
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)		5320																																																																																														
Polarization	Horizontal																																																																																																		
Test By :Brad Wu			Temperature(°C):23			Humidity(%):67																																																																																													
Level (dBuV/m) Frequency (MHz) <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>dBuV/m</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>5350.00</td><td>44.82</td><td>54.00</td><td>-9.18</td><td>39.10</td><td>5.72</td><td>Average</td><td>102</td><td>311</td></tr><tr><td>2</td><td>5350.00</td><td>58.02</td><td>74.00</td><td>-15.98</td><td>52.30</td><td>5.72</td><td>Peak</td><td>102</td><td>311</td></tr><tr><td>3</td><td>10640.00</td><td>44.11</td><td>54.00</td><td>-9.89</td><td>29.25</td><td>14.86</td><td>Average</td><td>100</td><td>23</td></tr><tr><td>4</td><td>10640.00</td><td>56.18</td><td>74.00</td><td>-17.82</td><td>41.32</td><td>14.86</td><td>Peak</td><td>100</td><td>23</td></tr><tr><td>5</td><td>15960.00</td><td>44.01</td><td>54.00</td><td>-9.99</td><td>28.36</td><td>15.65</td><td>Average</td><td>100</td><td>47</td></tr><tr><td>6</td><td>15960.00</td><td>56.20</td><td>74.00</td><td>-17.80</td><td>40.55</td><td>15.65</td><td>Peak</td><td>100</td><td>47</td></tr></tbody></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table			dBuV/m			dBuV			cm	deg	1	5350.00	44.82	54.00	-9.18	39.10	5.72	Average	102	311	2	5350.00	58.02	74.00	-15.98	52.30	5.72	Peak	102	311	3	10640.00	44.11	54.00	-9.89	29.25	14.86	Average	100	23	4	10640.00	56.18	74.00	-17.82	41.32	14.86	Peak	100	23	5	15960.00	44.01	54.00	-9.99	28.36	15.65	Average	100	47	6	15960.00	56.20	74.00	-17.80	40.55	15.65	Peak	100	47
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																										
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3	10640.00	44.11	54.00	-9.89	29.25	14.86	Average	100	23																																																																																										
4	10640.00	56.18	74.00	-17.82	41.32	14.86	Peak	100	23																																																																																										
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6	15960.00	56.20	74.00	-17.80	40.55	15.65	Peak	100	47																																																																																										
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).																																																																																																			



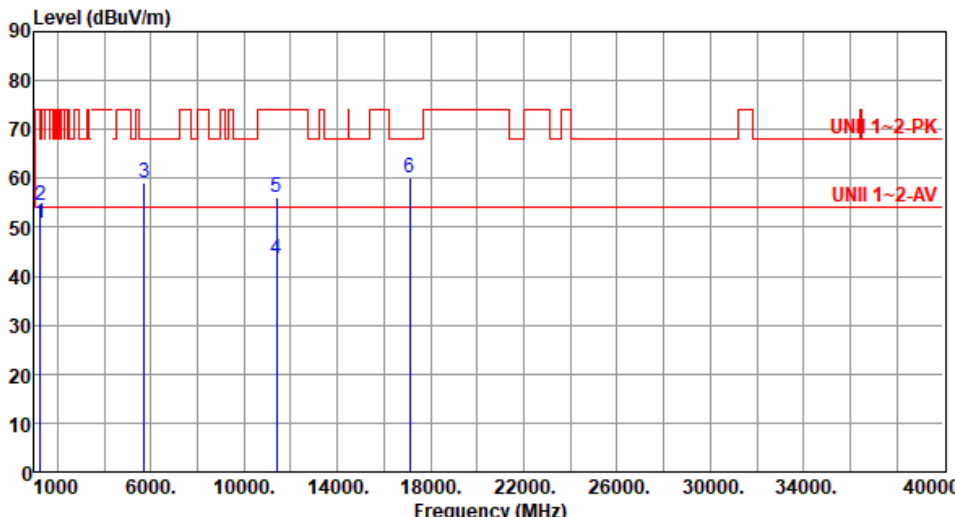
Unwanted Emissions into Restricted Frequency Bands

Appendix B

Modulation	HT20		Test Freq. (MHz)		5320				
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):23 Humidity(%):67									
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	5350.00	47.47	54.00	-6.53	41.75	5.72	Average	100	95
2	5350.00	61.05	74.00	-12.95	55.33	5.72	Peak	100	95
3	10640.00	46.25	54.00	-7.75	31.39	14.86	Average	320	235
4	10640.00	61.66	74.00	-12.34	46.80	14.86	Peak	320	235
5	15960.00	43.60	54.00	-10.40	27.95	15.65	Average	100	60
6	15960.00	56.54	74.00	-17.46	40.89	15.65	Peak	100	60

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)	5700																																																																							
Polarization	Horizontal																																																																									
Test By :Brad Wu Temperature(°C):23 Humidity(%):67																																																																										
																																																																										
	<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>1245.00</td><td>50.73</td><td>54.00</td><td>-3.27</td><td>57.81</td><td>-7.08</td><td>Average</td><td>202</td><td>55</td></tr><tr><td>2</td><td>1245.00</td><td>54.48</td><td>68.20</td><td>-13.72</td><td>61.56</td><td>-7.08</td><td>Peak</td><td>202</td><td>55</td></tr><tr><td>3</td><td>5725.00</td><td>59.25</td><td>68.20</td><td>-8.95</td><td>52.66</td><td>6.59</td><td>Peak</td><td>100</td><td>115</td></tr><tr><td>4</td><td>11400.00</td><td>43.45</td><td>54.00</td><td>-10.55</td><td>28.30</td><td>15.15</td><td>Average</td><td>100</td><td>23</td></tr><tr><td>5</td><td>11400.00</td><td>56.03</td><td>74.00</td><td>-17.97</td><td>40.88</td><td>15.15</td><td>Peak</td><td>100</td><td>23</td></tr><tr><td>6</td><td>17100.00</td><td>60.03</td><td>68.20</td><td>-8.17</td><td>41.88</td><td>18.15</td><td>Peak</td><td>100</td><td>20</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	1245.00	50.73	54.00	-3.27	57.81	-7.08	Average	202	55	2	1245.00	54.48	68.20	-13.72	61.56	-7.08	Peak	202	55	3	5725.00	59.25	68.20	-8.95	52.66	6.59	Peak	100	115	4	11400.00	43.45	54.00	-10.55	28.30	15.15	Average	100	23	5	11400.00	56.03	74.00	-17.97	40.88	15.15	Peak	100	23	6	17100.00	60.03	68.20	-8.17	41.88	18.15	Peak	100	20			
	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	1245.00	50.73	54.00	-3.27	57.81	-7.08	Average	202	55																																																																	
2	1245.00	54.48	68.20	-13.72	61.56	-7.08	Peak	202	55																																																																	
3	5725.00	59.25	68.20	-8.95	52.66	6.59	Peak	100	115																																																																	
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Modulation	HT20	Test Freq. (MHz)	5700																																																																						
Polarization	Vertical																																																																								
Test By :Brad Wu Temperature(°C):23 Humidity(%):67																																																																									
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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 :Brad Wu Temperature(°C):23 Humidity(%):67																																																															
<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>5650.00</td><td>57.60</td><td>68.20</td><td>-10.60</td><td>51.28</td><td>6.32</td><td>Peak</td><td>118</td><td>306</td></tr><tr><td>2</td><td>5925.00</td><td>58.61</td><td>68.20</td><td>-9.59</td><td>51.58</td><td>7.03</td><td>Peak</td><td>118</td><td>306</td></tr><tr><td>3</td><td>11570.00</td><td>47.02</td><td>54.00</td><td>-6.98</td><td>31.64</td><td>15.38</td><td>Average</td><td>196</td><td>128</td></tr><tr><td>4</td><td>11570.00</td><td>59.94</td><td>74.00</td><td>-14.06</td><td>44.56</td><td>15.38</td><td>Peak</td><td>196</td><td>128</td></tr><tr><td>5</td><td>17355.00</td><td>60.32</td><td>68.20</td><td>-7.88</td><td>41.34</td><td>18.98</td><td>Peak</td><td>100</td><td>32</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	5650.00	57.60	68.20	-10.60	51.28	6.32	Peak	118	306	2	5925.00	58.61	68.20	-9.59	51.58	7.03	Peak	118	306	3	11570.00	47.02	54.00	-6.98	31.64	15.38	Average	196	128	4	11570.00	59.94	74.00	-14.06	44.56	15.38	Peak	196	128	5	17355.00	60.32	68.20	-7.88	41.34	18.98	Peak	100	32
	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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Unwanted Emissions into Restricted Frequency Bands

Appendix B

Modulation	HT20	Test Freq. (MHz)	5785																																																												
Polarization	Vertical																																																														
Test By :Brad Wu Temperature(°C):23 Humidity(%):67																																																															
<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>5650.00</td><td>58.48</td><td>68.20</td><td>-9.72</td><td>52.16</td><td>6.32</td><td>Peak</td><td>125</td><td>263</td></tr><tr><td>2</td><td>5925.00</td><td>59.48</td><td>68.20</td><td>-8.72</td><td>52.45</td><td>7.03</td><td>Peak</td><td>125</td><td>263</td></tr><tr><td>3</td><td>11570.00</td><td>51.02</td><td>54.00</td><td>-2.98</td><td>35.64</td><td>15.38</td><td>Average</td><td>327</td><td>5</td></tr><tr><td>4</td><td>11570.00</td><td>64.34</td><td>74.00</td><td>-9.66</td><td>48.96</td><td>15.38</td><td>Peak</td><td>327</td><td>5</td></tr><tr><td>5</td><td>17355.00</td><td>60.21</td><td>68.20</td><td>-7.99</td><td>41.23</td><td>18.98</td><td>Peak</td><td>100</td><td>24</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	5650.00	58.48	68.20	-9.72	52.16	6.32	Peak	125	263	2	5925.00	59.48	68.20	-8.72	52.45	7.03	Peak	125	263	3	11570.00	51.02	54.00	-2.98	35.64	15.38	Average	327	5	4	11570.00	64.34	74.00	-9.66	48.96	15.38	Peak	327	5	5	17355.00	60.21	68.20	-7.99	41.23	18.98	Peak	100	24
	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	58.48	68.20	-9.72	52.16	6.32	Peak	125	263																																																						
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3	11570.00	51.02	54.00	-2.98	35.64	15.38	Average	327	5																																																						
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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).																																																															

Configuration 2: PIFA antenna (Antenna No.6)

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m) </			



Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m) <			



Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m)			

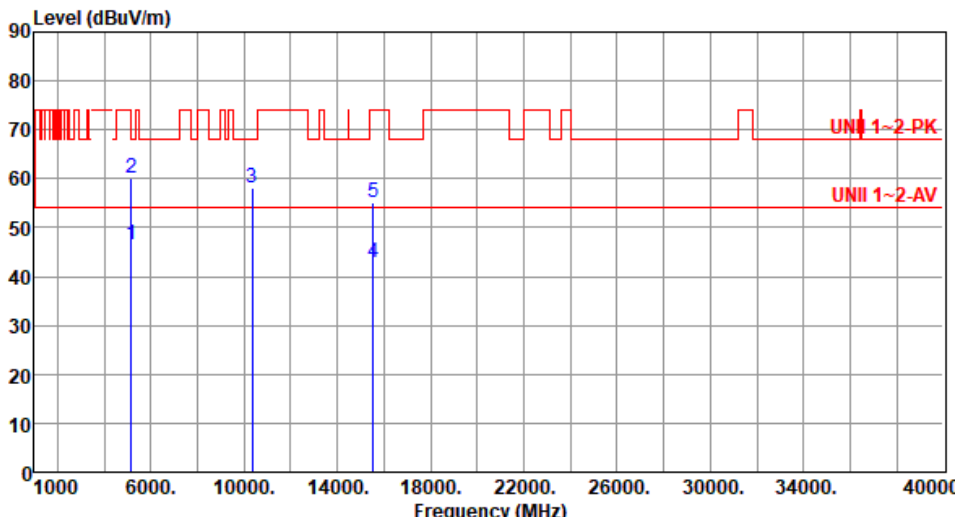


Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBuV/m) <			

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):67			
Level (dBuV/m)			

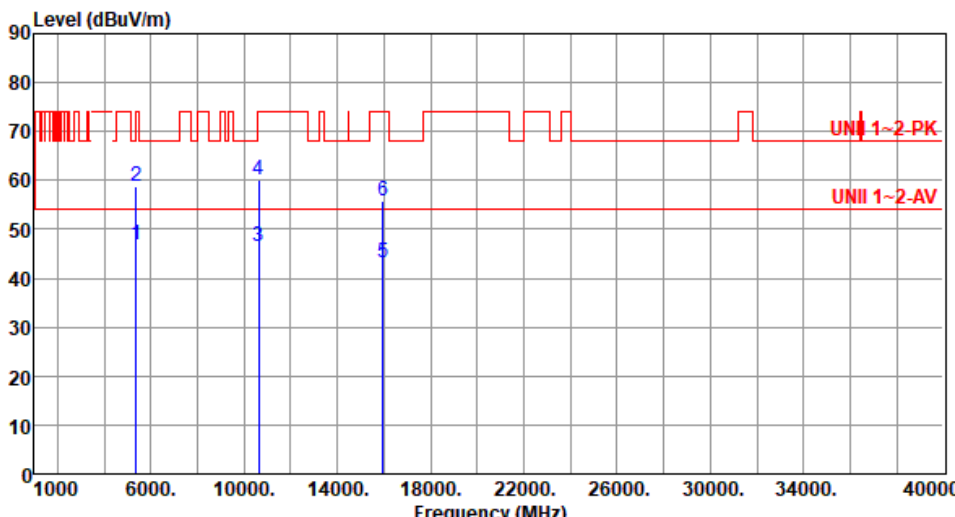


Modulation	HT20	Test Freq. (MHz)	5180																																																												
Polarization	Vertical																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):67																																																															
Level (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>5150.00</td><td>46.59</td><td>54.00</td><td>-7.41</td><td>40.28</td><td>6.31</td><td>Average</td><td>100</td><td>96</td></tr><tr><td>2</td><td>5150.00</td><td>60.16</td><td>74.00</td><td>-13.84</td><td>53.85</td><td>6.31</td><td>Peak</td><td>100</td><td>96</td></tr><tr><td>3</td><td>10360.00</td><td>58.00</td><td>68.20</td><td>-10.20</td><td>43.55</td><td>14.45</td><td>Peak</td><td>185</td><td>44</td></tr><tr><td>4</td><td>15540.00</td><td>42.84</td><td>54.00</td><td>-11.16</td><td>26.44</td><td>16.40</td><td>Average</td><td>100</td><td>45</td></tr><tr><td>5</td><td>15540.00</td><td>55.17</td><td>74.00</td><td>-18.83</td><td>38.77</td><td>16.40</td><td>Peak</td><td>100</td><td>45</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	5150.00	46.59	54.00	-7.41	40.28	6.31	Average	100	96	2	5150.00	60.16	74.00	-13.84	53.85	6.31	Peak	100	96	3	10360.00	58.00	68.20	-10.20	43.55	14.45	Peak	185	44	4	15540.00	42.84	54.00	-11.16	26.44	16.40	Average	100	45	5	15540.00	55.17	74.00	-18.83	38.77	16.40	Peak	100	45
	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	46.59	54.00	-7.41	40.28	6.31	Average	100	96																																																						
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3	10360.00	58.00	68.20	-10.20	43.55	14.45	Peak	185	44																																																						
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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).																																																															



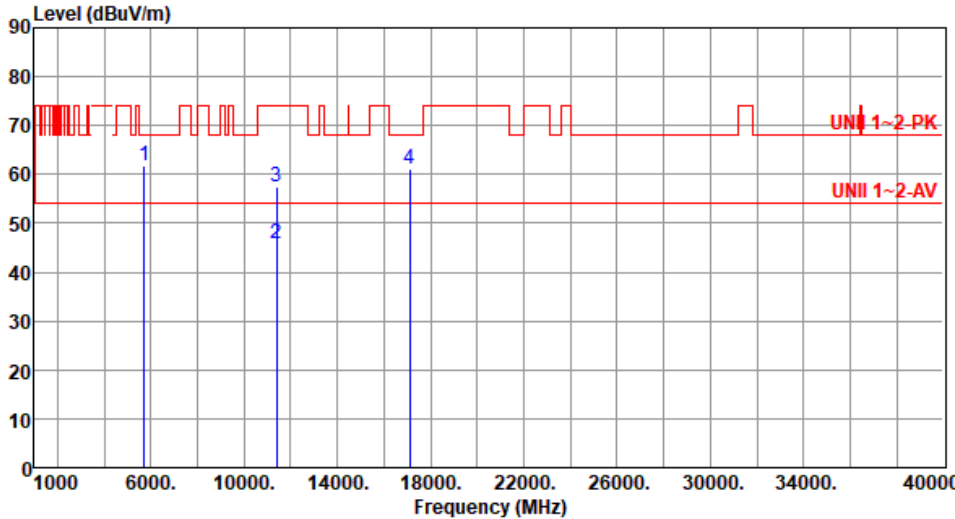
Modulation	HT20	Test Freq. (MHz)	5320																																																																						
Polarization	Horizontal																																																																								
Test By :Roger Lu Temperature(°C):23 Humidity(%):67																																																																									
<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>5350.00</td><td>45.27</td><td>54.00</td><td>-8.73</td><td>39.55</td><td>5.72</td><td>Average</td><td>102</td><td>320</td></tr><tr><td>2</td><td>5350.00</td><td>58.42</td><td>74.00</td><td>-15.58</td><td>52.70</td><td>5.72</td><td>Peak</td><td>102</td><td>320</td></tr><tr><td>3</td><td>10640.00</td><td>44.22</td><td>54.00</td><td>-9.78</td><td>29.36</td><td>14.86</td><td>Average</td><td>177</td><td>332</td></tr><tr><td>4</td><td>10640.00</td><td>58.08</td><td>74.00</td><td>-15.92</td><td>43.22</td><td>14.86</td><td>Peak</td><td>177</td><td>322</td></tr><tr><td>5</td><td>15960.00</td><td>43.20</td><td>54.00</td><td>-10.80</td><td>27.55</td><td>15.65</td><td>Average</td><td>100</td><td>65</td></tr><tr><td>6</td><td>15960.00</td><td>55.85</td><td>74.00</td><td>-18.15</td><td>40.20</td><td>15.65</td><td>Peak</td><td>100</td><td>65</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	5350.00	45.27	54.00	-8.73	39.55	5.72	Average	102	320	2	5350.00	58.42	74.00	-15.58	52.70	5.72	Peak	102	320	3	10640.00	44.22	54.00	-9.78	29.36	14.86	Average	177	332	4	10640.00	58.08	74.00	-15.92	43.22	14.86	Peak	177	322	5	15960.00	43.20	54.00	-10.80	27.55	15.65	Average	100	65	6	15960.00	55.85	74.00	-18.15	40.20	15.65	Peak	100	65
	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	5350.00	45.27	54.00	-8.73	39.55	5.72	Average	102	320																																																																
2	5350.00	58.42	74.00	-15.58	52.70	5.72	Peak	102	320																																																																
3	10640.00	44.22	54.00	-9.78	29.36	14.86	Average	177	332																																																																
4	10640.00	58.08	74.00	-15.92	43.22	14.86	Peak	177	322																																																																
5	15960.00	43.20	54.00	-10.80	27.55	15.65	Average	100	65																																																																
6	15960.00	55.85	74.00	-18.15	40.20	15.65	Peak	100	65																																																																
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)	5320						
Polarization	Vertical								
Test By :Roger Lu Temperature(°C):23 Humidity(%):67									
									
	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	5350.00	46.77	54.00	-7.23	41.05	5.72	Average	100	115
2	5350.00	58.77	74.00	-15.23	53.05	5.72	Peak	100	115
3	10640.00	46.40	54.00	-7.60	31.54	14.86	Average	202	45
4	10640.00	60.19	74.00	-13.81	45.33	14.86	Peak	205	45
5	15960.00	43.07	54.00	-10.93	27.42	15.65	Average	100	56
6	15960.00	55.67	74.00	-18.33	40.02	15.65	Peak	100	56

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)	5700																																																		
Polarization	Horizontal																																																				
Test By :Brad Wu Temperature(°C):23 Humidity(%):67																																																					
 <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>61.76</td><td>68.20</td><td>-6.44</td><td>55.17</td><td>6.59</td><td>Peak</td><td>103</td><td>312</td></tr><tr><td>2</td><td>11400.00</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>22</td></tr><tr><td>3</td><td>11400.00</td><td>57.33</td><td>74.00</td><td>-16.67</td><td>42.18</td><td>15.15</td><td>Peak</td><td>100</td><td>22</td></tr><tr><td>4</td><td>17100.00</td><td>61.15</td><td>68.20</td><td>-7.05</td><td>43.00</td><td>18.15</td><td>Peak</td><td>100</td><td>50</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	61.76	68.20	-6.44	55.17	6.59	Peak	103	312	2	11400.00	45.71	54.00	-8.29	30.56	15.15	Average	100	22	3	11400.00	57.33	74.00	-16.67	42.18	15.15	Peak	100	22	4	17100.00	61.15	68.20	-7.05	43.00	18.15	Peak	100	50
	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	61.76	68.20	-6.44	55.17	6.59	Peak	103	312																																												
2	11400.00	45.71	54.00	-8.29	30.56	15.15	Average	100	22																																												
3	11400.00	57.33	74.00	-16.67	42.18	15.15	Peak	100	22																																												
4	17100.00	61.15	68.20	-7.05	43.00	18.15	Peak	100	50																																												
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)	5700																																																		
Polarization	Vertical																																																				
Test By :Brad Wu Temperature(°C):23 Humidity(%):67																																																					
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>65.80</td><td>68.20</td><td>-2.40</td><td>59.21</td><td>6.59</td><td>Peak</td><td>100</td><td>70</td></tr><tr><td>2</td><td>11400.00</td><td>45.88</td><td>54.00</td><td>-8.12</td><td>30.73</td><td>15.15</td><td>Average</td><td>100</td><td>25</td></tr><tr><td>3</td><td>11400.00</td><td>58.40</td><td>74.00</td><td>-15.60</td><td>43.25</td><td>15.15</td><td>Peak</td><td>100</td><td>25</td></tr><tr><td>4</td><td>17100.00</td><td>60.37</td><td>68.20</td><td>-7.83</td><td>42.22</td><td>18.15</td><td>Peak</td><td>100</td><td>80</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	65.80	68.20	-2.40	59.21	6.59	Peak	100	70	2	11400.00	45.88	54.00	-8.12	30.73	15.15	Average	100	25	3	11400.00	58.40	74.00	-15.60	43.25	15.15	Peak	100	25	4	17100.00	60.37	68.20	-7.83	42.22	18.15	Peak	100	80
	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	65.80	68.20	-2.40	59.21	6.59	Peak	100	70																																												
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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)	5785																																																												
Polarization	Horizontal																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):67																																																															
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>57.54</td><td>68.20</td><td>-10.66</td><td>51.22</td><td>6.32</td><td>Peak</td><td>102</td><td>320</td></tr><tr><td>2</td><td>5925.00</td><td>59.47</td><td>68.20</td><td>-8.73</td><td>52.44</td><td>7.03</td><td>Peak</td><td>102</td><td>320</td></tr><tr><td>3</td><td>11570.00</td><td>45.83</td><td>54.00</td><td>-8.17</td><td>30.45</td><td>15.38</td><td>Average</td><td>111</td><td>12</td></tr><tr><td>4</td><td>11570.00</td><td>59.24</td><td>74.00</td><td>-14.76</td><td>43.86</td><td>15.38</td><td>Peak</td><td>110</td><td>12</td></tr><tr><td>5</td><td>17355.00</td><td>58.79</td><td>68.20</td><td>-9.41</td><td>39.81</td><td>18.98</td><td>Peak</td><td>100</td><td>56</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	57.54	68.20	-10.66	51.22	6.32	Peak	102	320	2	5925.00	59.47	68.20	-8.73	52.44	7.03	Peak	102	320	3	11570.00	45.83	54.00	-8.17	30.45	15.38	Average	111	12	4	11570.00	59.24	74.00	-14.76	43.86	15.38	Peak	110	12	5	17355.00	58.79	68.20	-9.41	39.81	18.98	Peak	100	56
	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	57.54	68.20	-10.66	51.22	6.32	Peak	102	320																																																						
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Modulation	11a	Test Freq. (MHz)	5785																																																												
Polarization	Vertical																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):67																																																															
Level (dBUV/m) UNII 3-PK UNII 3-AV 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>5650.00</td><td>58.76</td><td>68.20</td><td>-9.44</td><td>52.44</td><td>6.32</td><td>Peak</td><td>100</td><td>125</td></tr><tr><td>2</td><td>5925.00</td><td>60.11</td><td>68.20</td><td>-8.09</td><td>53.08</td><td>7.03</td><td>Peak</td><td>100</td><td>125</td></tr><tr><td>3</td><td>11570.00</td><td>48.94</td><td>54.00</td><td>-5.06</td><td>33.56</td><td>15.38</td><td>Average</td><td>178</td><td>22</td></tr><tr><td>4</td><td>11570.00</td><td>61.24</td><td>74.00</td><td>-12.76</td><td>45.86</td><td>15.38</td><td>Peak</td><td>175</td><td>22</td></tr><tr><td>5</td><td>17355.00</td><td>59.38</td><td>68.20</td><td>-8.82</td><td>40.40</td><td>18.98</td><td>Peak</td><td>100</td><td>56</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	5650.00	58.76	68.20	-9.44	52.44	6.32	Peak	100	125	2	5925.00	60.11	68.20	-8.09	53.08	7.03	Peak	100	125	3	11570.00	48.94	54.00	-5.06	33.56	15.38	Average	178	22	4	11570.00	61.24	74.00	-12.76	45.86	15.38	Peak	175	22	5	17355.00	59.38	68.20	-8.82	40.40	18.98	Peak	100	56
	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	58.76	68.20	-9.44	52.44	6.32	Peak	100	125																																																						
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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).																																																															



Configuration 3: Dipole antenna (Antenna No.8)

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBuV/m) </			



Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m)			



Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m) <			



Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m)			



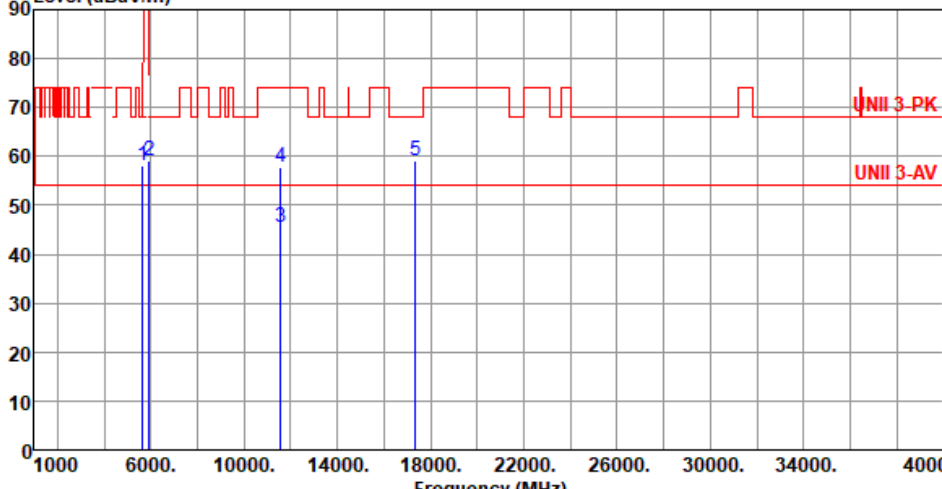
Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m) <			

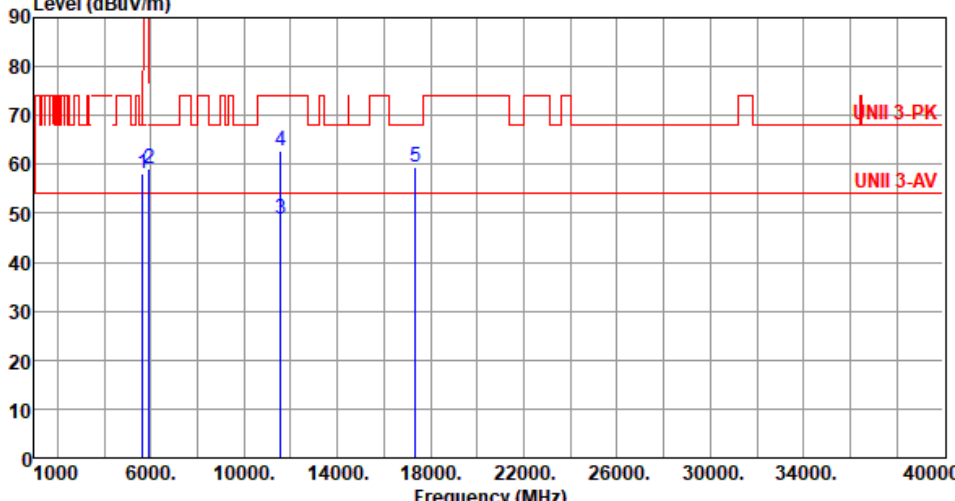


Modulation	HT20	Test Freq. (MHz)	5700																																																		
Polarization	Vertical																																																				
Test By :Brad Wu Temperature(°C):23 Humidity(%):67																																																					
<table><tr><th></th><th>Freq. MHz</th><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>66.03</td><td>68.20</td><td>-2.17</td><td>59.44</td><td>6.59</td><td>Peak</td><td>182</td><td>292</td></tr><tr><td>2</td><td>11400.00</td><td>45.92</td><td>54.00</td><td>-8.08</td><td>30.77</td><td>15.15</td><td>Average</td><td>100</td><td>5</td></tr><tr><td>3</td><td>11400.00</td><td>57.90</td><td>74.00</td><td>-16.10</td><td>42.75</td><td>15.15</td><td>Peak</td><td>100</td><td>5</td></tr><tr><td>4</td><td>17100.00</td><td>61.11</td><td>68.20</td><td>-7.09</td><td>42.96</td><td>18.15</td><td>Peak</td><td>100</td><td>49</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	66.03	68.20	-2.17	59.44	6.59	Peak	182	292	2	11400.00	45.92	54.00	-8.08	30.77	15.15	Average	100	5	3	11400.00	57.90	74.00	-16.10	42.75	15.15	Peak	100	5	4	17100.00	61.11	68.20	-7.09	42.96	18.15	Peak	100	49
	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	66.03	68.20	-2.17	59.44	6.59	Peak	182	292																																												
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4	17100.00	61.11	68.20	-7.09	42.96	18.15	Peak	100	49																																												
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)		5785																																																																																				
Polarization	Horizontal																																																																																								
Test By :Roger Lu			Temperature(°C):23			Humidity(%):67																																																																																			
Level (dBUV/m)  Frequency (MHz) <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></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></thead><tbody><tr><td>1</td><td>5650.00</td><td>58.14</td><td>68.20</td><td>-10.06</td><td>51.82</td><td>6.32</td><td>Peak</td><td>100</td><td>333</td></tr><tr><td>2</td><td>5925.00</td><td>59.11</td><td>68.20</td><td>-9.09</td><td>52.08</td><td>7.03</td><td>Peak</td><td>100</td><td>333</td></tr><tr><td>3</td><td>11570.00</td><td>45.44</td><td>54.00</td><td>-8.56</td><td>30.06</td><td>15.38</td><td>Average</td><td>112</td><td>54</td></tr><tr><td>4</td><td>11570.00</td><td>57.87</td><td>74.00</td><td>-16.13</td><td>42.49</td><td>15.38</td><td>Peak</td><td>112</td><td>54</td></tr><tr><td>5</td><td>17355.00</td><td>59.27</td><td>68.20</td><td>-8.93</td><td>40.29</td><td>18.98</td><td>Peak</td><td>100</td><td>55</td></tr></tbody></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	5650.00	58.14	68.20	-10.06	51.82	6.32	Peak	100	333	2	5925.00	59.11	68.20	-9.09	52.08	7.03	Peak	100	333	3	11570.00	45.44	54.00	-8.56	30.06	15.38	Average	112	54	4	11570.00	57.87	74.00	-16.13	42.49	15.38	Peak	112	54	5	17355.00	59.27	68.20	-8.93	40.29	18.98	Peak	100	55
	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	5650.00	58.14	68.20	-10.06	51.82	6.32	Peak	100	333																																																																																
2	5925.00	59.11	68.20	-9.09	52.08	7.03	Peak	100	333																																																																																
3	11570.00	45.44	54.00	-8.56	30.06	15.38	Average	112	54																																																																																
4	11570.00	57.87	74.00	-16.13	42.49	15.38	Peak	112	54																																																																																
5	17355.00	59.27	68.20	-8.93	40.29	18.98	Peak	100	55																																																																																
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)																																																																																									
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Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																																																									



Modulation	HT20		Test Freq. (MHz)		5785																																																																
Polarization	Vertical																																																																				
Test By :Roger Lu			Temperature(°C):23			Humidity(%):67																																																															
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>58.17</td><td>68.20</td><td>-10.03</td><td>51.85</td><td>6.32</td><td>Peak</td><td>223</td><td>253</td></tr><tr><td>2</td><td>5925.00</td><td>59.21</td><td>68.20</td><td>-8.99</td><td>52.18</td><td>7.03</td><td>Peak</td><td>223</td><td>253</td></tr><tr><td>3</td><td>11570.00</td><td>48.72</td><td>54.00</td><td>-5.28</td><td>33.34</td><td>15.38</td><td>Average</td><td>218</td><td>10</td></tr><tr><td>4</td><td>11570.00</td><td>62.91</td><td>74.00</td><td>-11.09</td><td>47.53</td><td>15.38</td><td>Peak</td><td>218</td><td>10</td></tr><tr><td>5</td><td>17355.00</td><td>59.41</td><td>68.20</td><td>-8.79</td><td>40.43</td><td>18.98</td><td>Peak</td><td>100</td><td>95</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	58.17	68.20	-10.03	51.85	6.32	Peak	223	253	2	5925.00	59.21	68.20	-8.99	52.18	7.03	Peak	223	253	3	11570.00	48.72	54.00	-5.28	33.34	15.38	Average	218	10	4	11570.00	62.91	74.00	-11.09	47.53	15.38	Peak	218	10	5	17355.00	59.41	68.20	-8.79	40.43	18.98	Peak	100	95
	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	58.17	68.20	-10.03	51.85	6.32	Peak	223	253																																																												
2	5925.00	59.21	68.20	-8.99	52.18	7.03	Peak	223	253																																																												
3	11570.00	48.72	54.00	-5.28	33.34	15.38	Average	218	10																																																												
4	11570.00	62.91	74.00	-11.09	47.53	15.38	Peak	218	10																																																												
5	17355.00	59.41	68.20	-8.79	40.43	18.98	Peak	100	95																																																												



Configuration 4: Dipole antenna (Antenna No.1) / 5.15 ~ 5.35 GHz

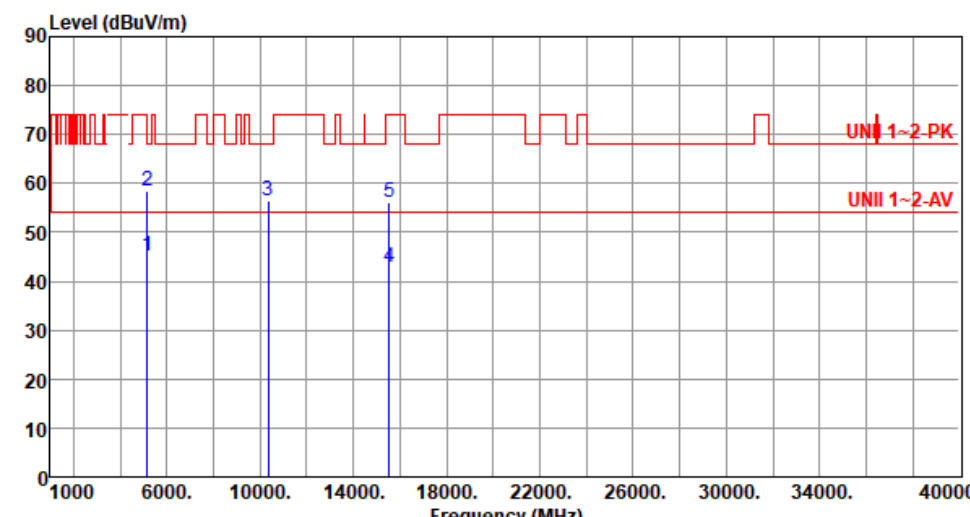
Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBuV/m)			



Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):23 Humidity(%):67			
Level (dBUV/m)			

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	11a	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :Roger Lu Temperature(°C):23 Humidity(%):67									
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	45.18	54.00	-8.82	38.87	6.31	Average	133	340
2	5150.00	58.39	74.00	-15.61	52.08	6.31	Peak	133	340
3	10360.00	56.60	68.20	-11.60	42.15	14.45	Peak	208	116
4	15540.00	42.95	54.00	-11.05	26.55	16.40	Average	100	35
5	15540.00	56.28	74.00	-17.72	39.88	16.40	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).

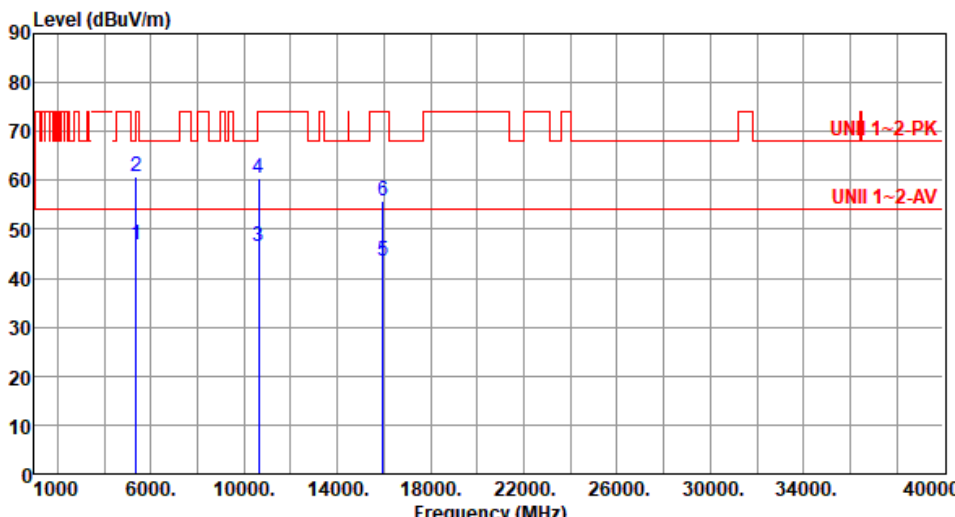


Modulation	11a	Test Freq. (MHz)	5180																																																												
Polarization	Vertical																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):67																																																															
<table><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>5150.00</td><td>47.49</td><td>54.00</td><td>-6.51</td><td>41.18</td><td>6.31</td><td>Average</td><td>168</td><td>244</td></tr><tr><td>2</td><td>5150.00</td><td>62.56</td><td>74.00</td><td>-11.44</td><td>56.25</td><td>6.31</td><td>Peak</td><td>168</td><td>244</td></tr><tr><td>3</td><td>10360.00</td><td>59.00</td><td>68.20</td><td>-9.20</td><td>44.55</td><td>14.45</td><td>Peak</td><td>325</td><td>60</td></tr><tr><td>4</td><td>15540.00</td><td>42.98</td><td>54.00</td><td>-11.02</td><td>26.58</td><td>16.40</td><td>Average</td><td>100</td><td>25</td></tr><tr><td>5</td><td>15540.00</td><td>56.06</td><td>74.00</td><td>-17.94</td><td>39.66</td><td>16.40</td><td>Peak</td><td>100</td><td>22</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	5150.00	47.49	54.00	-6.51	41.18	6.31	Average	168	244	2	5150.00	62.56	74.00	-11.44	56.25	6.31	Peak	168	244	3	10360.00	59.00	68.20	-9.20	44.55	14.45	Peak	325	60	4	15540.00	42.98	54.00	-11.02	26.58	16.40	Average	100	25	5	15540.00	56.06	74.00	-17.94	39.66	16.40	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	47.49	54.00	-6.51	41.18	6.31	Average	168	244																																																						
2	5150.00	62.56	74.00	-11.44	56.25	6.31	Peak	168	244																																																						
3	10360.00	59.00	68.20	-9.20	44.55	14.45	Peak	325	60																																																						
4	15540.00	42.98	54.00	-11.02	26.58	16.40	Average	100	25																																																						
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Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):67			
Level (dBuV/m)			



Modulation	11a	Test Freq. (MHz)	5320																																																																						
Polarization	Vertical																																																																								
Test By :Roger Lu Temperature(°C):23 Humidity(%):67																																																																									
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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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4	10640.00	60.38	74.00	-13.62	45.52	14.86	Peak	325	66																																																																
5	15960.00	43.40	54.00	-10.60	27.75	15.65	Average	100	41																																																																
6	15960.00	55.75	74.00	-18.25	40.10	15.65	Peak	100	41																																																																
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).																																																																									

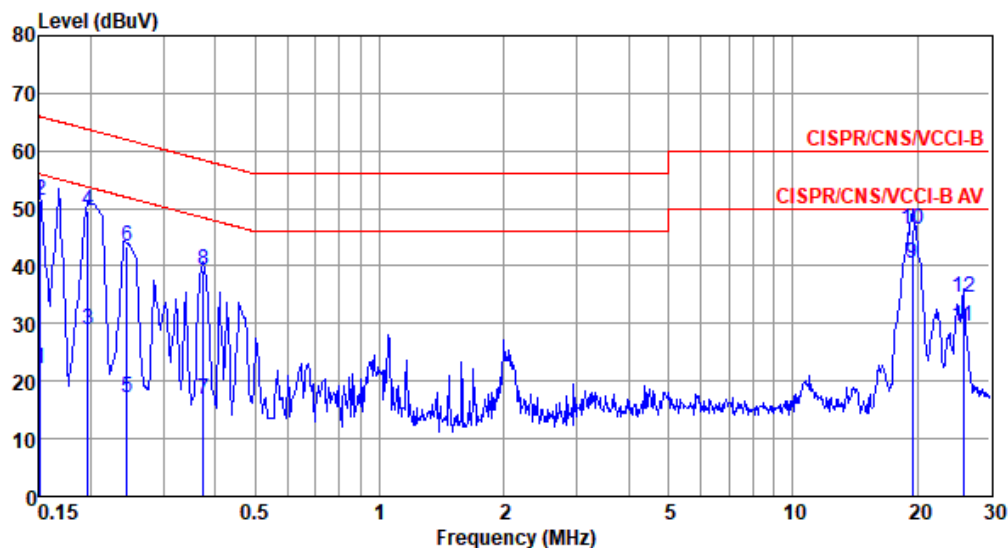


Modulation	11a	Test Freq. (MHz)	5580
Power Phase	Line		

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	0.151	22.14	55.96	-33.82	12.46	9.60	0.08	0.00	Average
2	0.151	51.30	65.96	-14.66	41.62	9.60	0.08	0.00	QP
3	0.197	28.79	53.76	-24.97	19.10	9.61	0.08	0.00	Average
4	0.197	49.69	63.76	-14.07	40.00	9.61	0.08	0.00	QP
5	0.244	17.17	51.95	-34.78	7.48	9.61	0.08	0.00	Average
6	0.244	43.38	61.95	-18.57	33.69	9.61	0.08	0.00	QP
7	0.375	16.69	48.39	-31.70	7.01	9.60	0.08	0.00	Average
8	0.375	39.36	58.39	-19.03	29.68	9.60	0.08	0.00	QP
9*	19.428	40.33	50.00	-9.67	30.09	9.59	0.65	0.00	Average
10	19.428	46.24	60.00	-13.76	36.00	9.59	0.65	0.00	QP
11	25.864	29.65	50.00	-20.35	19.44	9.50	0.71	0.00	Average
12	25.864	34.51	60.00	-25.49	24.30	9.50	0.71	0.00	QP

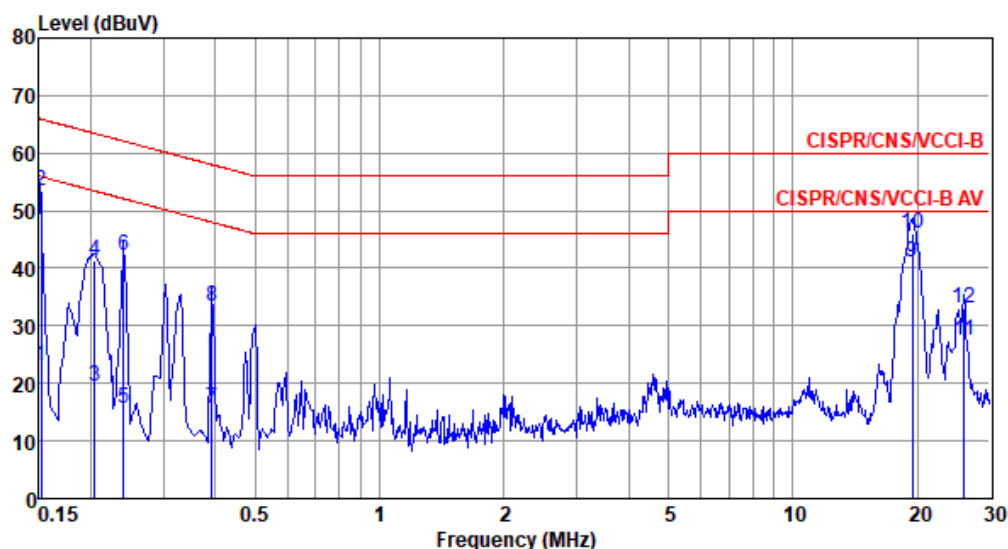
Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

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



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

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	0.152	23.03	55.91	-32.88	13.36	9.59	0.08	0.00	Average
2	0.152	53.49	65.91	-12.42	43.82	9.59	0.08	0.00	QP
3	0.204	19.55	53.45	-33.90	9.88	9.59	0.08	0.00	Average
4	0.204	41.38	63.45	-22.07	31.71	9.59	0.08	0.00	QP
5	0.240	15.79	52.08	-36.29	6.12	9.59	0.08	0.00	Average
6	0.240	42.21	62.08	-19.87	32.54	9.59	0.08	0.00	QP
7	0.393	15.52	47.99	-32.47	5.86	9.58	0.08	0.00	Average
8	0.393	33.30	57.99	-24.69	23.64	9.58	0.08	0.00	QP
9*	19.428	40.94	50.00	-9.06	30.61	9.68	0.65	0.00	Average
10	19.428	45.93	60.00	-14.07	35.60	9.68	0.65	0.00	QP
11	26.001	27.45	50.00	-22.55	17.09	9.65	0.71	0.00	Average
12	26.001	33.12	60.00	-26.88	22.76	9.65	0.71	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).

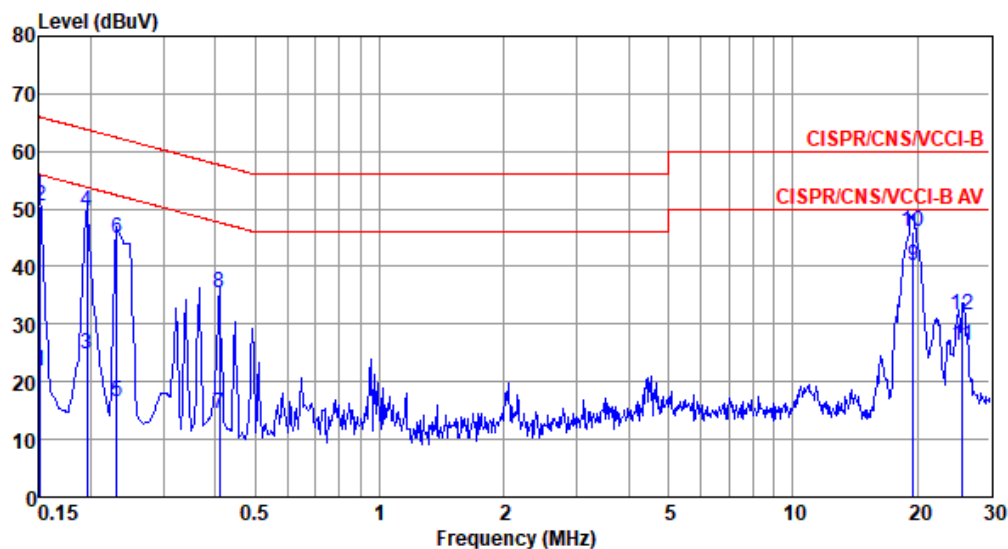


Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Line		

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	0.151	21.96	55.96	-34.00	12.28	9.60	0.08	0.00	Average
2	0.151	50.33	65.96	-15.63	40.65	9.60	0.08	0.00	QP
3	0.195	24.79	53.80	-29.01	15.10	9.61	0.08	0.00	Average
4	0.195	49.50	63.80	-14.30	39.81	9.61	0.08	0.00	QP
5	0.232	16.65	52.39	-35.74	6.96	9.61	0.08	0.00	Average
6	0.232	44.91	62.39	-17.48	35.22	9.61	0.08	0.00	QP
7	0.410	14.52	47.64	-33.12	4.84	9.60	0.08	0.00	Average
8	0.410	35.35	57.64	-22.29	25.67	9.60	0.08	0.00	QP
9*	19.532	40.17	50.00	-9.83	29.93	9.59	0.65	0.00	Average
10	19.532	46.18	60.00	-13.82	35.94	9.59	0.65	0.00	QP
11	25.727	26.19	50.00	-23.81	15.99	9.50	0.70	0.00	Average
12	25.727	31.46	60.00	-28.54	21.26	9.50	0.70	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).



AC Power Line Conducted Emissions

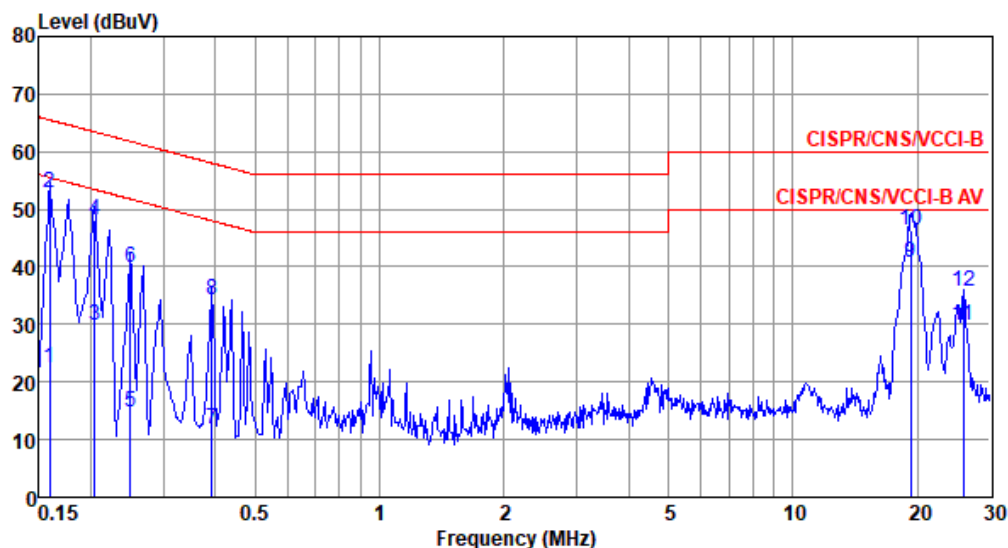
Appendix C

Modulation	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	
1	0.159	22.41	55.52	-33.11	12.74	9.59	0.08	0.00	Average
2	0.159	52.78	65.52	-12.74	43.11	9.59	0.08	0.00	QP
3	0.204	29.90	53.45	-23.55	20.23	9.59	0.08	0.00	Average
4	0.204	48.20	63.45	-15.25	38.53	9.59	0.08	0.00	QP
5	0.249	14.85	51.78	-36.93	5.18	9.59	0.08	0.00	Average
6	0.249	39.83	61.78	-21.95	30.16	9.59	0.08	0.00	QP
7	0.393	11.74	47.99	-36.25	2.08	9.58	0.08	0.00	Average
8	0.393	34.30	57.99	-23.69	24.64	9.58	0.08	0.00	QP
9*	19.326	40.80	50.00	-9.20	30.47	9.68	0.65	0.00	Average
10	19.326	46.37	60.00	-13.63	36.04	9.68	0.65	0.00	QP
11	25.864	29.81	50.00	-20.19	19.45	9.65	0.71	0.00	Average
12	25.864	35.76	60.00	-24.24	25.40	9.65	0.71	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).