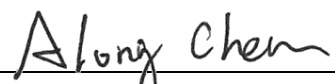


FCC C2PC Test Report

FCC ID : SQG-SU60SOMC
Equipment : 802.11ac Professional Wi-Fi + BT5.0 Module
Model No. : SU60-SOMC (453-00003)
SU60-SOMC-2G (453-00004)
(please refer to section 1.1.1 for more details.)
Brand Name : Laird Connectivity
Applicant : Laird Connectivity, LLC
Address : W66N220 Commerce Court Cedarburg WI
53012 United States Of America (Excluding
The States Of Alaska)
Standard : 47 CFR FCC Part 15.407
Received Date : Aug. 26, 2021
Tested Date : Aug. 26 ~ Sep. 03, 2021

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 may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

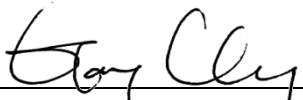

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR841101-05AN	Rev. 01	Initial issue	Oct. 05, 2021

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.402MHz 35.04 (Margin -12.77dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5470.00MHz 67.83 (Margin -0.37dB) - PK	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 20.62 5250~5350MHz: 18.73 5470~5725MHz: 20.47 5725~5850MHz: 20.28	Pass
15.203	Antenna Requirement	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 change.

This report is issued as a supplementary report to the original project no. FR841101AN. The modification is concerned with following:

- ✧ Revised brand name, Applicant and address.
- ✧ Changed U1 to RT5170A for lower suspend mode current.
- ✧ Added C87 for solve the co-location issue with LTE.

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

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
Laird Connectivity	SU60-SOMC (453-00003)	802.11ac Professional Wi-Fi + BT5.0 Module	2G/1G MCP
	SU60-SOMC-2G (453-00004)		4G/2G MCP
★ The above models, both options were assessed and SU60-SOMC-2G (453-00004) was found to be worst case and was selected for the final testing.			

1.1.2 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	36-48 [4]	1	6-54 Mbps
		5260-5320 5500-5720 5745-5825	52-64 [4] 100-144 [12] 149-165 [5]	2	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240	36-48 [4]	1	MCS 0-7
		5260-5320 5500-5720	52-64 [4] 100-144 [12]	2	MCS 0-7
		5745-5825	149-165 [5]	2	MCS 8-15
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230	38-46 [2]	1	MCS 0-7
		5270-5310 5510-5710	54-62 [2] 102-142 [6]	2	MCS 0-7
		5755-5795	151-159 [2]	2	MCS 8-15
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240	36-48 [4]	1	MCS 0-9
		5260-5320 5500-5720 5745-5825	52-64 [4] 100-144 [12] 149-165 [5]	2	
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230	38-46 [2]	1	MCS 0-9
		5270-5310 5510-5710 5755-5795	54-62 [2] 102-142 [6] 151-159 [2]	2	
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290	42 [1] 58 [1]	1	MCS 0-9
		5530~5690 5775	106-138 [3] 155 [1]	2	

Note 1: RF output power specifies that Maximum Conducted Output Power.
Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
Note 3: The device supports TX antenna diversity function. The conducted power of single chain is same for 1TX and 2TX operating mode. Therefore, Ant1 + Ant 2 configuration is chosen for final testing.

1.1.3 Antenna Details

Brand	Model	Type	Connector	Operating Frequency (MHz) / Gain (dBi)			
				5150~5250	5250~5350	5470~5725	5725~5850
LSR	001-0009	Dipole	IPEX U.FL	2			
Laird	NanoBlade-IP04	PCB Dipole	IPEX U.FL	3.9		4	4
Laird	MAF95310 Mini NanoBlade Flex	PCB Dipole	IPEX U.FL	3.38			
LSR	FlexPIFA 001-0016	PIFA	IPEX U.FL	3			
Ethertronics	WLAN_1000146	Magnetic Dipole	IPEX U.FL	3.5			
Laird	MIMO FlexPIFA Antenna	PIFA	IPEX U.FL	3			
LSR	001-0009 (with filter)	Dipole	IPEX U.FL	2			

1.1.4 Power Supply Type of Equipment under Test (EUT)

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

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC Adapter	Brand Name: I.T.E POWER SUPPLY Model Name: MU12AY120100-A1 Power Rating: I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 12Vdc, 1A Power Line: 1.48m non-shielded cable w/o core

1.1.6 Channel List

802.11a / n HT20 / ac VHT20		802.11n HT40 / ac VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	802.11ac VHT80	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.7 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	100.00%	0.00
	VHT20	100.00%	0.00
	VHT40	100.00%	0.00
	VHT80	100.00%	0.00

1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Set
11a	5180	default(14)
11a	5200	default(18)
11a	5240	default(18)
11a	5260	default(16)
11a	5300	default(16)
11a	5320	default(14)
11a	5500	default(13)
11a	5580	default(18)
11a	5700	default(12)
11a	5745	default(18)
11a	5785	default(18)
11a	5825	default(18)

Modulation Mode	Test Frequency (MHz)	Power Set
VHT20	5180	default(14)
VHT20	5200	default(18)
VHT20	5240	default(18)
VHT20	5260	default(16)
VHT20	5300	default(16)
VHT20	5320	default(14)
VHT20	5500	default(14)
VHT20	5580	default(18)
VHT20	5700	default(13)
VHT20	5745	default(18)
VHT20	5785	default(18)
VHT20	5825	default(18)

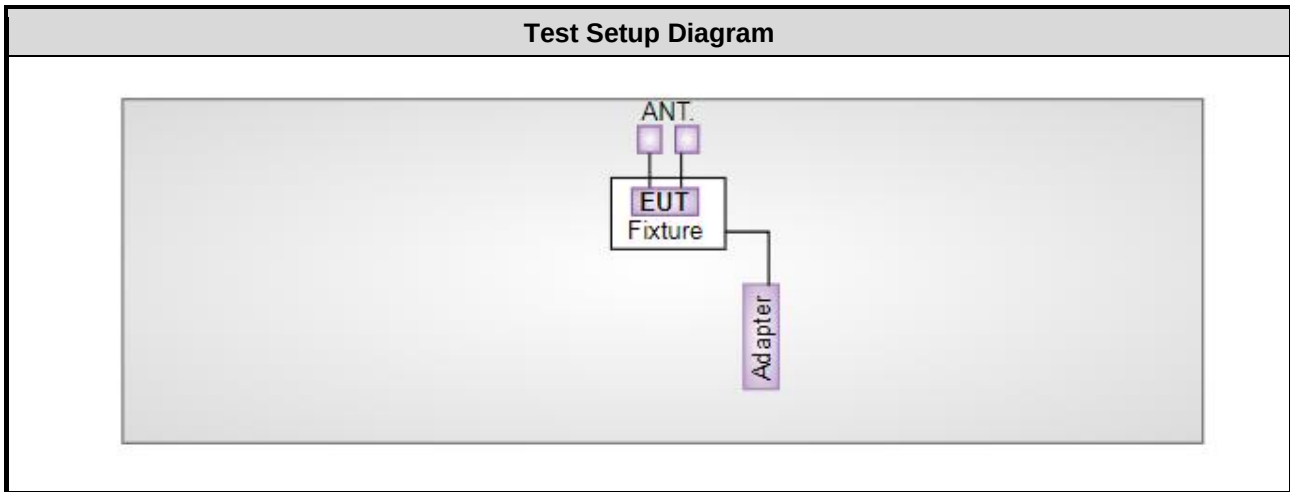
Modulation Mode	Test Frequency (MHz)	Power Set
VHT40	5190	default(13)
VHT40	5230	default(16)
VHT40	5270	default(15)
VHT40	5310	default(12)
VHT40	5510	default(13)
VHT40	5590	default(16)
VHT40	5670	default(14)
VHT40	5755	default(16)
VHT40	5795	default(16)

Modulation Mode	Test Frequency (MHz)	Power Set
VHT80	5210	default(10)
VHT80	5290	default(11)
VHT80	5530	default(11)
VHT80	5610	default(14)
VHT80	5775	default(14)

Channel that extends across the 5.725 GHz boundary

For Frequency band 5470~5725 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5720	default(18)
VHT20	5720	default(18)
VHT40	5710	default(16)
VHT80	5690	default(14)

1.2 Test Setup Chart



1.3 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Sep. 02, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 21, 2020	Oct. 20, 2021
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 chamber1 / (03CH01-WS)				
Tested Date	Aug. 26, 2021 ~ Aug. 31, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 11, 2020	Dec. 10, 2021
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Dec. 31, 2020	Dec. 30, 2021
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 26, 2020	Sep. 25, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 06, 2020	Oct. 05, 2021
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 06, 2020	Oct. 05, 2021
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 06, 2020	Oct. 05, 2021
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	Sep. 03, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 04, 2020	Nov. 03, 2021
Power Sensor	Anritsu	MA2411B	1207366	Nov. 04, 2020	Nov. 03, 2021
Measurement Software	Sporton	SENSE-15247_DTS	V5.10	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.4 Test Standards

47 CFR FCC Part 15.407

ANSI C63.10-2013

1.5 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 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
Radiated emission ≤ 1 GHz	± 3.41 dB
Radiated emission > 1 GHz	± 4.59 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, 03CH01-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.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5250 MHz / 5250~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT20	5240	MCS 0	2
Radiated Emissions ≤1GHz	VHT20	5240	MCS 0	1, 2, 3, 4
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	2
	HT20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	HT40	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Radiated Emissions >1GHz	11a	5500 / 5700	6 Mbps	1
	VHT20	5180 / 5320 / 5500 / 5700	MCS 0	
	VHT40	5190 / 5510	MCS 0	
	VHT80	5290	MCS 0	
Radiated Emissions >1GHz	11a	5320 / 5500 / 5700	6 Mbps	2
	VHT20	5180 / 5320 / 5500 / 5700	MCS 0	
	VHT40	5190 / 5670	MCS 0	
Radiated Emissions >1GHz	11a	5500 / 5700	6 Mbps	3
	VHT20	5180 / 5500 / 5700	MCS 0	
	VHT40	5190 / 5310	MCS 0	
	VHT80	5290	MCS 0	
Radiated Emissions >1GHz	11a	5180 / 5320 / 5500 / 5700	6 Mbps	4
	VHT20	5320 / 5500 / 5700	MCS 0	
	VHT40	5190	MCS 0	

NOTE:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
- 4 types antenna are used for this device, highest gain antenna of each type is selected to perform test as below test configuration.
 Configuration 1 : Dipole antenna with 2 dBi gain
 Configuration 2 : PCB Dipole antenna with 3.9 dBi (5.15~5.35GHz) / 4dBi gain (5.47~5.725GHz)
 Configuration 3 : PIFA antenna with 3dBi gain
 Configuration 4 : Magnetic Dipole with 3.5dBi gain

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT20	5745	MCS 0	2
Radiated Emissions ≤1GHz	VHT20	5745	MCS 0	1, 2, 3, 4
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	2
	HT20	5745 / 5785 / 5825	MCS 0	
	HT40	5755 / 5795	MCS 0	
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz	11a	5745	6 Mbps	1
	VHT20	5825	MCS 0	
Radiated Emissions >1GHz	VHT20	5825	MCS 0	2
	VHT40	5755	MCS 0	
Radiated Emissions >1GHz	11a	5745	6 Mbps	3
	VHT20	5825	MCS 0	
Radiated Emissions >1GHz	11a	5825	6 Mbps	4
	VHT20	5825	MCS 0	

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
2. 4 types antenna are used for this device, highest gain antenna of each type is selected to perform test as below test configuration.

Configuration 1 : Dipole antenna with 2 dBi gain

Configuration 2 : PCB Dipole antenna with 4dBi gain

Configuration 3 : PIFA antenna with 3dBi gain

Configuration 4 : Magnetic Dipole with 3.5dBi gain

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

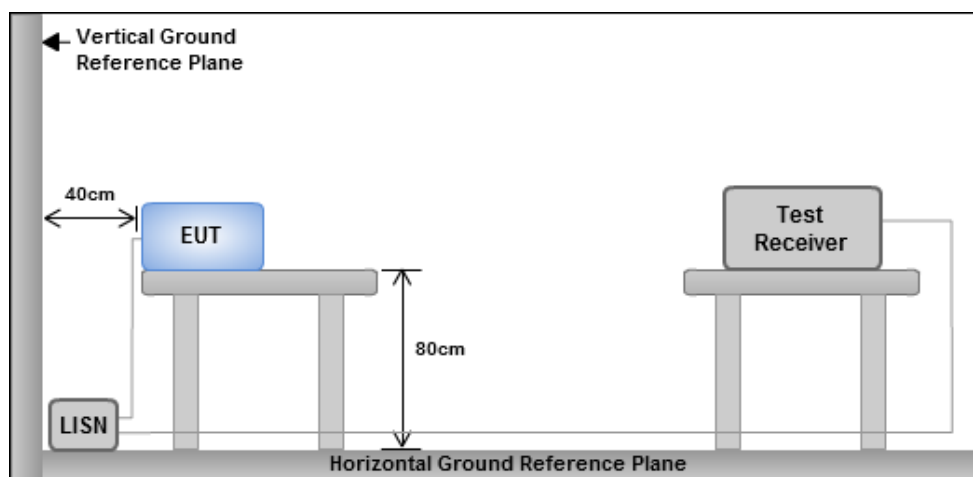
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

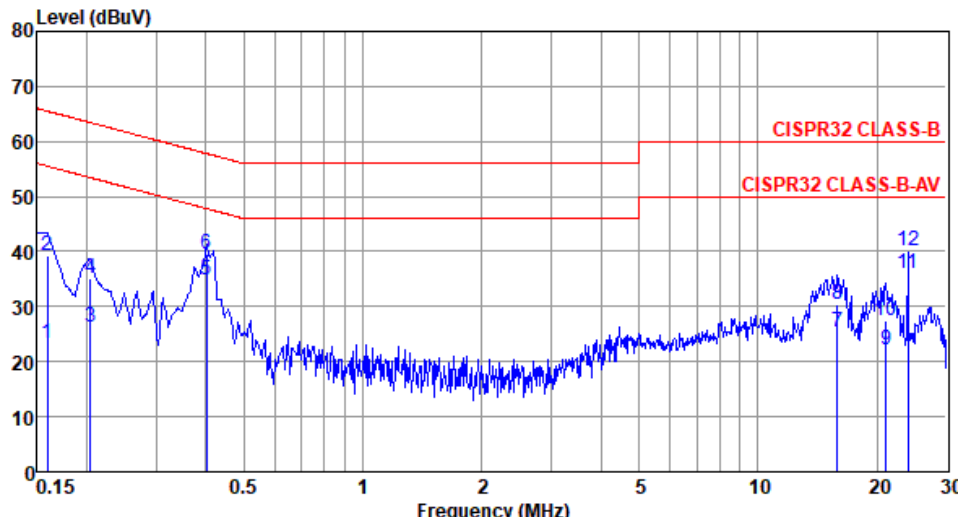
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels 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

3.1.3 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

3.1.4 Test Result of Conducted Emissions

Modulation	VHT20	Test Freq. (MHz)	5240																																																																																																																					
Power Phase	Line																																																																																																																							
Test by : Joe Liao Temperature: 22°C Humidity: 64%																																																																																																																								
Level (dBuV)  <table><tr><th></th><th>Freq MHz</th><th>Level dBuV</th><th>Limit Line dBuV</th><th>Over Limit dB</th><th>Read Level dBuV</th><th>Factor dB</th><th>Cable loss dB</th><th>Remark</th></tr><tr><td>1</td><td>0.159</td><td>23.27</td><td>55.52</td><td>-32.25</td><td>13.39</td><td>9.83</td><td>0.05</td><td>Average</td></tr><tr><td>2</td><td>0.159</td><td>39.29</td><td>65.52</td><td>-26.23</td><td>29.41</td><td>9.83</td><td>0.05</td><td>QP</td></tr><tr><td>3</td><td>0.204</td><td>26.28</td><td>53.45</td><td>-27.17</td><td>16.38</td><td>9.84</td><td>0.06</td><td>Average</td></tr><tr><td>4</td><td>0.204</td><td>35.26</td><td>63.45</td><td>-28.19</td><td>25.36</td><td>9.84</td><td>0.06</td><td>QP</td></tr><tr><td>5*</td><td>0.402</td><td>34.95</td><td>47.81</td><td>-12.86</td><td>24.98</td><td>9.89</td><td>0.08</td><td>Average</td></tr><tr><td>6</td><td>0.402</td><td>39.43</td><td>57.81</td><td>-18.38</td><td>29.46</td><td>9.89</td><td>0.08</td><td>QP</td></tr><tr><td>7</td><td>15.885</td><td>25.38</td><td>50.00</td><td>-24.62</td><td>14.56</td><td>10.21</td><td>0.61</td><td>Average</td></tr><tr><td>8</td><td>15.885</td><td>30.44</td><td>60.00</td><td>-29.56</td><td>19.62</td><td>10.21</td><td>0.61</td><td>QP</td></tr><tr><td>9</td><td>21.147</td><td>22.04</td><td>50.00</td><td>-27.96</td><td>11.07</td><td>10.29</td><td>0.68</td><td>Average</td></tr><tr><td>10</td><td>21.147</td><td>27.44</td><td>60.00</td><td>-32.56</td><td>16.47</td><td>10.29</td><td>0.68</td><td>QP</td></tr><tr><td>11</td><td>24.000</td><td>36.07</td><td>50.00</td><td>-13.93</td><td>25.01</td><td>10.37</td><td>0.69</td><td>Average</td></tr><tr><td>12</td><td>24.000</td><td>40.15</td><td>60.00</td><td>-19.85</td><td>29.09</td><td>10.37</td><td>0.69</td><td>QP</td></tr></table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Remark	1	0.159	23.27	55.52	-32.25	13.39	9.83	0.05	Average	2	0.159	39.29	65.52	-26.23	29.41	9.83	0.05	QP	3	0.204	26.28	53.45	-27.17	16.38	9.84	0.06	Average	4	0.204	35.26	63.45	-28.19	25.36	9.84	0.06	QP	5*	0.402	34.95	47.81	-12.86	24.98	9.89	0.08	Average	6	0.402	39.43	57.81	-18.38	29.46	9.89	0.08	QP	7	15.885	25.38	50.00	-24.62	14.56	10.21	0.61	Average	8	15.885	30.44	60.00	-29.56	19.62	10.21	0.61	QP	9	21.147	22.04	50.00	-27.96	11.07	10.29	0.68	Average	10	21.147	27.44	60.00	-32.56	16.47	10.29	0.68	QP	11	24.000	36.07	50.00	-13.93	25.01	10.37	0.69	Average	12	24.000	40.15	60.00	-19.85	29.09	10.37	0.69	QP
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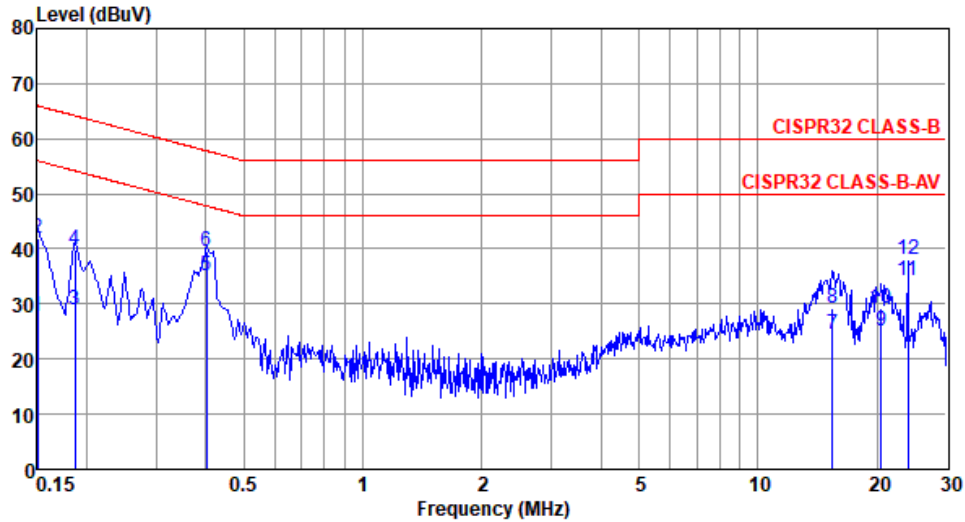
Modulation	VHT20	Test Freq. (MHz)	5240																																																																																																																					
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Modulation	VHT20	Test Freq. (MHz)	5745
Power Phase	Line		

Test by : Joe Liao

Temperature: 22°C

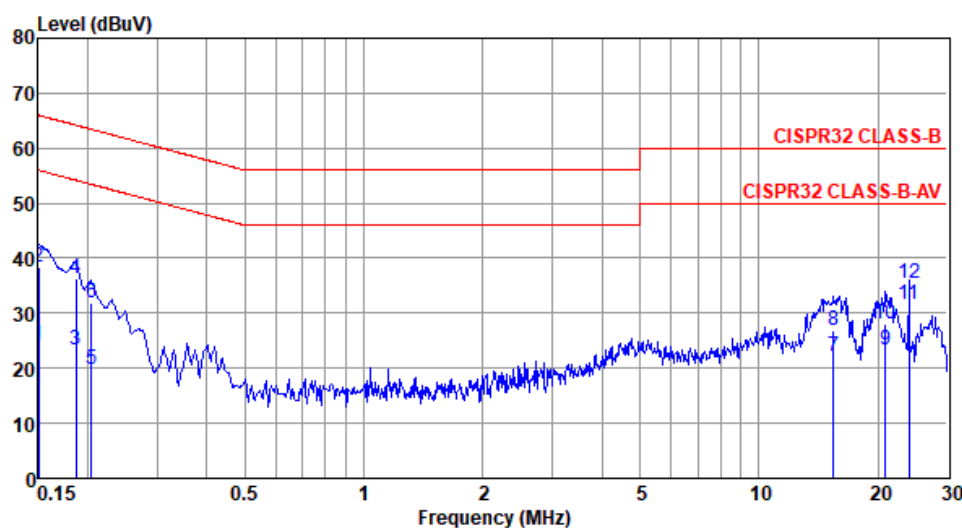
Humidity: 64%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Remark
1	0.150	27.64	56.00	-28.36	17.76	9.83	0.05	Average
2	0.150	41.81	66.00	-24.19	31.93	9.83	0.05	QP
3	0.186	28.87	54.20	-25.33	18.97	9.84	0.06	Average
4	0.186	39.78	64.20	-24.42	29.88	9.84	0.06	QP
5*	0.402	35.04	47.81	-12.77	25.07	9.89	0.08	Average
6	0.402	39.45	57.81	-18.36	29.48	9.89	0.08	QP
7	15.470	24.54	50.00	-25.46	13.73	10.20	0.61	Average
8	15.470	29.29	60.00	-30.71	18.48	10.20	0.61	QP
9	20.486	25.13	50.00	-24.87	14.18	10.28	0.67	Average
10	20.486	29.36	60.00	-30.64	18.41	10.28	0.67	QP
11	24.000	34.23	50.00	-15.77	23.17	10.37	0.69	Average
12	24.000	38.05	60.00	-21.95	26.99	10.37	0.69	QP

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

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

Modulation	VHT20	Test Freq. (MHz)	5745																																																																																																																																							
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Test by : Joe Liao Temperature: 22°C Humidity: 64%																																																																																																																																										
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3.2 RF Output Power

3.2.1 Limit of RF 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.		

3.2.2 Test Procedures

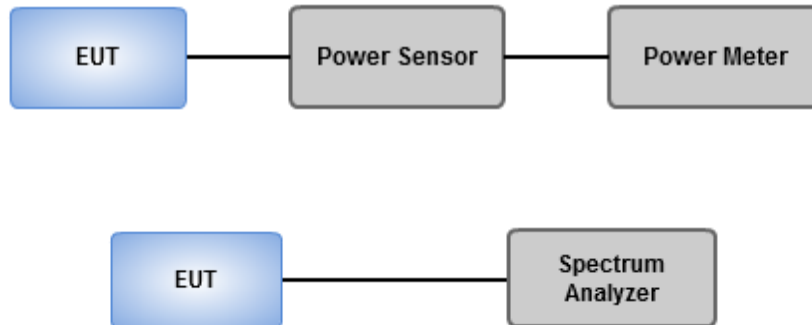
Method PM-G (Measurement using a gated RF average power meter)

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%.

3.2.3 Test Setup



3.2.4 Test Result of Maximum Conducted Output Power

Ambient Condition	24°C / 66%	Tested By	Aska Huang
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Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.58	0.11429	24.48	0.28054
802.11ac VHT20_Nss1,(MCS0)_2TX	20.62	0.11535	24.52	0.28314
802.11ac VHT40_Nss1,(MCS0)_2TX	18.59	0.07228	22.49	0.17742
802.11ac VHT80_Nss1,(MCS0)_2TX	12.83	0.01919	16.73	0.04710
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	18.70	0.07413	22.60	0.18197
802.11ac VHT20_Nss1,(MCS0)_2TX	18.73	0.07464	22.63	0.18323
802.11ac VHT40_Nss1,(MCS0)_2TX	17.69	0.05875	21.59	0.14421
802.11ac VHT80_Nss1,(MCS0)_2TX	14.19	0.02624	18.09	0.06442
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.16	0.10375	24.16	0.26062
802.11ac VHT20_Nss1,(MCS0)_2TX	20.47	0.11143	24.47	0.27990
802.11ac VHT40_Nss1,(MCS0)_2TX	18.43	0.06966	22.43	0.17498
802.11ac VHT80_Nss1,(MCS0)_2TX	16.85	0.04842	20.85	0.12162
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.10	0.10233	24.10	0.25704
802.11ac VHT20_Nss1,(MCS0)_2TX	20.28	0.10666	24.28	0.26792
802.11ac VHT40_Nss1,(MCS0)_2TX	18.31	0.06776	22.31	0.17022
802.11ac VHT80_Nss1,(MCS0)_2TX	16.78	0.04764	20.78	0.11967

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.90	13.72	12.85	16.32	24.00	20.22	30.00
5200MHz	Pass	3.90	17.84	17.01	20.46	24.00	24.36	30.00
5240MHz	Pass	3.90	18.01	17.08	20.58	24.00	24.48	30.00
5260MHz	Pass	3.90	16.09	15.25	18.70	23.91	22.60	30.00
5300MHz	Pass	3.90	16.15	15.17	18.70	23.91	22.60	30.00
5320MHz	Pass	3.90	14.17	13.22	16.73	23.90	20.63	30.00
5500MHz	Pass	4.00	12.38	12.21	15.31	23.93	19.31	30.00
5580MHz	Pass	4.00	17.14	17.16	20.16	24.00	24.16	30.00
5700MHz	Pass	4.00	11.57	11.32	14.46	23.91	18.46	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	15.65	15.47	18.57	23.87	22.57	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	9.69	9.51	12.61	30.00	16.61	36.00
5745MHz	Pass	4.00	16.68	17.43	20.08	30.00	24.08	36.00
5785MHz	Pass	4.00	16.88	17.29	20.10	30.00	24.10	36.00
5825MHz	Pass	4.00	16.76	17.22	20.01	30.00	24.01	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.90	13.82	13.08	16.48	24.00	20.38	30.00
5200MHz	Pass	3.90	17.95	17.21	20.61	24.00	24.51	30.00
5240MHz	Pass	3.90	17.99	17.2	20.62	24.00	24.52	30.00
5260MHz	Pass	3.90	16.05	15.31	18.71	24.00	22.61	30.00
5300MHz	Pass	3.90	16.08	15.33	18.73	23.99	22.63	30.00
5320MHz	Pass	3.90	14.09	13.31	16.73	23.95	20.63	30.00
5500MHz	Pass	4.00	13.27	13.28	16.29	23.99	20.29	30.00
5580MHz	Pass	4.00	17.35	17.56	20.47	24.00	24.47	30.00
5700MHz	Pass	4.00	12.48	12.41	15.46	23.99	19.46	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	15.76	15.65	18.72	22.75	22.72	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	10.3	10.22	13.27	30.00	17.27	36.00
5745MHz	Pass	4.00	16.78	17.71	20.28	30.00	24.28	36.00
5785MHz	Pass	4.00	16.95	17.45	20.22	30.00	24.22	36.00
5825MHz	Pass	4.00	17.01	17.48	20.26	30.00	24.26	36.00

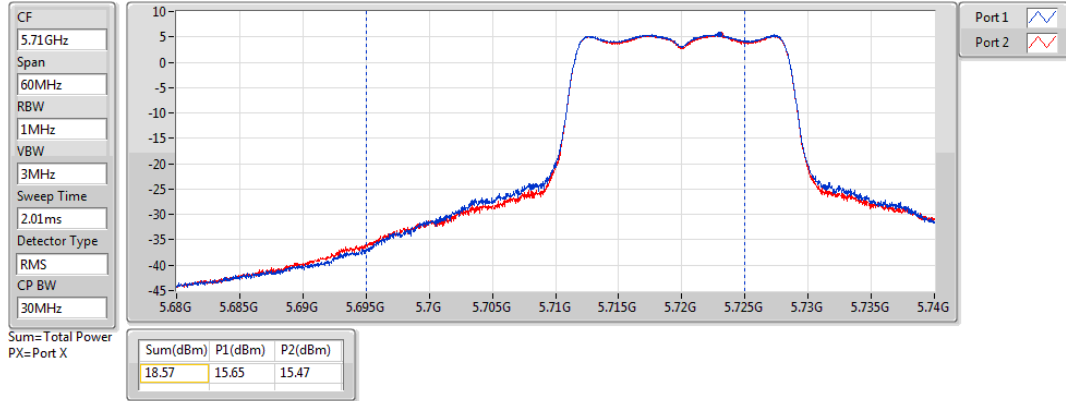
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.90	12.58	11.91	15.27	24.00	19.17	30.00
5230MHz	Pass	3.90	15.98	15.13	18.59	24.00	22.49	30.00
5270MHz	Pass	3.90	15.02	14.32	17.69	24.00	21.59	30.00
5310MHz	Pass	3.90	12.03	11.27	14.68	24.00	18.58	30.00
5510MHz	Pass	4.00	12.15	12.25	15.21	24.00	19.21	30.00
5590MHz	Pass	4.00	15.39	15.45	18.43	24.00	22.43	30.00
5670MHz	Pass	4.00	13.26	13.37	16.33	24.00	20.33	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.00	14.44	14.24	17.35	24.00	21.35	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	4.91	4.69	7.81	30.00	11.81	36.00
5755MHz	Pass	4.00	15.01	15.52	18.28	30.00	22.28	36.00
5795MHz	Pass	4.00	15.05	15.53	18.31	30.00	22.31	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.90	10.12	9.49	12.83	24.00	16.73	30.00
5290MHz	Pass	3.90	11.48	10.85	14.19	24.00	18.09	30.00
5530MHz	Pass	4.00	10.61	10.65	13.64	24.00	17.64	30.00
5610MHz	Pass	4.00	13.83	13.85	16.85	24.00	20.85	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.00	13.19	12.98	16.10	24.00	20.10	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	-0.18	-0.47	2.69	30.00	6.69	36.00
5775MHz	Pass	4.00	13.54	13.98	16.78	30.00	20.78	36.00

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

802.11a_Nss1,(6Mbps)_2TX

AV Power

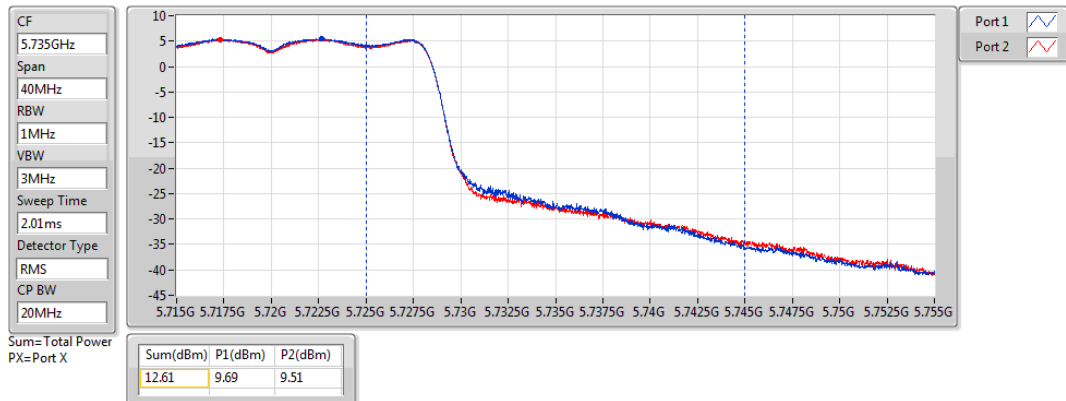
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_2TX

AV Power

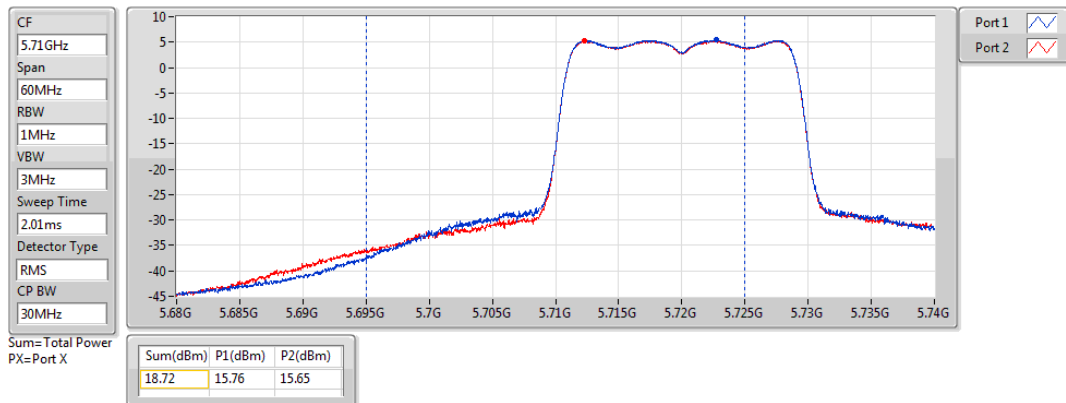
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

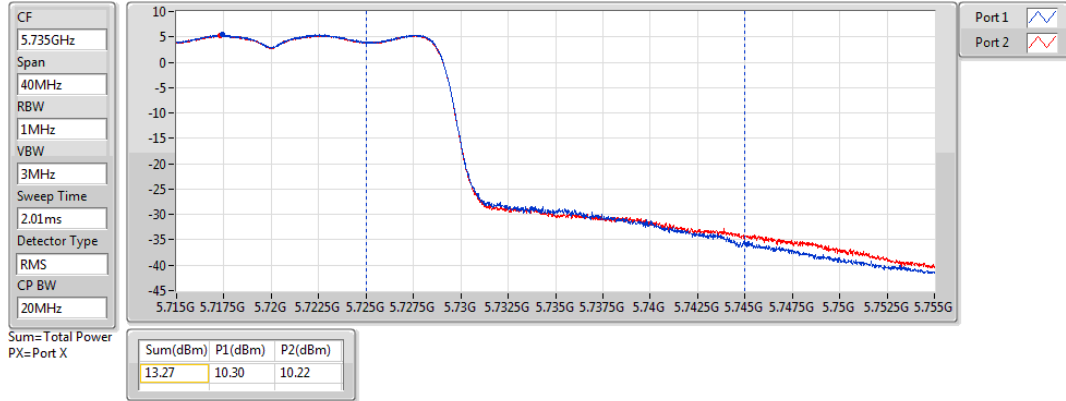
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

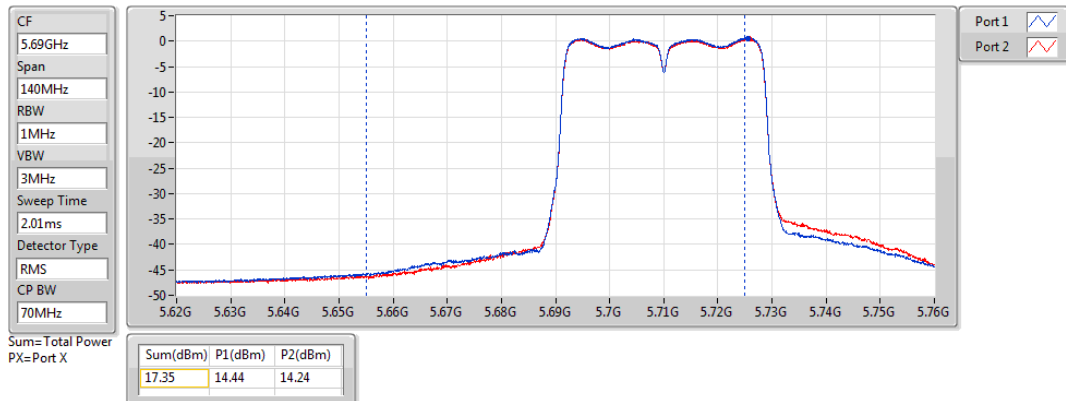
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

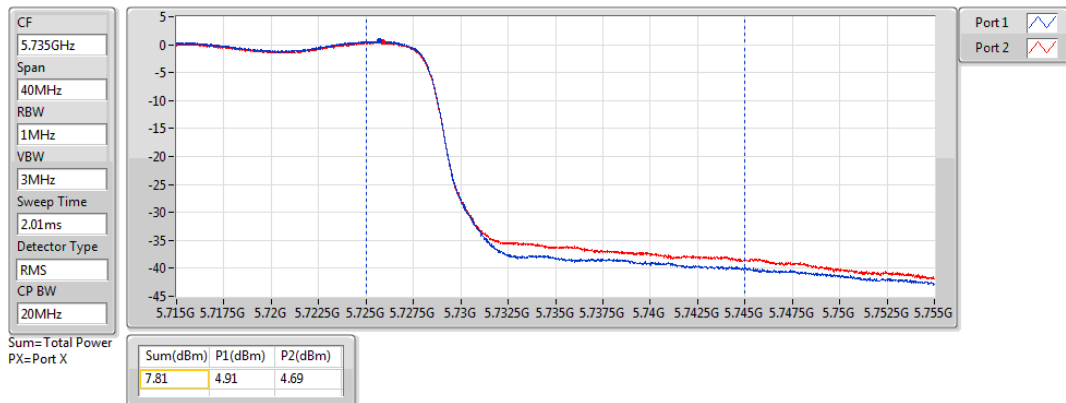
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

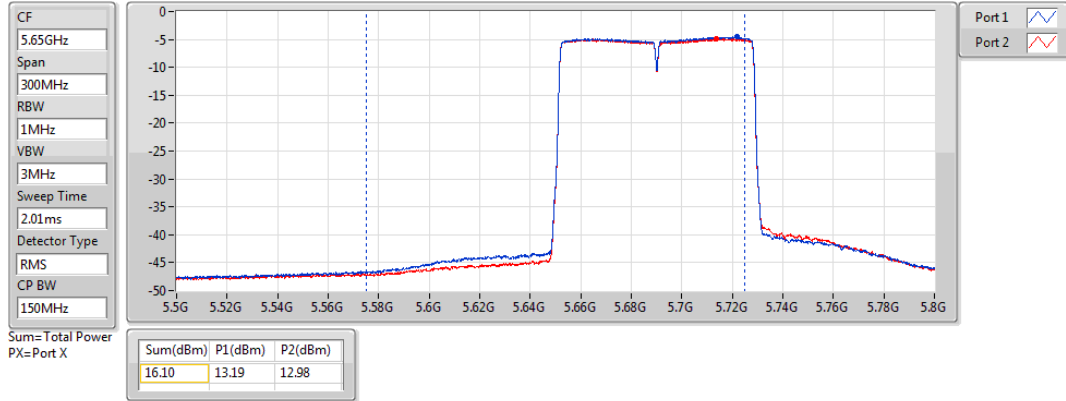
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

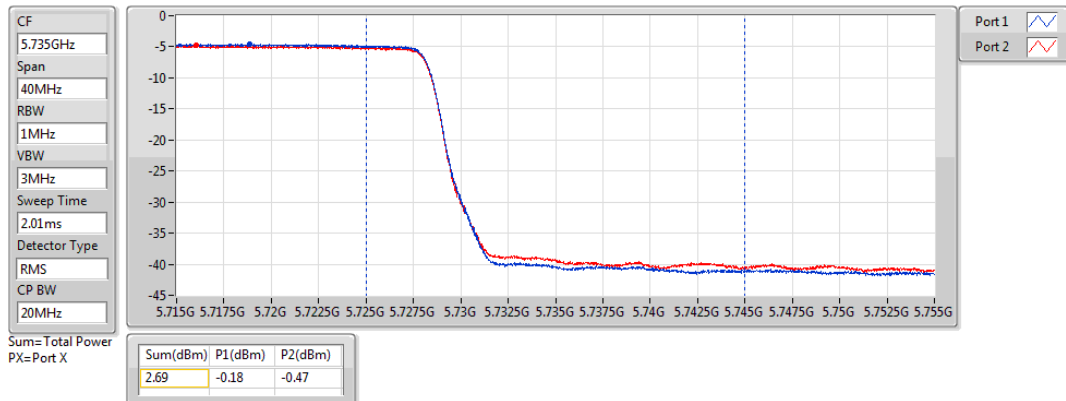
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz



3.3 Transmitter Radiated and Band Edge Emissions

3.3.1 Limit of Transmitter Radiated and Band Edge 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).

3.3.2 Test Procedures

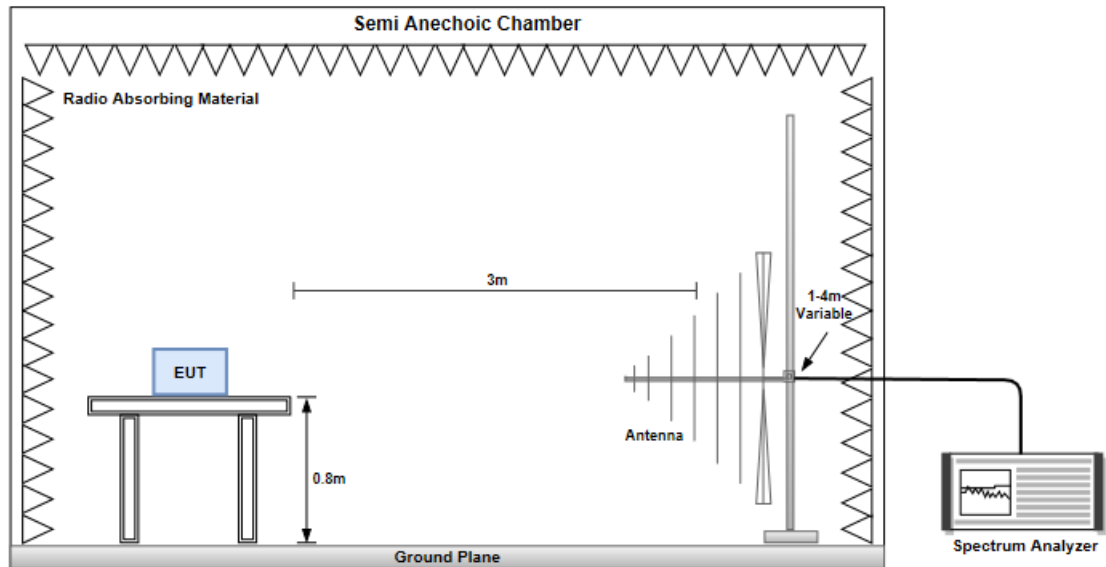
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

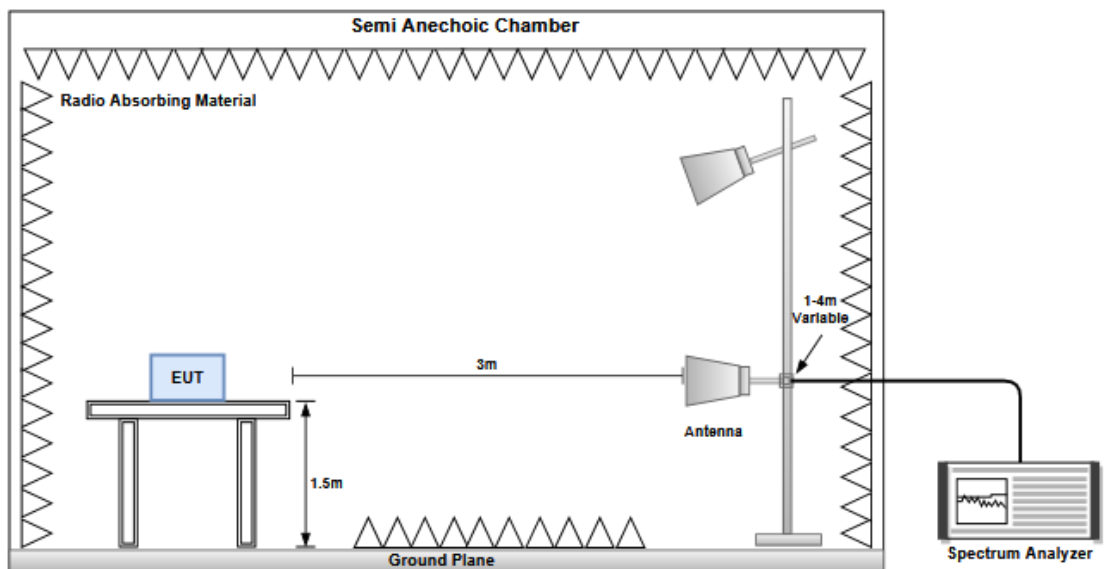
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.3.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



Test Configuration 1

3.3.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):65			
Level (dBuV/m)			

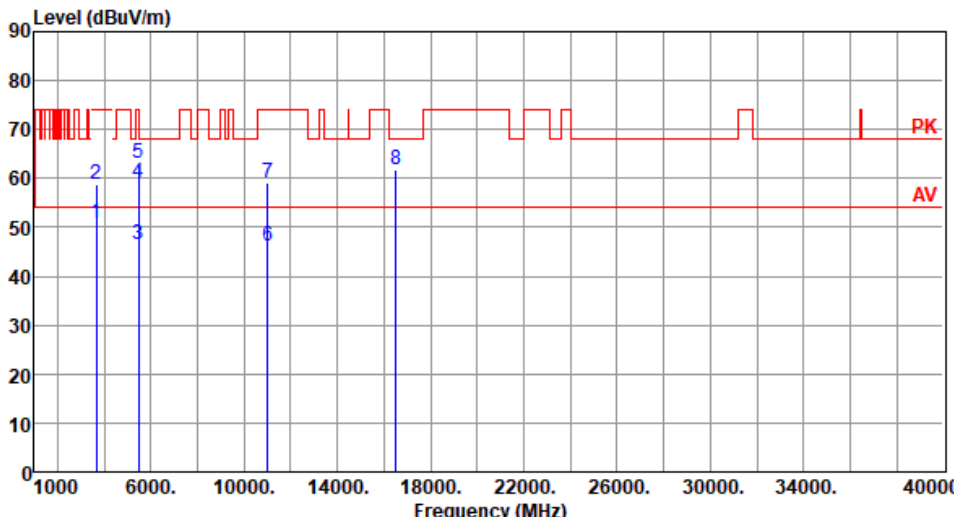
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):65			
Level (dBuV/m) <			

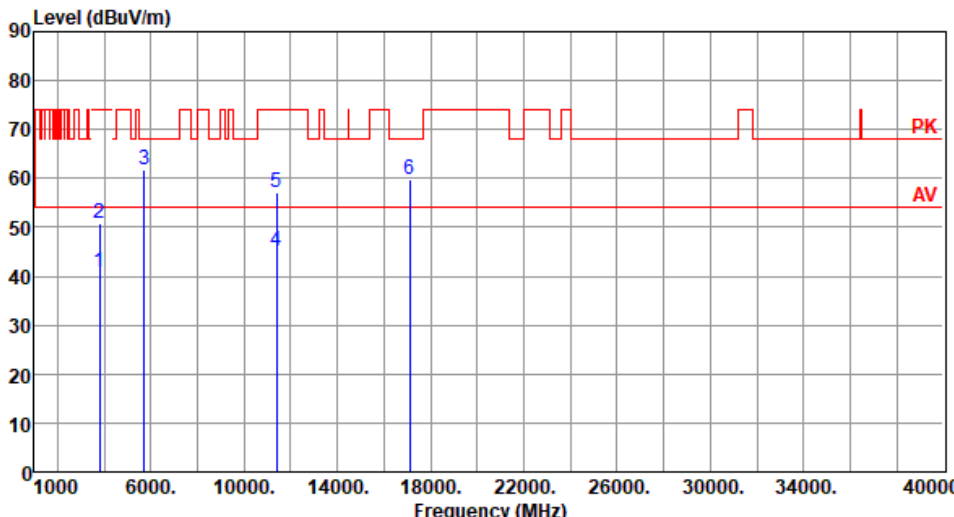
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):65			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):65			
Level (dBuV/m)			

3.3.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

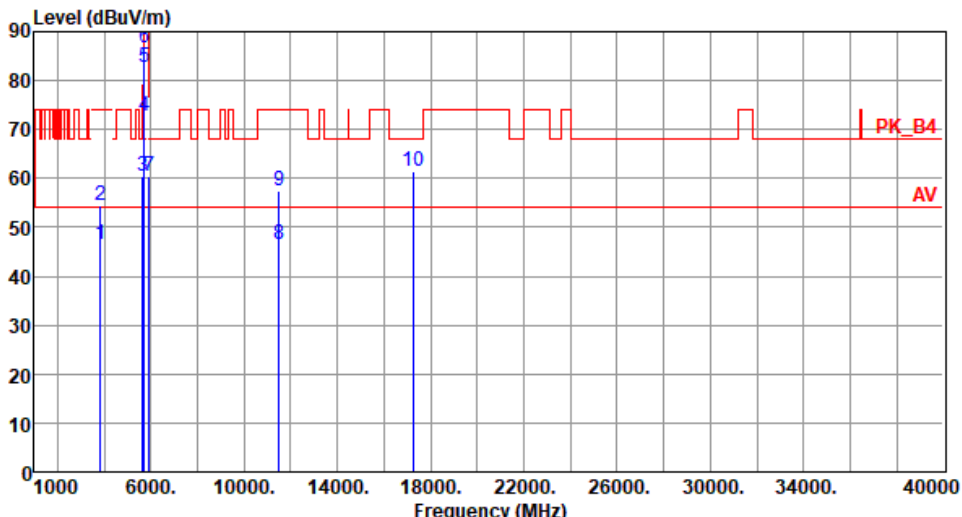
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5500																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																																																	
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><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>3666.66</td><td>50.68</td><td>54.00</td><td>-3.32</td><td>50.38</td><td>0.30</td><td>Average</td><td>211</td><td>93</td></tr><tr><td>2</td><td>3666.66</td><td>58.64</td><td>74.00</td><td>-15.36</td><td>58.34</td><td>0.30</td><td>Peak</td><td>211</td><td>93</td></tr><tr><td>3</td><td>5460.00</td><td>46.35</td><td>54.00</td><td>-7.65</td><td>41.98</td><td>4.37</td><td>Average</td><td>234</td><td>175</td></tr><tr><td>4</td><td>5460.00</td><td>59.18</td><td>74.00</td><td>-14.82</td><td>54.81</td><td>4.37</td><td>Peak</td><td>234</td><td>175</td></tr><tr><td>5</td><td>5470.00</td><td>63.04</td><td>68.20</td><td>-5.16</td><td>58.65</td><td>4.39</td><td>Peak</td><td>234</td><td>175</td></tr><tr><td>6</td><td>11000.00</td><td>46.02</td><td>54.00</td><td>-7.98</td><td>30.86</td><td>15.16</td><td>Average</td><td>320</td><td>150</td></tr><tr><td>7</td><td>11000.00</td><td>59.01</td><td>74.00</td><td>-14.99</td><td>43.85</td><td>15.16</td><td>Peak</td><td>320</td><td>150</td></tr><tr><td>8</td><td>16500.00</td><td>61.93</td><td>68.20</td><td>-6.27</td><td>45.58</td><td>16.35</td><td>Peak</td><td>288</td><td>333</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	3666.66	50.68	54.00	-3.32	50.38	0.30	Average	211	93	2	3666.66	58.64	74.00	-15.36	58.34	0.30	Peak	211	93	3	5460.00	46.35	54.00	-7.65	41.98	4.37	Average	234	175	4	5460.00	59.18	74.00	-14.82	54.81	4.37	Peak	234	175	5	5470.00	63.04	68.20	-5.16	58.65	4.39	Peak	234	175	6	11000.00	46.02	54.00	-7.98	30.86	15.16	Average	320	150	7	11000.00	59.01	74.00	-14.99	43.85	15.16	Peak	320	150	8	16500.00	61.93	68.20	-6.27	45.58	16.35	Peak	288	333
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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8	16500.00	61.93	68.20	-6.27	45.58	16.35	Peak	288	333																																																																																																								
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *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)	5700																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																													
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>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>3800.00</td><td>40.88</td><td>54.00</td><td>-13.12</td><td>40.22</td><td>0.66</td><td>Average</td><td>185</td><td>234</td></tr><tr><td>2</td><td>3800.00</td><td>50.90</td><td>74.00</td><td>-23.10</td><td>50.24</td><td>0.66</td><td>Peak</td><td>185</td><td>234</td></tr><tr><td>3</td><td>5725.00</td><td>61.66</td><td>68.20</td><td>-6.54</td><td>56.85</td><td>4.81</td><td>Peak</td><td>257</td><td>254</td></tr><tr><td>4</td><td>11400.00</td><td>45.28</td><td>54.00</td><td>-8.72</td><td>30.43</td><td>14.85</td><td>Average</td><td>100</td><td>27</td></tr><tr><td>5</td><td>11400.00</td><td>57.13</td><td>74.00</td><td>-16.87</td><td>42.28</td><td>14.85</td><td>Peak</td><td>100</td><td>27</td></tr><tr><td>6</td><td>17100.00</td><td>59.68</td><td>68.20</td><td>-8.52</td><td>42.31</td><td>17.37</td><td>Peak</td><td>100</td><td>28</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table						dBuV			cm	deg	1	3800.00	40.88	54.00	-13.12	40.22	0.66	Average	185	234	2	3800.00	50.90	74.00	-23.10	50.24	0.66	Peak	185	234	3	5725.00	61.66	68.20	-6.54	56.85	4.81	Peak	257	254	4	11400.00	45.28	54.00	-8.72	30.43	14.85	Average	100	27	5	11400.00	57.13	74.00	-16.87	42.28	14.85	Peak	100	27	6	17100.00	59.68	68.20	-8.52	42.31	17.37	Peak	100	28
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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3	5725.00	61.66	68.20	-6.54	56.85	4.81	Peak	257	254																																																																																				
4	11400.00	45.28	54.00	-8.72	30.43	14.85	Average	100	27																																																																																				
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6	17100.00	59.68	68.20	-8.52	42.31	17.37	Peak	100	28																																																																																				
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																																																													

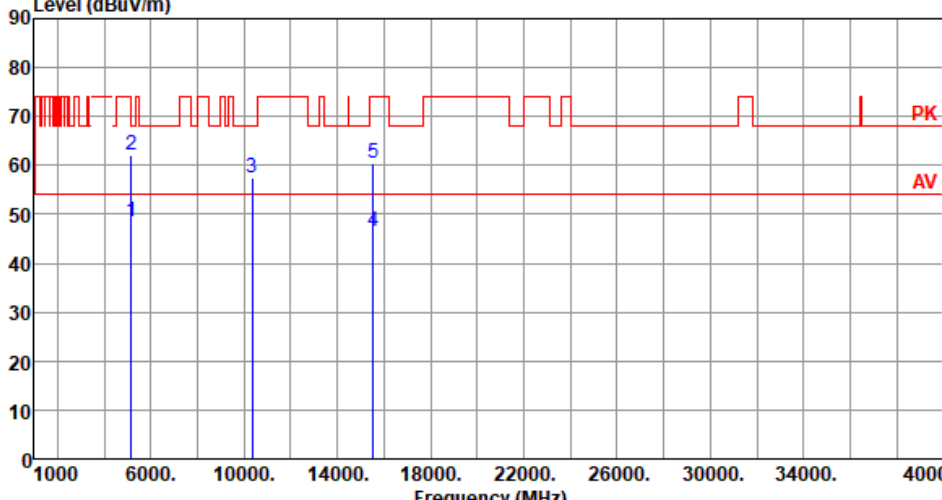
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) <			

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

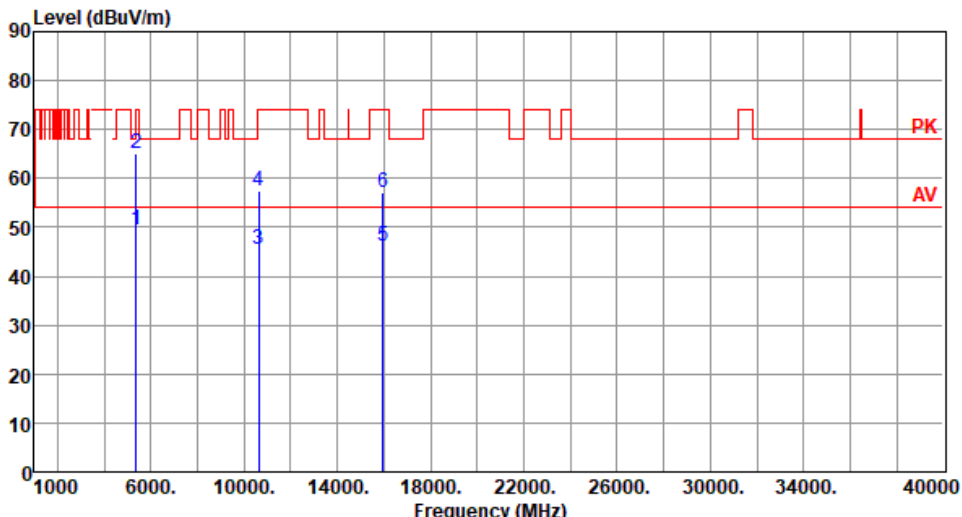
Modulation	11a	Test Freq. (MHz)	5745																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																																																	
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>3830.00</td><td>46.58</td><td>54.00</td><td>-7.42</td><td>45.77</td><td>0.81</td><td>Average</td><td>215</td><td>93</td></tr><tr><td>2</td><td>3830.00</td><td>54.58</td><td>74.00</td><td>-19.42</td><td>53.77</td><td>0.81</td><td>Peak</td><td>215</td><td>93</td></tr><tr><td>3</td><td>5650.00</td><td>60.44</td><td>68.20</td><td>-7.76</td><td>55.99</td><td>4.45</td><td>Peak</td><td>254</td><td>340</td></tr><tr><td>4</td><td>5700.00</td><td>72.86</td><td>105.20</td><td>-32.34</td><td>68.17</td><td>4.69</td><td>Peak</td><td>254</td><td>340</td></tr><tr><td>5</td><td>5720.00</td><td>82.84</td><td>110.80</td><td>-27.96</td><td>78.05</td><td>4.79</td><td>Peak</td><td>254</td><td>340</td></tr><tr><td>6</td><td>5725.00</td><td>86.53</td><td>122.20</td><td>-35.67</td><td>81.72</td><td>4.81</td><td>Peak</td><td>254</td><td>340</td></tr><tr><td>7</td><td>5925.00</td><td>60.33</td><td>68.20</td><td>-7.87</td><td>54.95</td><td>5.38</td><td>Peak</td><td>254</td><td>340</td></tr><tr><td>8</td><td>11490.00</td><td>46.45</td><td>54.00</td><td>-7.55</td><td>31.69</td><td>14.76</td><td>Average</td><td>308</td><td>153</td></tr><tr><td>9</td><td>11490.00</td><td>57.51</td><td>74.00</td><td>-16.49</td><td>42.75</td><td>14.76</td><td>Peak</td><td>308</td><td>153</td></tr><tr><td>10</td><td>17235.00</td><td>61.60</td><td>68.20</td><td>-6.60</td><td>44.05</td><td>17.55</td><td>Peak</td><td>328</td><td>318</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	3830.00	46.58	54.00	-7.42	45.77	0.81	Average	215	93	2	3830.00	54.58	74.00	-19.42	53.77	0.81	Peak	215	93	3	5650.00	60.44	68.20	-7.76	55.99	4.45	Peak	254	340	4	5700.00	72.86	105.20	-32.34	68.17	4.69	Peak	254	340	5	5720.00	82.84	110.80	-27.96	78.05	4.79	Peak	254	340	6	5725.00	86.53	122.20	-35.67	81.72	4.81	Peak	254	340	7	5925.00	60.33	68.20	-7.87	54.95	5.38	Peak	254	340	8	11490.00	46.45	54.00	-7.55	31.69	14.76	Average	308	153	9	11490.00	57.51	74.00	-16.49	42.75	14.76	Peak	308	153	10	17235.00	61.60	68.20	-6.60	44.05	17.55	Peak	328	318
	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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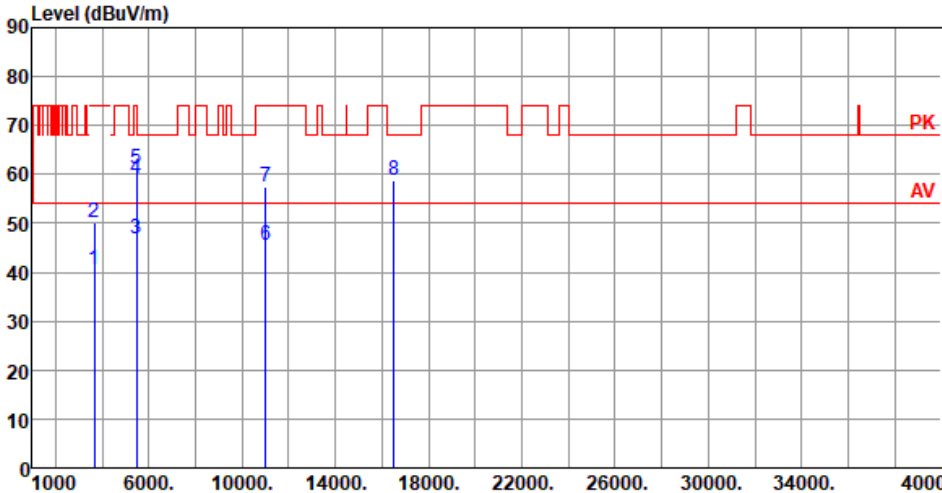
3.3.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

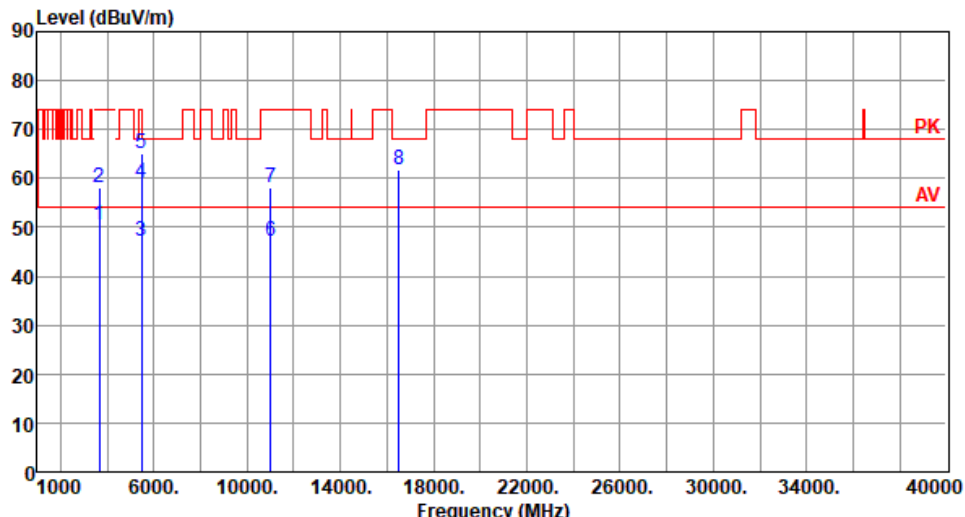
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5180																																																																																						
Polarization	Vertical																																																																																								
Test By :Akun Chung		Temperature(°C):25		Humidity(%):66																																																																																					
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><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><tr><td>1</td><td>5150.00</td><td>48.35</td><td>54.00</td><td>-5.65</td><td>43.97</td><td>4.38</td><td>Average</td><td>257</td><td>151</td></tr><tr><td>2</td><td>5150.00</td><td>62.26</td><td>74.00</td><td>-11.74</td><td>57.88</td><td>4.38</td><td>Peak</td><td>257</td><td>151</td></tr><tr><td>3</td><td>10360.00</td><td>57.30</td><td>68.20</td><td>-10.90</td><td>42.88</td><td>14.42</td><td>Peak</td><td>300</td><td>150</td></tr><tr><td>4</td><td>15540.00</td><td>46.60</td><td>54.00</td><td>-7.40</td><td>31.95</td><td>14.65</td><td>Average</td><td>303</td><td>325</td></tr><tr><td>5</td><td>15540.00</td><td>60.53</td><td>74.00</td><td>-13.47</td><td>45.88</td><td>14.65</td><td>Peak</td><td>303</td><td>325</td></tr></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	5150.00	48.35	54.00	-5.65	43.97	4.38	Average	257	151	2	5150.00	62.26	74.00	-11.74	57.88	4.38	Peak	257	151	3	10360.00	57.30	68.20	-10.90	42.88	14.42	Peak	300	150	4	15540.00	46.60	54.00	-7.40	31.95	14.65	Average	303	325	5	15540.00	60.53	74.00	-13.47	45.88	14.65	Peak	303	325
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																
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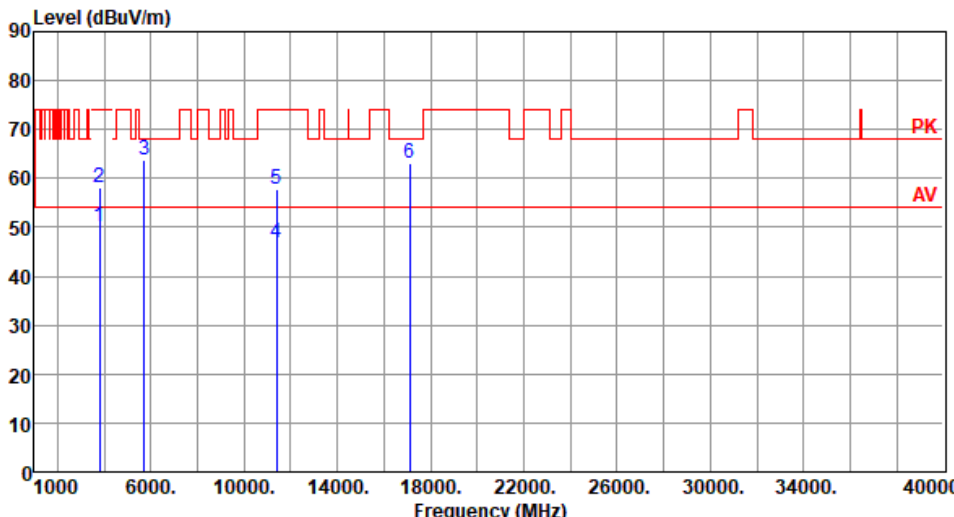
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m)			

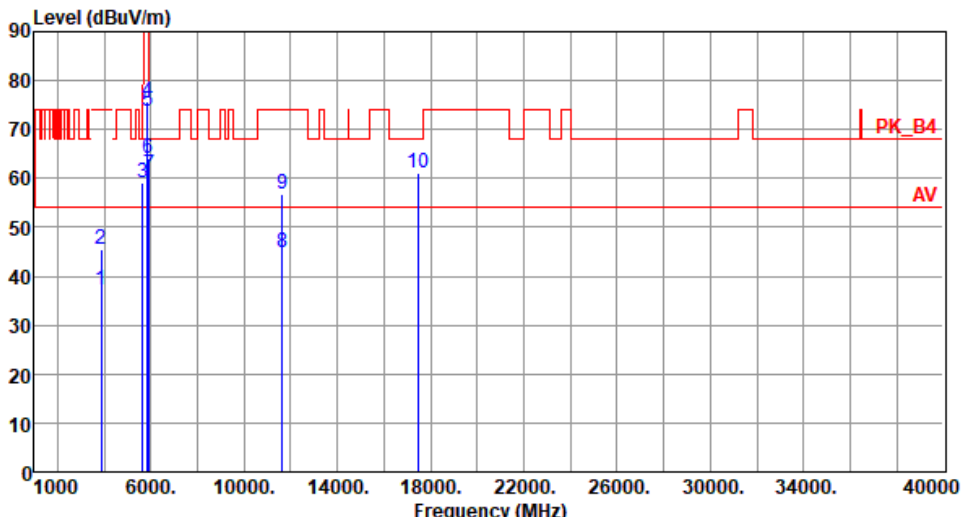
Modulation	VHT20	Test Freq. (MHz)	5320																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																									
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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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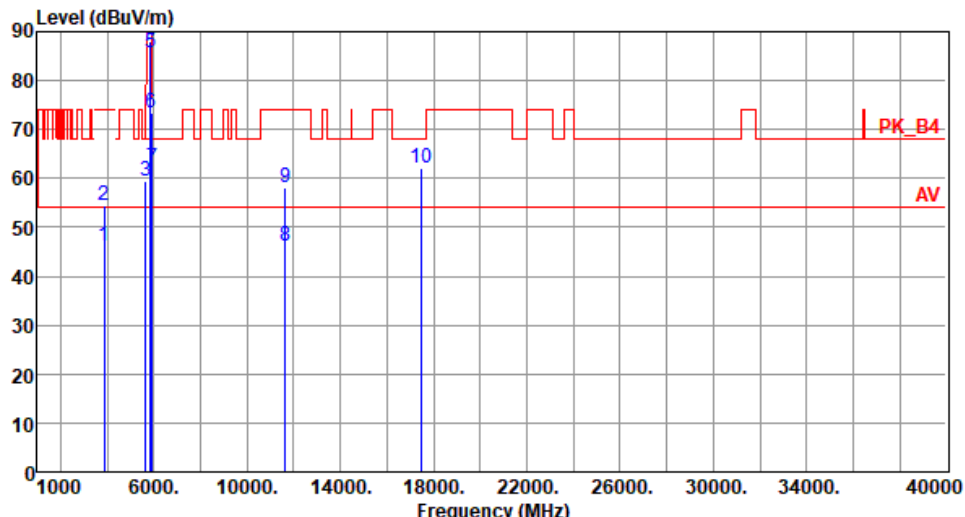
Modulation	VHT20	Test Freq. (MHz)	5500																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																													
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>3666.66</td><td>40.35</td><td>54.00</td><td>-13.65</td><td>40.05</td><td>0.30</td><td>Average</td><td>188</td><td>229</td></tr><tr><td>2</td><td>3666.66</td><td>50.15</td><td>74.00</td><td>-23.85</td><td>49.85</td><td>0.30</td><td>Peak</td><td>188</td><td>229</td></tr><tr><td>3</td><td>5460.00</td><td>46.95</td><td>54.00</td><td>-7.05</td><td>42.58</td><td>4.37</td><td>Average</td><td>263</td><td>247</td></tr><tr><td>4</td><td>5460.00</td><td>58.97</td><td>74.00</td><td>-15.03</td><td>54.60</td><td>4.37</td><td>Peak</td><td>263</td><td>247</td></tr><tr><td>5</td><td>5470.00</td><td>61.24</td><td>68.20</td><td>-6.96</td><td>56.85</td><td>4.39</td><td>Peak</td><td>263</td><td>247</td></tr><tr><td>6</td><td>11000.00</td><td>45.57</td><td>54.00</td><td>-8.43</td><td>30.41</td><td>15.16</td><td>Average</td><td>100</td><td>22</td></tr><tr><td>7</td><td>11000.00</td><td>57.59</td><td>74.00</td><td>-16.41</td><td>42.43</td><td>15.16</td><td>Peak</td><td>100</td><td>22</td></tr><tr><td>8</td><td>16500.00</td><td>58.74</td><td>68.20</td><td>-9.46</td><td>42.39</td><td>16.35</td><td>Peak</td><td>100</td><td>27</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	3666.66	40.35	54.00	-13.65	40.05	0.30	Average	188	229	2	3666.66	50.15	74.00	-23.85	49.85	0.30	Peak	188	229	3	5460.00	46.95	54.00	-7.05	42.58	4.37	Average	263	247	4	5460.00	58.97	74.00	-15.03	54.60	4.37	Peak	263	247	5	5470.00	61.24	68.20	-6.96	56.85	4.39	Peak	263	247	6	11000.00	45.57	54.00	-8.43	30.41	15.16	Average	100	22	7	11000.00	57.59	74.00	-16.41	42.43	15.16	Peak	100	22	8	16500.00	58.74	68.20	-9.46	42.39	16.35	Peak	100	27
	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	3666.66	40.35	54.00	-13.65	40.05	0.30	Average	188	229																																																																																				
2	3666.66	50.15	74.00	-23.85	49.85	0.30	Peak	188	229																																																																																				
3	5460.00	46.95	54.00	-7.05	42.58	4.37	Average	263	247																																																																																				
4	5460.00	58.97	74.00	-15.03	54.60	4.37	Peak	263	247																																																																																				
5	5470.00	61.24	68.20	-6.96	56.85	4.39	Peak	263	247																																																																																				
6	11000.00	45.57	54.00	-8.43	30.41	15.16	Average	100	22																																																																																				
7	11000.00	57.59	74.00	-16.41	42.43	15.16	Peak	100	22																																																																																				
8	16500.00	58.74	68.20	-9.46	42.39	16.35	Peak	100	27																																																																																				
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																													

Modulation	VHT20	Test Freq. (MHz)	5500																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																													
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>3666.66</td><td>50.41</td><td>54.00</td><td>-3.59</td><td>50.11</td><td>0.30</td><td>Average</td><td>209</td><td>93</td></tr><tr><td>2</td><td>3666.66</td><td>58.15</td><td>74.00</td><td>-15.85</td><td>57.85</td><td>0.30</td><td>Peak</td><td>209</td><td>93</td></tr><tr><td>3</td><td>5460.00</td><td>47.15</td><td>54.00</td><td>-6.85</td><td>42.78</td><td>4.37</td><td>Average</td><td>270</td><td>358</td></tr><tr><td>4</td><td>5460.00</td><td>59.24</td><td>74.00</td><td>-14.76</td><td>54.87</td><td>4.37</td><td>Peak</td><td>270</td><td>358</td></tr><tr><td>5</td><td>5470.00</td><td>65.08</td><td>68.20</td><td>-3.12</td><td>60.69</td><td>4.39</td><td>Peak</td><td>270</td><td>358</td></tr><tr><td>6</td><td>11000.00</td><td>47.03</td><td>54.00</td><td>-6.97</td><td>31.87</td><td>15.16</td><td>Average</td><td>308</td><td>156</td></tr><tr><td>7</td><td>11000.00</td><td>58.04</td><td>74.00</td><td>-15.96</td><td>42.88</td><td>15.16</td><td>Peak</td><td>308</td><td>156</td></tr><tr><td>8</td><td>16500.00</td><td>61.93</td><td>68.20</td><td>-6.27</td><td>45.58</td><td>16.35</td><td>Peak</td><td>306</td><td>327</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *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	3666.66	50.41	54.00	-3.59	50.11	0.30	Average	209	93	2	3666.66	58.15	74.00	-15.85	57.85	0.30	Peak	209	93	3	5460.00	47.15	54.00	-6.85	42.78	4.37	Average	270	358	4	5460.00	59.24	74.00	-14.76	54.87	4.37	Peak	270	358	5	5470.00	65.08	68.20	-3.12	60.69	4.39	Peak	270	358	6	11000.00	47.03	54.00	-6.97	31.87	15.16	Average	308	156	7	11000.00	58.04	74.00	-15.96	42.88	15.16	Peak	308	156	8	16500.00	61.93	68.20	-6.27	45.58	16.35	Peak	306	327
	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	3666.66	50.41	54.00	-3.59	50.11	0.30	Average	209	93																																																																																				
2	3666.66	58.15	74.00	-15.85	57.85	0.30	Peak	209	93																																																																																				
3	5460.00	47.15	54.00	-6.85	42.78	4.37	Average	270	358																																																																																				
4	5460.00	59.24	74.00	-14.76	54.87	4.37	Peak	270	358																																																																																				
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6	11000.00	47.03	54.00	-6.97	31.87	15.16	Average	308	156																																																																																				
7	11000.00	58.04	74.00	-15.96	42.88	15.16	Peak	308	156																																																																																				
8	16500.00	61.93	68.20	-6.27	45.58	16.35	Peak	306	327																																																																																				

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5700																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																									
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>3800.00</td><td>50.22</td><td>54.00</td><td>-3.78</td><td>49.56</td><td>0.66</td><td>Average</td><td>201</td><td>95</td></tr><tr><td>2</td><td>3800.00</td><td>58.11</td><td>74.00</td><td>-15.89</td><td>57.45</td><td>0.66</td><td>Peak</td><td>201</td><td>95</td></tr><tr><td>3</td><td>5725.00</td><td>63.81</td><td>68.20</td><td>-4.39</td><td>59.00</td><td>4.81</td><td>Peak</td><td>270</td><td>346</td></tr><tr><td>4</td><td>11400.00</td><td>46.68</td><td>54.00</td><td>-7.32</td><td>31.83</td><td>14.85</td><td>Average</td><td>315</td><td>158</td></tr><tr><td>5</td><td>11400.00</td><td>57.75</td><td>74.00</td><td>-16.25</td><td>42.90</td><td>14.85</td><td>Peak</td><td>315</td><td>158</td></tr><tr><td>6</td><td>17100.00</td><td>63.15</td><td>68.20</td><td>-5.05</td><td>45.78</td><td>17.37</td><td>Peak</td><td>306</td><td>329</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	3800.00	50.22	54.00	-3.78	49.56	0.66	Average	201	95	2	3800.00	58.11	74.00	-15.89	57.45	0.66	Peak	201	95	3	5725.00	63.81	68.20	-4.39	59.00	4.81	Peak	270	346	4	11400.00	46.68	54.00	-7.32	31.83	14.85	Average	315	158	5	11400.00	57.75	74.00	-16.25	42.90	14.85	Peak	315	158	6	17100.00	63.15	68.20	-5.05	45.78	17.37	Peak	306	329
	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	3800.00	50.22	54.00	-3.78	49.56	0.66	Average	201	95																																																																
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3	5725.00	63.81	68.20	-4.39	59.00	4.81	Peak	270	346																																																																
4	11400.00	46.68	54.00	-7.32	31.83	14.85	Average	315	158																																																																
5	11400.00	57.75	74.00	-16.25	42.90	14.85	Peak	315	158																																																																
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																																									

Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																																																		
Polarization	Horizontal																																																																																																																																				
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																																																																					
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>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>3883.33</td><td>37.05</td><td>54.00</td><td>-16.95</td><td>36.24</td><td>0.81</td><td>Average</td><td>177</td><td>230</td></tr><tr><td>2</td><td>3883.33</td><td>45.36</td><td>74.00</td><td>-28.64</td><td>44.55</td><td>0.81</td><td>Peak</td><td>177</td><td>230</td></tr><tr><td>3</td><td>5650.00</td><td>59.21</td><td>68.20</td><td>-8.99</td><td>54.76</td><td>4.45</td><td>Peak</td><td>242</td><td>249</td></tr><tr><td>4</td><td>5850.00</td><td>75.75</td><td>122.20</td><td>-46.45</td><td>70.57</td><td>5.18</td><td>Peak</td><td>242</td><td>249</td></tr><tr><td>5</td><td>5855.00</td><td>73.72</td><td>110.80</td><td>-37.08</td><td>68.53</td><td>5.19</td><td>Peak</td><td>242</td><td>249</td></tr><tr><td>6</td><td>5875.00</td><td>64.16</td><td>105.20</td><td>-41.04</td><td>58.88</td><td>5.28</td><td>Peak</td><td>242</td><td>249</td></tr><tr><td>7</td><td>5925.00</td><td>60.68</td><td>68.20</td><td>-7.52</td><td>55.30</td><td>5.38</td><td>Peak</td><td>242</td><td>249</td></tr><tr><td>8</td><td>11650.00</td><td>44.80</td><td>54.00</td><td>-9.20</td><td>30.35</td><td>14.45</td><td>Average</td><td>100</td><td>28</td></tr><tr><td>9</td><td>11650.00</td><td>56.73</td><td>74.00</td><td>-17.27</td><td>42.28</td><td>14.45</td><td>Peak</td><td>100</td><td>28</td></tr><tr><td>10</td><td>17475.00</td><td>61.15</td><td>68.20</td><td>-7.05</td><td>42.31</td><td>18.84</td><td>Peak</td><td>100</td><td>38</td></tr></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	3883.33	37.05	54.00	-16.95	36.24	0.81	Average	177	230	2	3883.33	45.36	74.00	-28.64	44.55	0.81	Peak	177	230	3	5650.00	59.21	68.20	-8.99	54.76	4.45	Peak	242	249	4	5850.00	75.75	122.20	-46.45	70.57	5.18	Peak	242	249	5	5855.00	73.72	110.80	-37.08	68.53	5.19	Peak	242	249	6	5875.00	64.16	105.20	-41.04	58.88	5.28	Peak	242	249	7	5925.00	60.68	68.20	-7.52	55.30	5.38	Peak	242	249	8	11650.00	44.80	54.00	-9.20	30.35	14.45	Average	100	28	9	11650.00	56.73	74.00	-17.27	42.28	14.45	Peak	100	28	10	17475.00	61.15	68.20	-7.05	42.31	18.84	Peak	100	38
	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	3883.33	37.05	54.00	-16.95	36.24	0.81	Average	177	230																																																																																																																												
2	3883.33	45.36	74.00	-28.64	44.55	0.81	Peak	177	230																																																																																																																												
3	5650.00	59.21	68.20	-8.99	54.76	4.45	Peak	242	249																																																																																																																												
4	5850.00	75.75	122.20	-46.45	70.57	5.18	Peak	242	249																																																																																																																												
5	5855.00	73.72	110.80	-37.08	68.53	5.19	Peak	242	249																																																																																																																												
6	5875.00	64.16	105.20	-41.04	58.88	5.28	Peak	242	249																																																																																																																												
7	5925.00	60.68	68.20	-7.52	55.30	5.38	Peak	242	249																																																																																																																												
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																																																					

Modulation	VHT20	Test Freq. (MHz)	5825						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66									
Level (dBuV/m)  Frequency (MHz)									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	3883.33	46.21	54.00	-7.79	45.40	0.81	Average	207	95
2	3883.33	54.52	74.00	-19.48	53.71	0.81	Peak	207	95
3	5650.00	59.38	68.20	-8.82	54.93	4.45	Peak	251	352
4	5850.00	88.10	122.20	-34.10	82.92	5.18	Peak	251	352
5	5855.00	85.76	110.80	-25.04	80.57	5.19	Peak	251	352
6	5875.00	73.56	105.20	-31.64	68.28	5.28	Peak	251	352
7	5925.00	62.00	68.20	-6.20	56.62	5.38	Peak	251	352
8	11650.00	46.15	54.00	-7.85	31.70	14.45	Average	301	152
9	11650.00	58.11	74.00	-15.89	43.66	14.45	Peak	301	152
10	17475.00	62.17	68.20	-6.03	43.33	18.84	Peak	309	316

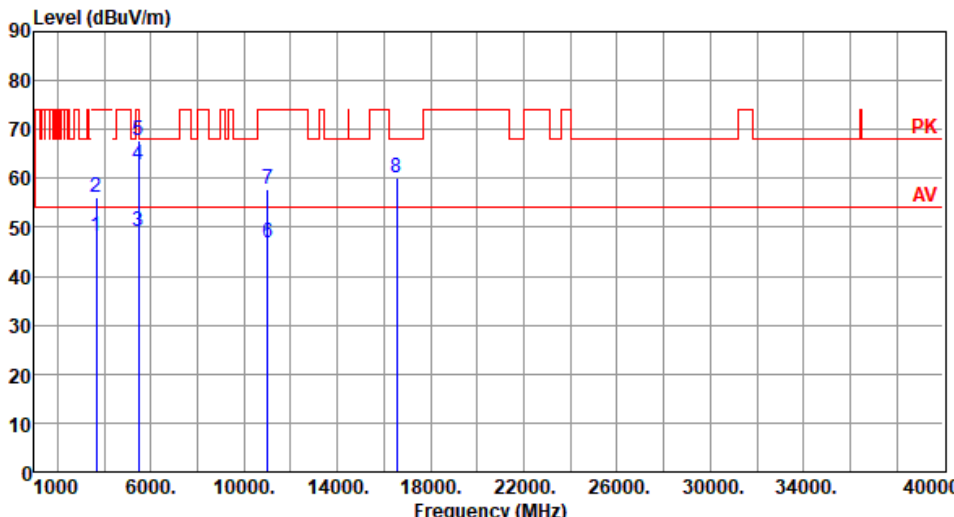
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.3.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			

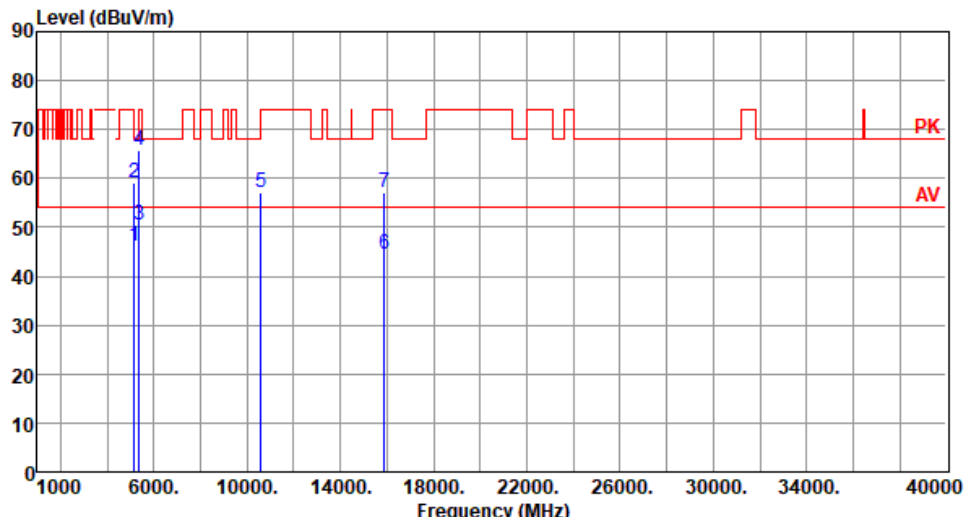
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m)			

Modulation	VHT40	Test Freq. (MHz)	5510																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																																																	
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><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><tr><td>1</td><td>3673.33</td><td>38.32</td><td>54.00</td><td>-15.68</td><td>38.02</td><td>0.30</td><td>Average</td><td>184</td><td>231</td></tr><tr><td>2</td><td>3673.33</td><td>47.88</td><td>74.00</td><td>-26.12</td><td>47.58</td><td>0.30</td><td>Peak</td><td>184</td><td>231</td></tr><tr><td>3</td><td>5460.00</td><td>47.22</td><td>54.00</td><td>-6.78</td><td>42.85</td><td>4.37</td><td>Average</td><td>239</td><td>260</td></tr><tr><td>4</td><td>5460.00</td><td>60.25</td><td>74.00</td><td>-13.75</td><td>55.88</td><td>4.37</td><td>Peak</td><td>239</td><td>260</td></tr><tr><td>5</td><td>5470.00</td><td>60.64</td><td>68.20</td><td>-7.56</td><td>56.25</td><td>4.39</td><td>Peak</td><td>239</td><td>260</td></tr><tr><td>6</td><td>11020.00</td><td>45.44</td><td>54.00</td><td>-8.56</td><td>30.34</td><td>15.10</td><td>Average</td><td>100</td><td>25</td></tr><tr><td>7</td><td>11020.00</td><td>57.40</td><td>74.00</td><td>-16.60</td><td>42.30</td><td>15.10</td><td>Peak</td><td>100</td><td>25</td></tr><tr><td>8</td><td>16530.00</td><td>58.51</td><td>68.20</td><td>-9.69</td><td>42.20</td><td>16.31</td><td>Peak</td><td>100</td><td>22</td></tr></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	3673.33	38.32	54.00	-15.68	38.02	0.30	Average	184	231	2	3673.33	47.88	74.00	-26.12	47.58	0.30	Peak	184	231	3	5460.00	47.22	54.00	-6.78	42.85	4.37	Average	239	260	4	5460.00	60.25	74.00	-13.75	55.88	4.37	Peak	239	260	5	5470.00	60.64	68.20	-7.56	56.25	4.39	Peak	239	260	6	11020.00	45.44	54.00	-8.56	30.34	15.10	Average	100	25	7	11020.00	57.40	74.00	-16.60	42.30	15.10	Peak	100	25	8	16530.00	58.51	68.20	-9.69	42.20	16.31	Peak	100	22
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																																																								
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4	5460.00	60.25	74.00	-13.75	55.88	4.37	Peak	239	260																																																																																																								
5	5470.00	60.64	68.20	-7.56	56.25	4.39	Peak	239	260																																																																																																								
6	11020.00	45.44	54.00	-8.56	30.34	15.10	Average	100	25																																																																																																								
7	11020.00	57.40	74.00	-16.60	42.30	15.10	Peak	100	25																																																																																																								
8	16530.00	58.51	68.20	-9.69	42.20	16.31	Peak	100	22																																																																																																								
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																																	

Modulation	VHT40	Test Freq. (MHz)	5510																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																													
Level (dBuV/m)  <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>3673.33</td><td>48.25</td><td>54.00</td><td>-5.75</td><td>47.95</td><td>0.30</td><td>Average</td><td>201</td><td>94</td></tr><tr><td>2</td><td>3673.33</td><td>56.20</td><td>74.00</td><td>-17.80</td><td>55.90</td><td>0.30</td><td>Peak</td><td>201</td><td>94</td></tr><tr><td>3</td><td>5460.00</td><td>49.17</td><td>54.00</td><td>-4.83</td><td>44.80</td><td>4.37</td><td>Average</td><td>287</td><td>352</td></tr><tr><td>4</td><td>5460.00</td><td>62.91</td><td>74.00</td><td>-11.09</td><td>58.54</td><td>4.37</td><td>Peak</td><td>287</td><td>352</td></tr><tr><td>5</td><td>5470.00</td><td>67.83</td><td>68.20</td><td>-0.37</td><td>63.44</td><td>4.39</td><td>Peak</td><td>287</td><td>352</td></tr><tr><td>6</td><td>11020.00</td><td>46.76</td><td>54.00</td><td>-7.24</td><td>31.66</td><td>15.10</td><td>Average</td><td>299</td><td>153</td></tr><tr><td>7</td><td>11020.00</td><td>57.76</td><td>74.00</td><td>-16.24</td><td>42.66</td><td>15.10</td><td>Peak</td><td>299</td><td>153</td></tr><tr><td>8</td><td>16530.00</td><td>60.17</td><td>68.20</td><td>-8.03</td><td>43.86</td><td>16.31</td><td>Peak</td><td>303</td><td>330</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	3673.33	48.25	54.00	-5.75	47.95	0.30	Average	201	94	2	3673.33	56.20	74.00	-17.80	55.90	0.30	Peak	201	94	3	5460.00	49.17	54.00	-4.83	44.80	4.37	Average	287	352	4	5460.00	62.91	74.00	-11.09	58.54	4.37	Peak	287	352	5	5470.00	67.83	68.20	-0.37	63.44	4.39	Peak	287	352	6	11020.00	46.76	54.00	-7.24	31.66	15.10	Average	299	153	7	11020.00	57.76	74.00	-16.24	42.66	15.10	Peak	299	153	8	16530.00	60.17	68.20	-8.03	43.86	16.31	Peak	303	330
	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	3673.33	48.25	54.00	-5.75	47.95	0.30	Average	201	94																																																																																				
2	3673.33	56.20	74.00	-17.80	55.90	0.30	Peak	201	94																																																																																				
3	5460.00	49.17	54.00	-4.83	44.80	4.37	Average	287	352																																																																																				
4	5460.00	62.91	74.00	-11.09	58.54	4.37	Peak	287	352																																																																																				
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																													

3.3.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5290																																																																								
Polarization	Vertical																																																																										
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																											
																																																																											
	<table><tr><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>46.25</td><td>54.00</td><td>-7.75</td><td>41.87</td><td>4.38</td><td>Average</td><td>261 146</td></tr><tr><td>2</td><td>5150.00</td><td>59.13</td><td>74.00</td><td>-14.87</td><td>54.75</td><td>4.38</td><td>Peak</td><td>261 146</td></tr><tr><td>3</td><td>5350.00</td><td>50.36</td><td>54.00</td><td>-3.64</td><td>46.39</td><td>3.97</td><td>Average</td><td>261 146</td></tr><tr><td>4</td><td>5350.00</td><td>65.63</td><td>74.00</td><td>-8.37</td><td>61.66</td><td>3.97</td><td>Peak</td><td>261 146</td></tr><tr><td>5</td><td>10580.00</td><td>57.15</td><td>68.20</td><td>-11.05</td><td>42.58</td><td>14.57</td><td>Peak</td><td>100 156</td></tr><tr><td>6</td><td>15870.00</td><td>44.59</td><td>54.00</td><td>-9.41</td><td>30.40</td><td>14.19</td><td>Average</td><td>100 326</td></tr><tr><td>7</td><td>15870.00</td><td>57.15</td><td>74.00</td><td>-16.85</td><td>42.96</td><td>14.19</td><td>Peak</td><td>100 326</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	46.25	54.00	-7.75	41.87	4.38	Average	261 146	2	5150.00	59.13	74.00	-14.87	54.75	4.38	Peak	261 146	3	5350.00	50.36	54.00	-3.64	46.39	3.97	Average	261 146	4	5350.00	65.63	74.00	-8.37	61.66	3.97	Peak	261 146	5	10580.00	57.15	68.20	-11.05	42.58	14.57	Peak	100 156	6	15870.00	44.59	54.00	-9.41	30.40	14.19	Average	100 326	7	15870.00	57.15	74.00	-16.85	42.96	14.19	Peak	100 326		
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	46.25	54.00	-7.75	41.87	4.38	Average	261 146																																																																			
2	5150.00	59.13	74.00	-14.87	54.75	4.38	Peak	261 146																																																																			
3	5350.00	50.36	54.00	-3.64	46.39	3.97	Average	261 146																																																																			
4	5350.00	65.63	74.00	-8.37	61.66	3.97	Peak	261 146																																																																			
5	10580.00	57.15	68.20	-11.05	42.58	14.57	Peak	100 156																																																																			
6	15870.00	44.59	54.00	-9.41	30.40	14.19	Average	100 326																																																																			
7	15870.00	57.15	74.00	-16.85	42.96	14.19	Peak	100 326																																																																			
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																											

Test Configuration 2

3.3.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

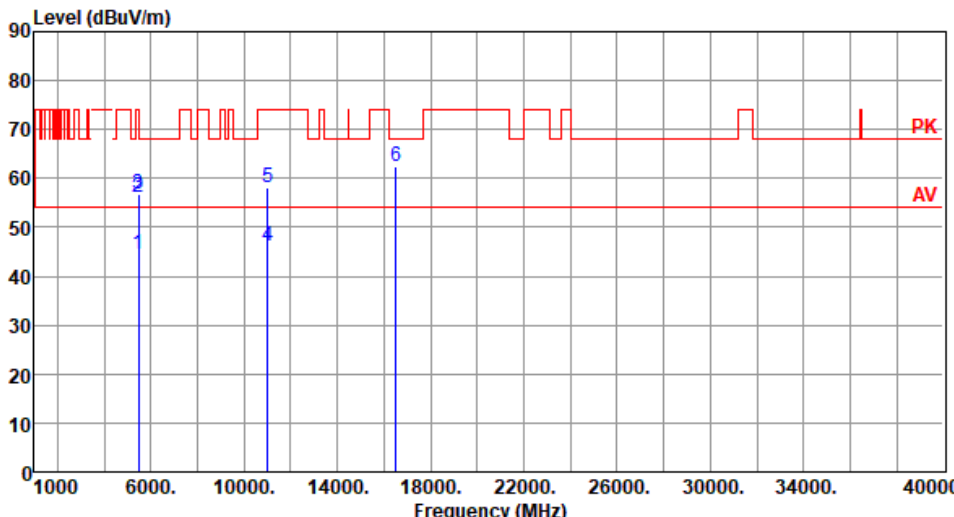
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

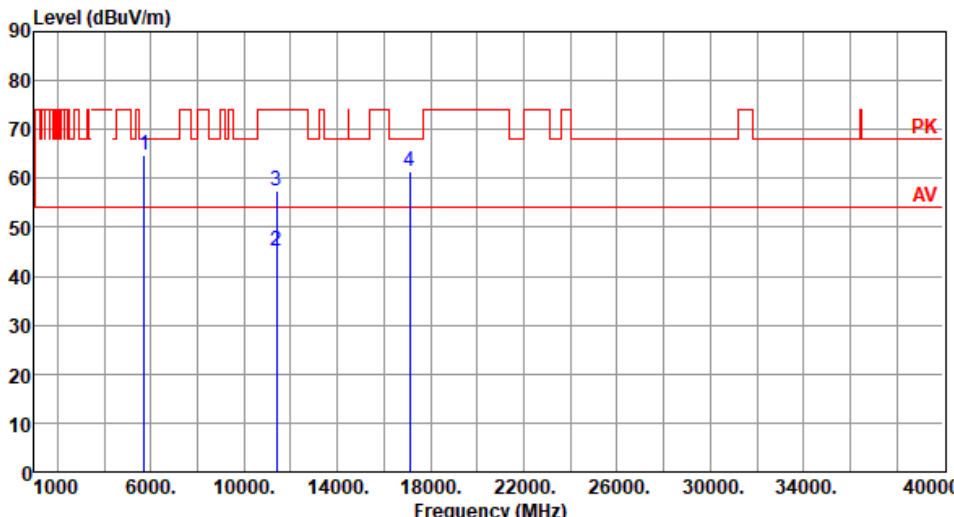
3.3.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

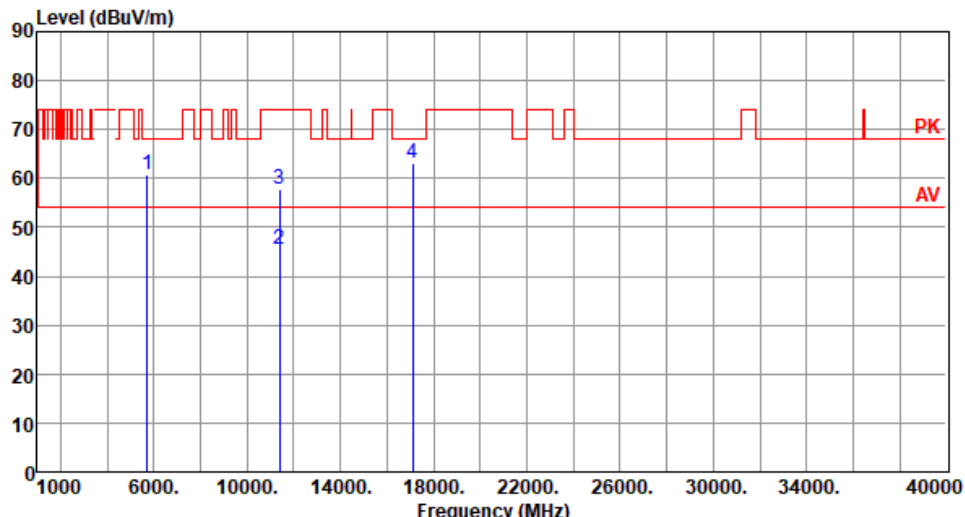
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) <			

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) </			

Modulation	11a	Test Freq. (MHz)	5500																																																																																										
Polarization	Vertical																																																																																												
Test By :Roger Lu Temperature(°C):25 Humidity(%):66																																																																																													
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><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><tr><td>1</td><td>5460.00</td><td>44.42</td><td>54.00</td><td>-9.58</td><td>40.05</td><td>4.37</td><td>Average</td><td>110</td><td>125</td></tr><tr><td>2</td><td>5460.00</td><td>56.26</td><td>74.00</td><td>-17.74</td><td>51.89</td><td>4.37</td><td>Peak</td><td>110</td><td>125</td></tr><tr><td>3</td><td>5470.00</td><td>56.84</td><td>68.20</td><td>-11.36</td><td>52.45</td><td>4.39</td><td>Peak</td><td>110</td><td>125</td></tr><tr><td>4</td><td>11000.00</td><td>46.04</td><td>54.00</td><td>-7.96</td><td>30.88</td><td>15.16</td><td>Average</td><td>100</td><td>257</td></tr><tr><td>5</td><td>11000.00</td><td>58.05</td><td>74.00</td><td>-15.95</td><td>42.89</td><td>15.16</td><td>Peak</td><td>100</td><td>257</td></tr><tr><td>6</td><td>16500.00</td><td>62.35</td><td>68.20</td><td>-5.85</td><td>46.00</td><td>16.35</td><td>Peak</td><td>250</td><td>251</td></tr></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	5460.00	44.42	54.00	-9.58	40.05	4.37	Average	110	125	2	5460.00	56.26	74.00	-17.74	51.89	4.37	Peak	110	125	3	5470.00	56.84	68.20	-11.36	52.45	4.39	Peak	110	125	4	11000.00	46.04	54.00	-7.96	30.88	15.16	Average	100	257	5	11000.00	58.05	74.00	-15.95	42.89	15.16	Peak	100	257	6	16500.00	62.35	68.20	-5.85	46.00	16.35	Peak	250	251
	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	5460.00	44.42	54.00	-9.58	40.05	4.37	Average	110	125																																																																																				
2	5460.00	56.26	74.00	-17.74	51.89	4.37	Peak	110	125																																																																																				
3	5470.00	56.84	68.20	-11.36	52.45	4.39	Peak	110	125																																																																																				
4	11000.00	46.04	54.00	-7.96	30.88	15.16	Average	100	257																																																																																				
5	11000.00	58.05	74.00	-15.95	42.89	15.16	Peak	100	257																																																																																				
6	16500.00	62.35	68.20	-5.85	46.00	16.35	Peak	250	251																																																																																				
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *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)	5700																																																		
Polarization	Horizontal																																																				
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																					
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>5725.00</td><td>64.61</td><td>68.20</td><td>-3.59</td><td>59.80</td><td>4.81</td><td>Peak</td><td>378</td><td>349</td></tr><tr><td>2</td><td>11400.00</td><td>45.29</td><td>54.00</td><td>-8.71</td><td>30.44</td><td>14.85</td><td>Average</td><td>100</td><td>184</td></tr><tr><td>3</td><td>11400.00</td><td>57.32</td><td>74.00</td><td>-16.68</td><td>42.47</td><td>14.85</td><td>Peak</td><td>100</td><td>184</td></tr><tr><td>4</td><td>17100.00</td><td>61.60</td><td>68.20</td><td>-6.60</td><td>44.23</td><td>17.37</td><td>Peak</td><td>186</td><td>189</td></tr></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *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	5725.00	64.61	68.20	-3.59	59.80	4.81	Peak	378	349	2	11400.00	45.29	54.00	-8.71	30.44	14.85	Average	100	184	3	11400.00	57.32	74.00	-16.68	42.47	14.85	Peak	100	184	4	17100.00	61.60	68.20	-6.60	44.23	17.37	Peak	186	189
	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	64.61	68.20	-3.59	59.80	4.81	Peak	378	349																																												
2	11400.00	45.29	54.00	-8.71	30.44	14.85	Average	100	184																																												
3	11400.00	57.32	74.00	-16.68	42.47	14.85	Peak	100	184																																												
4	17100.00	61.60	68.20	-6.60	44.23	17.37	Peak	186	189																																												

Modulation	11a	Test Freq. (MHz)	5700																																																		
Polarization	Vertical																																																				
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																					
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>5725.00</td><td>60.69</td><td>68.20</td><td>-7.51</td><td>55.88</td><td>4.81</td><td>Peak</td><td>115</td><td>119</td></tr><tr><td>2</td><td>11400.00</td><td>45.65</td><td>54.00</td><td>-8.35</td><td>30.80</td><td>14.85</td><td>Average</td><td>100</td><td>253</td></tr><tr><td>3</td><td>11400.00</td><td>57.71</td><td>74.00</td><td>-16.29</td><td>42.86</td><td>14.85</td><td>Peak</td><td>100</td><td>253</td></tr><tr><td>4</td><td>17100.00</td><td>63.20</td><td>68.20</td><td>-5.00</td><td>45.83</td><td>17.37</td><td>Peak</td><td>251</td><td>256</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *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	5725.00	60.69	68.20	-7.51	55.88	4.81	Peak	115	119	2	11400.00	45.65	54.00	-8.35	30.80	14.85	Average	100	253	3	11400.00	57.71	74.00	-16.29	42.86	14.85	Peak	100	253	4	17100.00	63.20	68.20	-5.00	45.83	17.37	Peak	251	256
	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	60.69	68.20	-7.51	55.88	4.81	Peak	115	119																																												
2	11400.00	45.65	54.00	-8.35	30.80	14.85	Average	100	253																																												
3	11400.00	57.71	74.00	-16.29	42.86	14.85	Peak	100	253																																												
4	17100.00	63.20	68.20	-5.00	45.83	17.37	Peak	251	256																																												

3.3.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			

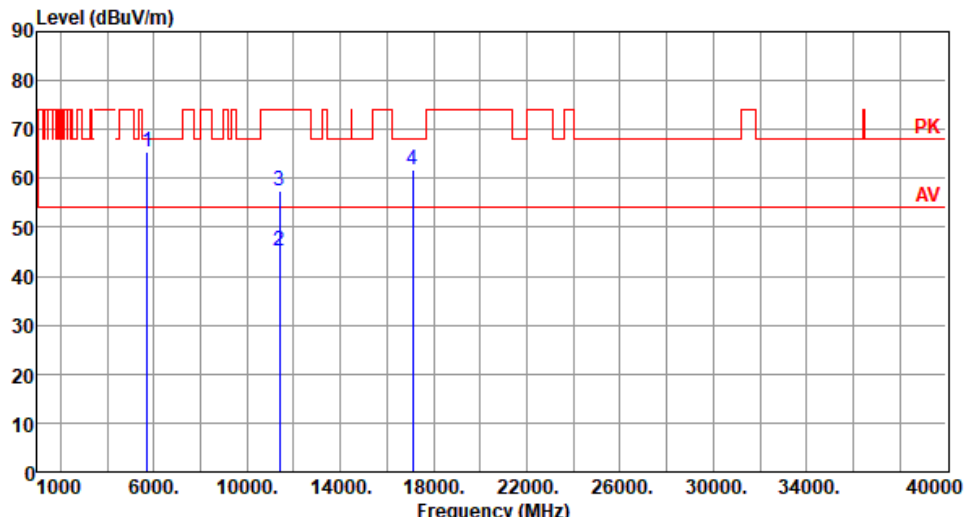
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m)			

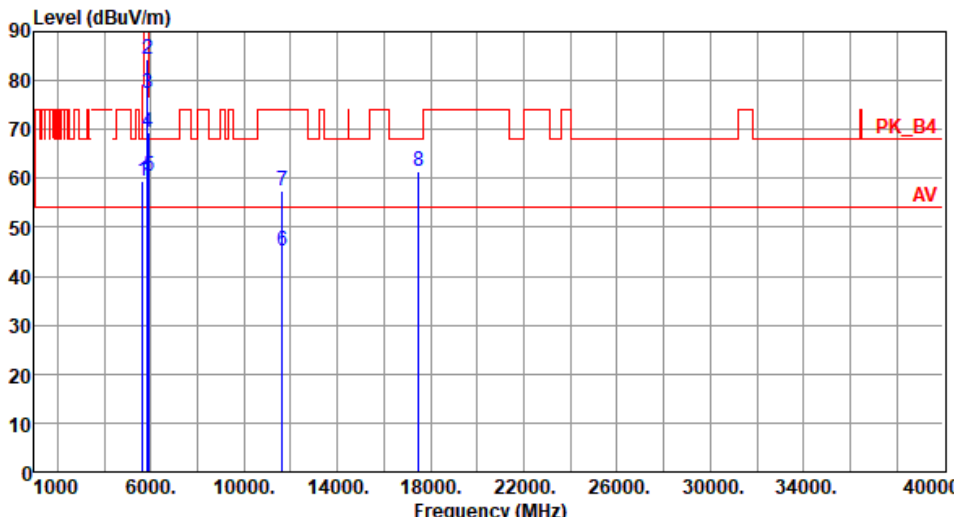
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			

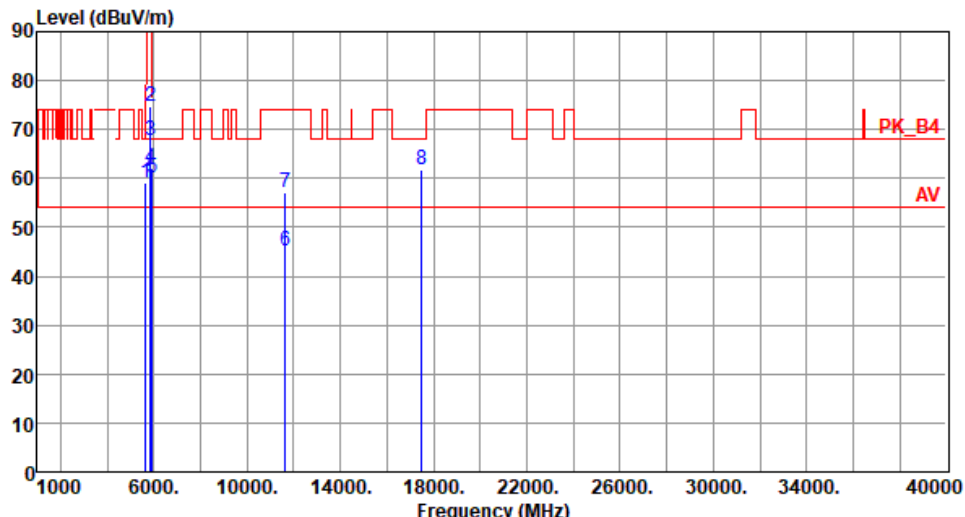
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5700																																																												
Polarization	Horizontal																																																														
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																															
Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission level</th><th>Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High</th><th>Turn Table</th></tr><tr><th></th><th>MHz</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>5725.00</td><td>65.51</td><td>68.20</td><td>-2.69</td><td>60.70</td><td>4.81</td><td>Peak</td><td>357</td><td>345</td></tr><tr><td>2</td><td>11400.00</td><td>45.27</td><td>54.00</td><td>-8.73</td><td>30.42</td><td>14.85</td><td>Average</td><td>100</td><td>173</td></tr><tr><td>3</td><td>11400.00</td><td>57.30</td><td>74.00</td><td>-16.70</td><td>42.45</td><td>14.85</td><td>Peak</td><td>100</td><td>173</td></tr><tr><td>4</td><td>17100.00</td><td>61.93</td><td>68.20</td><td>-6.27</td><td>44.56</td><td>17.37</td><td>Peak</td><td>183</td><td>185</td></tr></table>					Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		MHz	dBUV/m	dBUV/m	dB	dBUV	dB/m		cm	deg	1	5725.00	65.51	68.20	-2.69	60.70	4.81	Peak	357	345	2	11400.00	45.27	54.00	-8.73	30.42	14.85	Average	100	173	3	11400.00	57.30	74.00	-16.70	42.45	14.85	Peak	100	173	4	17100.00	61.93	68.20	-6.27	44.56	17.37	Peak	183	185
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																						
	MHz	dBUV/m	dBUV/m	dB	dBUV	dB/m		cm	deg																																																						
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4	17100.00	61.93	68.20	-6.27	44.56	17.37	Peak	183	185																																																						
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																															

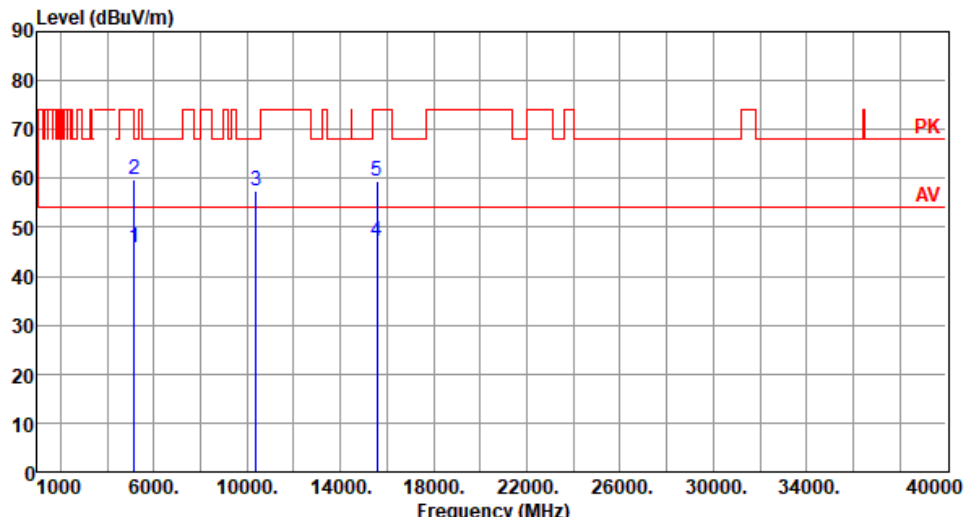
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) <			

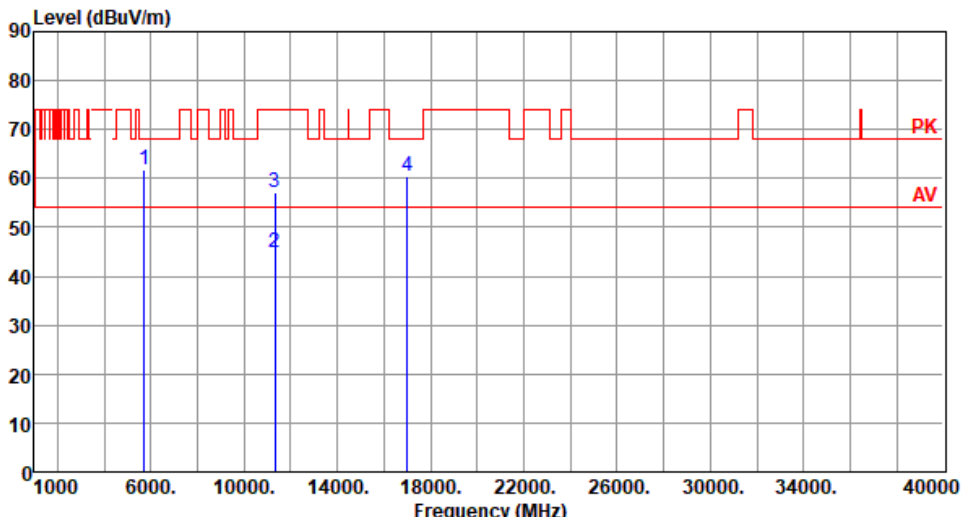
Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																														
Polarization	Horizontal																																																																																																																
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Level (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>5650.00</td><td>59.34</td><td>68.20</td><td>-8.86</td><td>54.89</td><td>4.45</td><td>Peak</td><td>339</td><td>4</td></tr><tr><td>2</td><td>5850.00</td><td>84.43</td><td>122.20</td><td>-37.77</td><td>79.25</td><td>5.18</td><td>Peak</td><td>339</td><td>4</td></tr><tr><td>3</td><td>5855.00</td><td>77.32</td><td>110.80</td><td>-33.48</td><td>72.13</td><td>5.19</td><td>Peak</td><td>339</td><td>4</td></tr><tr><td>4</td><td>5875.00</td><td>69.45</td><td>105.20</td><td>-35.75</td><td>64.17</td><td>5.28</td><td>Peak</td><td>339</td><td>4</td></tr><tr><td>5</td><td>5925.00</td><td>60.36</td><td>68.20</td><td>-7.84</td><td>54.98</td><td>5.38</td><td>Peak</td><td>339</td><td>4</td></tr><tr><td>6</td><td>11650.00</td><td>45.20</td><td>54.00</td><td>-8.80</td><td>30.75</td><td>14.45</td><td>Average</td><td>100</td><td>179</td></tr><tr><td>7</td><td>11650.00</td><td>57.30</td><td>74.00</td><td>-16.70</td><td>42.85</td><td>14.45</td><td>Peak</td><td>100</td><td>179</td></tr><tr><td>8</td><td>17475.00</td><td>61.60</td><td>68.20</td><td>-6.60</td><td>42.76</td><td>18.84</td><td>Peak</td><td>187</td><td>189</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	5650.00	59.34	68.20	-8.86	54.89	4.45	Peak	339	4	2	5850.00	84.43	122.20	-37.77	79.25	5.18	Peak	339	4	3	5855.00	77.32	110.80	-33.48	72.13	5.19	Peak	339	4	4	5875.00	69.45	105.20	-35.75	64.17	5.28	Peak	339	4	5	5925.00	60.36	68.20	-7.84	54.98	5.38	Peak	339	4	6	11650.00	45.20	54.00	-8.80	30.75	14.45	Average	100	179	7	11650.00	57.30	74.00	-16.70	42.85	14.45	Peak	100	179	8	17475.00	61.60	68.20	-6.60	42.76	18.84	Peak	187	189
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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6	11650.00	45.20	54.00	-8.80	30.75	14.45	Average	100	179																																																																																																								
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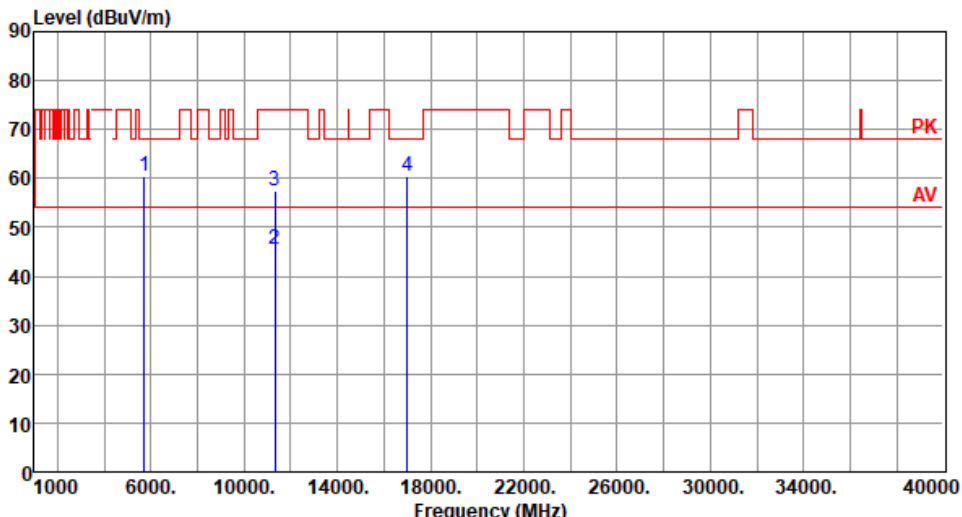
Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																														
Polarization	Vertical																																																																																																																
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Level (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>5650.00</td><td>59.23</td><td>68.20</td><td>-8.97</td><td>54.78</td><td>4.45</td><td>Peak</td><td>111</td><td>122</td></tr><tr><td>2</td><td>5850.00</td><td>74.72</td><td>122.20</td><td>-47.48</td><td>69.54</td><td>5.18</td><td>Peak</td><td>111</td><td>122</td></tr><tr><td>3</td><td>5855.00</td><td>67.75</td><td>110.80</td><td>-43.05</td><td>62.56</td><td>5.19</td><td>Peak</td><td>111</td><td>122</td></tr><tr><td>4</td><td>5875.00</td><td>62.16</td><td>105.20</td><td>-43.04</td><td>56.88</td><td>5.28</td><td>Peak</td><td>111</td><td>122</td></tr><tr><td>5</td><td>5925.00</td><td>60.18</td><td>68.20</td><td>-8.02</td><td>54.80</td><td>5.38</td><td>Peak</td><td>111</td><td>122</td></tr><tr><td>6</td><td>11650.00</td><td>45.23</td><td>54.00</td><td>-8.77</td><td>30.78</td><td>14.45</td><td>Average</td><td>100</td><td>260</td></tr><tr><td>7</td><td>11650.00</td><td>57.15</td><td>74.00</td><td>-16.85</td><td>42.70</td><td>14.45</td><td>Peak</td><td>100</td><td>260</td></tr><tr><td>8</td><td>17475.00</td><td>61.85</td><td>68.20</td><td>-6.35</td><td>43.01</td><td>18.84</td><td>Peak</td><td>257</td><td>262</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	5650.00	59.23	68.20	-8.97	54.78	4.45	Peak	111	122	2	5850.00	74.72	122.20	-47.48	69.54	5.18	Peak	111	122	3	5855.00	67.75	110.80	-43.05	62.56	5.19	Peak	111	122	4	5875.00	62.16	105.20	-43.04	56.88	5.28	Peak	111	122	5	5925.00	60.18	68.20	-8.02	54.80	5.38	Peak	111	122	6	11650.00	45.23	54.00	-8.77	30.78	14.45	Average	100	260	7	11650.00	57.15	74.00	-16.85	42.70	14.45	Peak	100	260	8	17475.00	61.85	68.20	-6.35	43.01	18.84	Peak	257	262
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																																	

3.3.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			

Modulation	VHT40	Test Freq. (MHz)	5190																																																															
Polarization	Vertical																																																																	
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																		
Level (dBuV/m)  <table><tr><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>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>45.94</td><td>54.00</td><td>-8.06</td><td>41.56</td><td>4.38</td><td>Average</td><td>112 124</td></tr><tr><td>2</td><td>5150.00</td><td>59.88</td><td>74.00</td><td>-14.12</td><td>55.50</td><td>4.38</td><td>Peak</td><td>112 124</td></tr><tr><td>3</td><td>10380.00</td><td>57.30</td><td>68.20</td><td>-10.90</td><td>42.85</td><td>14.45</td><td>Peak</td><td>100 253</td></tr><tr><td>4</td><td>15570.00</td><td>47.28</td><td>54.00</td><td>-6.72</td><td>32.69</td><td>14.59</td><td>Average</td><td>251 256</td></tr><tr><td>5</td><td>15570.00</td><td>59.36</td><td>74.00</td><td>-14.64</td><td>44.77</td><td>14.59</td><td>Peak</td><td>251 256</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	45.94	54.00	-8.06	41.56	4.38	Average	112 124	2	5150.00	59.88	74.00	-14.12	55.50	4.38	Peak	112 124	3	10380.00	57.30	68.20	-10.90	42.85	14.45	Peak	100 253	4	15570.00	47.28	54.00	-6.72	32.69	14.59	Average	251 256	5	15570.00	59.36	74.00	-14.64	44.77	14.59	Peak	251 256
Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																										
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3	10380.00	57.30	68.20	-10.90	42.85	14.45	Peak	100 253																																																										
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Modulation	VHT40	Test Freq. (MHz)	5670																																																																						
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Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																									
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><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><tr><td>1</td><td>5725.00</td><td>61.67</td><td>68.20</td><td>-6.53</td><td>56.86</td><td>4.81</td><td>Peak</td><td>379</td><td>347</td></tr><tr><td>2</td><td>11340.00</td><td>44.92</td><td>54.00</td><td>-9.08</td><td>30.25</td><td>14.67</td><td>Average</td><td>100</td><td>182</td></tr><tr><td>3</td><td>11340.00</td><td>57.03</td><td>74.00</td><td>-16.97</td><td>42.36</td><td>14.67</td><td>Peak</td><td>100</td><td>182</td></tr><tr><td>4</td><td>17010.00</td><td>60.52</td><td>68.20</td><td>-7.68</td><td>43.22</td><td>17.30</td><td>Peak</td><td>186</td><td>186</td></tr></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	5725.00	61.67	68.20	-6.53	56.86	4.81	Peak	379	347	2	11340.00	44.92	54.00	-9.08	30.25	14.67	Average	100	182	3	11340.00	57.03	74.00	-16.97	42.36	14.67	Peak	100	182	4	17010.00	60.52	68.20	-7.68	43.22	17.30	Peak	186	186
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																
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Modulation	VHT40	Test Freq. (MHz)	5670																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																									
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>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5725.00</td><td>60.31</td><td>68.20</td><td>-7.89</td><td>55.50</td><td>4.81</td><td>Peak</td><td>127</td><td>129</td></tr><tr><td>2</td><td>11340.00</td><td>45.33</td><td>54.00</td><td>-8.67</td><td>30.66</td><td>14.67</td><td>Average</td><td>100</td><td>244</td></tr><tr><td>3</td><td>11340.00</td><td>57.42</td><td>74.00</td><td>-16.58</td><td>42.75</td><td>14.67</td><td>Peak</td><td>100</td><td>244</td></tr><tr><td>4</td><td>17010.00</td><td>60.59</td><td>68.20</td><td>-7.61</td><td>43.29</td><td>17.30</td><td>Peak</td><td>252</td><td>263</td></tr></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	5725.00	60.31	68.20	-7.89	55.50	4.81	Peak	127	129	2	11340.00	45.33	54.00	-8.67	30.66	14.67	Average	100	244	3	11340.00	57.42	74.00	-16.58	42.75	14.67	Peak	100	244	4	17010.00	60.59	68.20	-7.61	43.29	17.30	Peak	252	263
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																																									

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			

Test Configuration 3

3.3.13 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m) <			

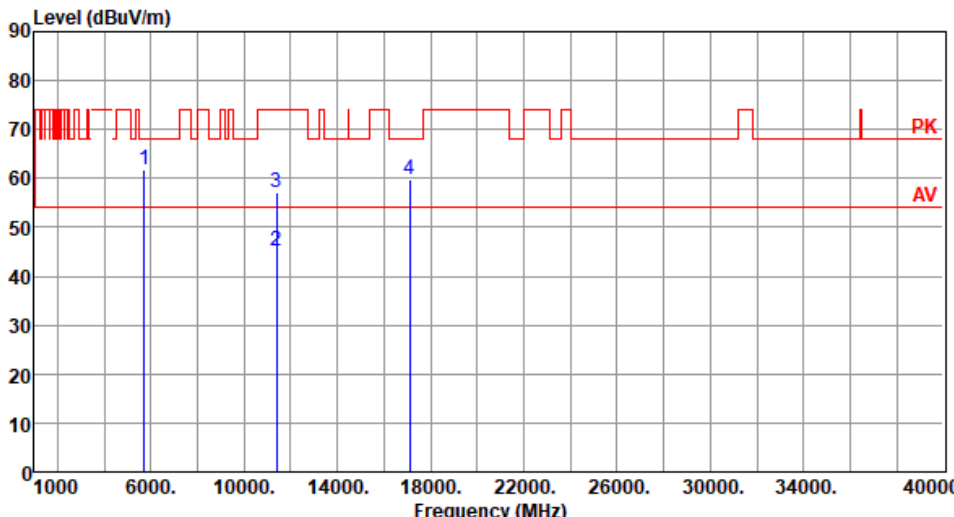
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

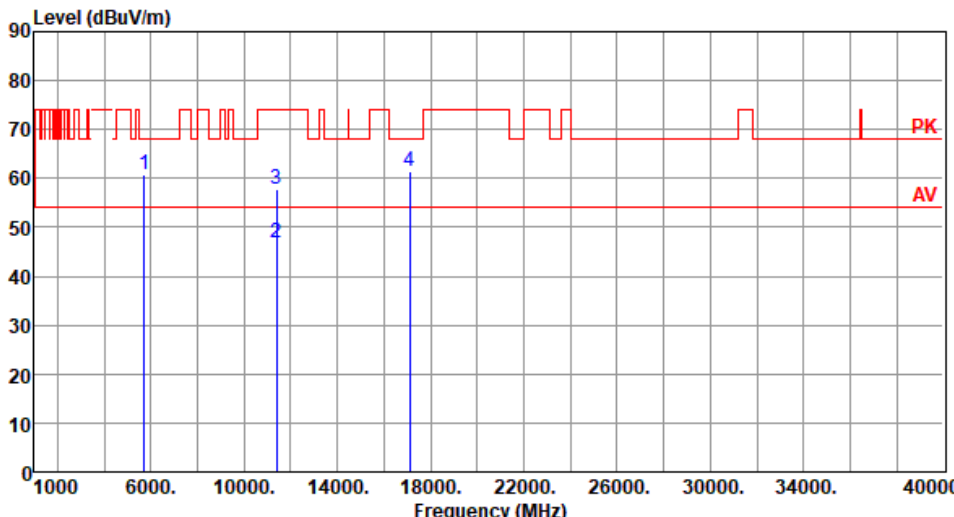
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

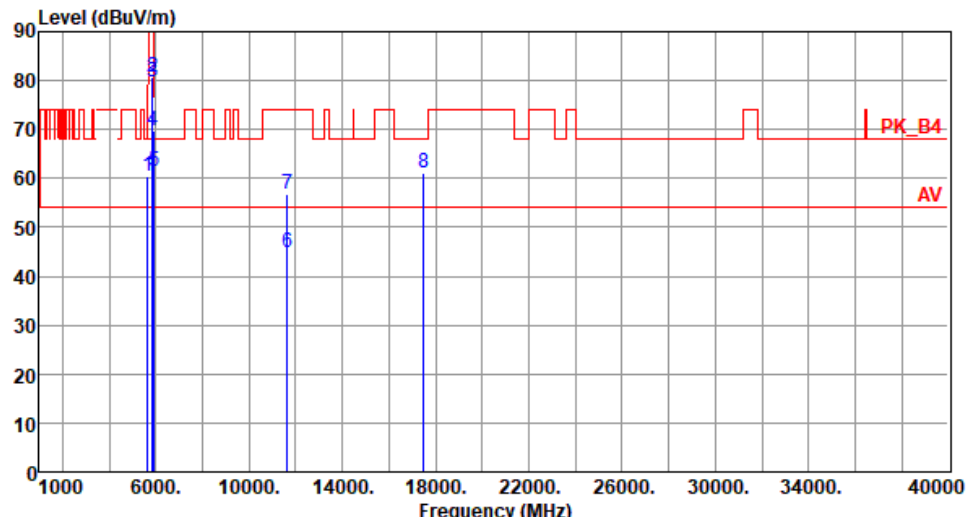
3.3.14 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

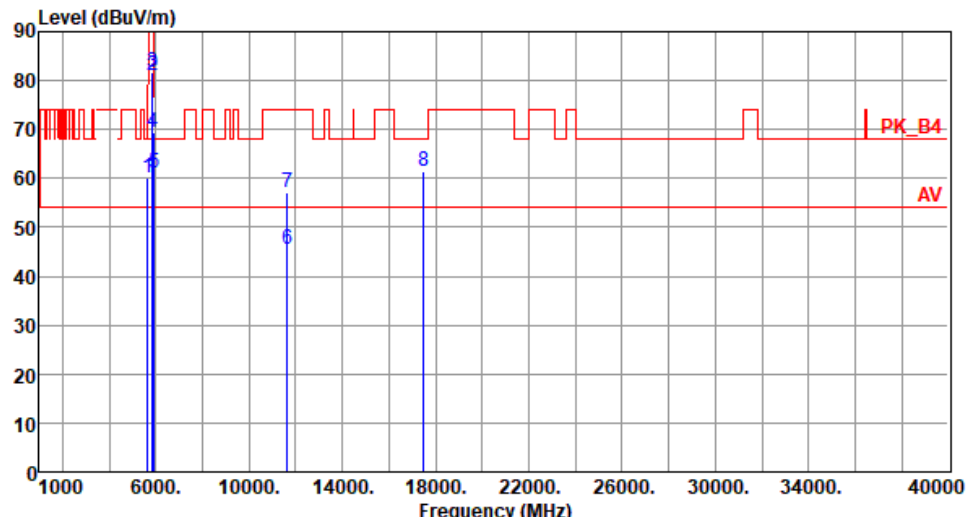
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5700																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																									
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>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5725.00</td><td>61.76</td><td>68.20</td><td>-6.44</td><td>56.95</td><td>4.81</td><td>Peak</td><td>233</td><td>61</td></tr><tr><td>2</td><td>11400.00</td><td>45.20</td><td>54.00</td><td>-8.80</td><td>30.35</td><td>14.85</td><td>Average</td><td>100</td><td>21</td></tr><tr><td>3</td><td>11400.00</td><td>57.22</td><td>74.00</td><td>-16.78</td><td>42.37</td><td>14.85</td><td>Peak</td><td>100</td><td>21</td></tr><tr><td>4</td><td>17100.00</td><td>59.78</td><td>68.20</td><td>-8.42</td><td>42.41</td><td>17.37</td><td>Peak</td><td>100</td><td>25</td></tr></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	5725.00	61.76	68.20	-6.44	56.95	4.81	Peak	233	61	2	11400.00	45.20	54.00	-8.80	30.35	14.85	Average	100	21	3	11400.00	57.22	74.00	-16.78	42.37	14.85	Peak	100	21	4	17100.00	59.78	68.20	-8.42	42.41	17.37	Peak	100	25
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																
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1	5725.00	61.76	68.20	-6.44	56.95	4.81	Peak	233	61																																																																
2	11400.00	45.20	54.00	-8.80	30.35	14.85	Average	100	21																																																																
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Modulation	11a	Test Freq. (MHz)	5700																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																									
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																
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Polarization	Horizontal																																																																																																																
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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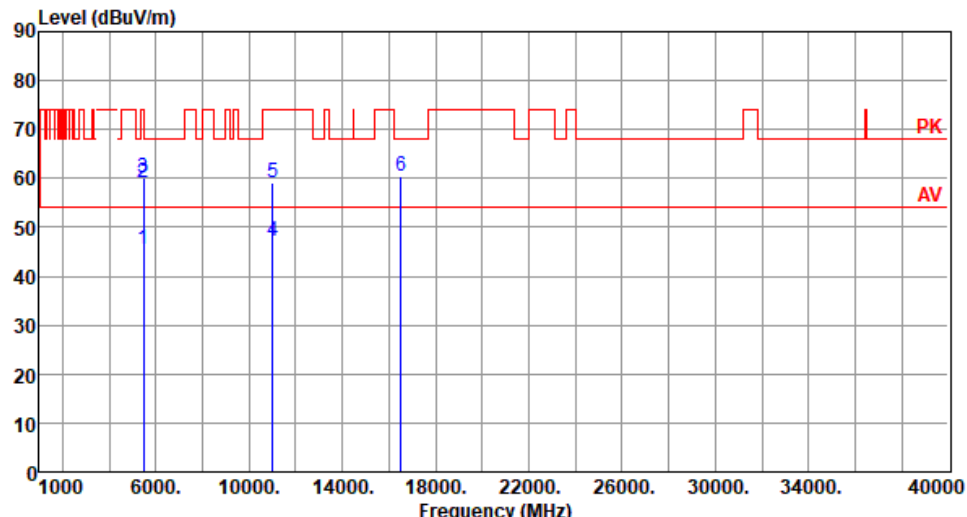
Modulation	11a	Test Freq. (MHz)	5745																																																																																																														
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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3.3.15 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

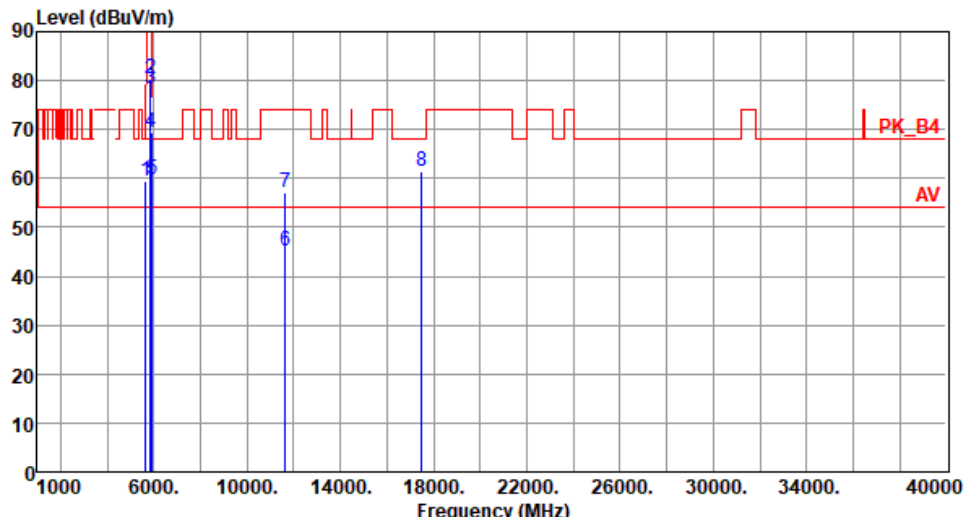
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m)			

Modulation	VHT20	Test Freq. (MHz)	5500																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																									
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>5460.00</td><td>45.50</td><td>54.00</td><td>-8.50</td><td>41.13</td><td>4.37</td><td>Average</td><td>103</td><td>104</td></tr><tr><td>2</td><td>5460.00</td><td>59.14</td><td>74.00</td><td>-14.86</td><td>54.77</td><td>4.37</td><td>Peak</td><td>103</td><td>104</td></tr><tr><td>3</td><td>5470.00</td><td>60.24</td><td>68.20</td><td>-7.96</td><td>55.85</td><td>4.39</td><td>Peak</td><td>103</td><td>104</td></tr><tr><td>4</td><td>11000.00</td><td>47.01</td><td>54.00</td><td>-6.99</td><td>31.85</td><td>15.16</td><td>Average</td><td>259</td><td>337</td></tr><tr><td>5</td><td>11000.00</td><td>59.01</td><td>74.00</td><td>-14.99</td><td>43.85</td><td>15.16</td><td>Peak</td><td>259</td><td>337</td></tr><tr><td>6</td><td>16500.00</td><td>60.30</td><td>68.20</td><td>-7.90</td><td>43.95</td><td>16.35</td><td>Peak</td><td>263</td><td>342</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *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	5460.00	45.50	54.00	-8.50	41.13	4.37	Average	103	104	2	5460.00	59.14	74.00	-14.86	54.77	4.37	Peak	103	104	3	5470.00	60.24	68.20	-7.96	55.85	4.39	Peak	103	104	4	11000.00	47.01	54.00	-6.99	31.85	15.16	Average	259	337	5	11000.00	59.01	74.00	-14.99	43.85	15.16	Peak	259	337	6	16500.00	60.30	68.20	-7.90	43.95	16.35	Peak	263	342
	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	5460.00	45.50	54.00	-8.50	41.13	4.37	Average	103	104																																																																
2	5460.00	59.14	74.00	-14.86	54.77	4.37	Peak	103	104																																																																
3	5470.00	60.24	68.20	-7.96	55.85	4.39	Peak	103	104																																																																
4	11000.00	47.01	54.00	-6.99	31.85	15.16	Average	259	337																																																																
5	11000.00	59.01	74.00	-14.99	43.85	15.16	Peak	259	337																																																																
6	16500.00	60.30	68.20	-7.90	43.95	16.35	Peak	263	342																																																																

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

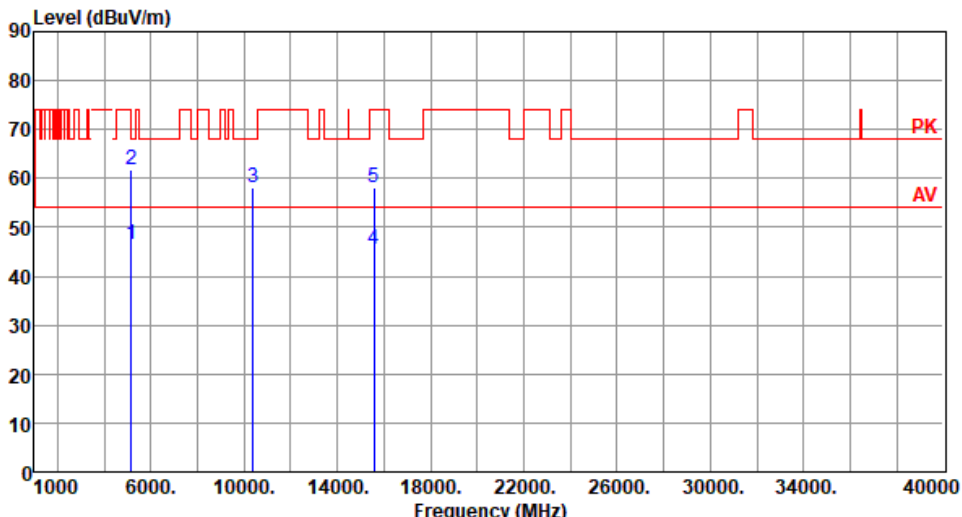
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			

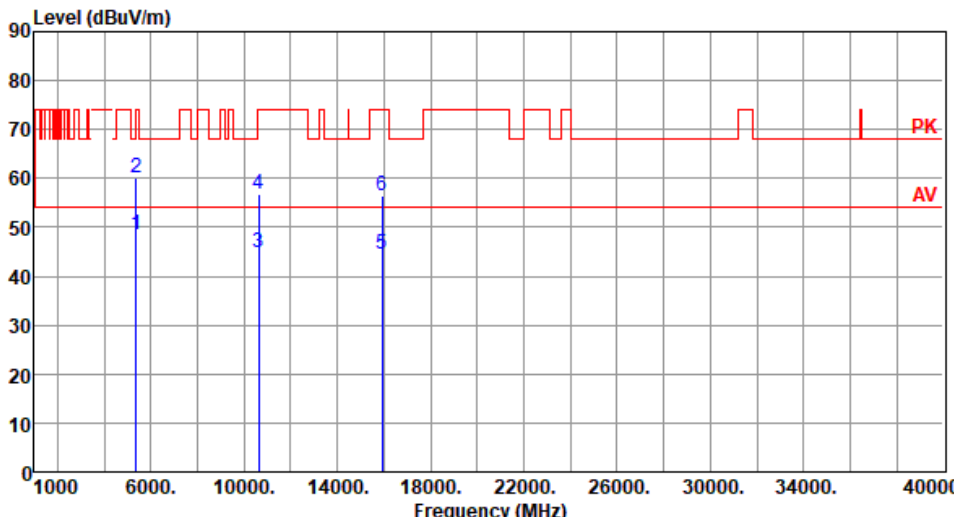
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																													
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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																																																																																				
1	5650.00	59.34	68.20	-8.86	54.89	4.45	Peak	235	335																																																																																				
2	5850.00	80.33	122.20	-41.87	75.15	5.18	Peak	235	335																																																																																				
3	5855.00	78.45	110.80	-32.35	73.26	5.19	Peak	235	335																																																																																				
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																													

3.3.16 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5190																																																																																
Polarization	Vertical																																																																																		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																																			
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>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>46.43</td><td>54.00</td><td>-7.57</td><td>42.05</td><td>4.38</td><td>Average</td><td>107</td><td>107</td></tr><tr><td>2</td><td>5150.00</td><td>61.82</td><td>74.00</td><td>-12.18</td><td>57.44</td><td>4.38</td><td>Peak</td><td>107</td><td>107</td></tr><tr><td>3</td><td>10380.00</td><td>58.15</td><td>68.20</td><td>-10.05</td><td>43.70</td><td>14.45</td><td>Peak</td><td>251</td><td>321</td></tr><tr><td>4</td><td>15570.00</td><td>45.47</td><td>54.00</td><td>-8.53</td><td>30.88</td><td>14.59</td><td>Average</td><td>255</td><td>323</td></tr><tr><td>5</td><td>15570.00</td><td>58.25</td><td>74.00</td><td>-15.75</td><td>43.66</td><td>14.59</td><td>Peak</td><td>255</td><td>323</td></tr></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	5150.00	46.43	54.00	-7.57	42.05	4.38	Average	107	107	2	5150.00	61.82	74.00	-12.18	57.44	4.38	Peak	107	107	3	10380.00	58.15	68.20	-10.05	43.70	14.45	Peak	251	321	4	15570.00	45.47	54.00	-8.53	30.88	14.59	Average	255	323	5	15570.00	58.25	74.00	-15.75	43.66	14.59	Peak	255	323
	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	5150.00	46.43	54.00	-7.57	42.05	4.38	Average	107	107																																																																										
2	5150.00	61.82	74.00	-12.18	57.44	4.38	Peak	107	107																																																																										
3	10380.00	58.15	68.20	-10.05	43.70	14.45	Peak	251	321																																																																										
4	15570.00	45.47	54.00	-8.53	30.88	14.59	Average	255	323																																																																										
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																			

Modulation	VHT40	Test Freq. (MHz)	5310																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																																									
 <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>48.52</td><td>54.00</td><td>-5.48</td><td>44.55</td><td>3.97</td><td>Average</td><td>232</td><td>321</td></tr><tr><td>2</td><td>5350.00</td><td>59.95</td><td>74.00</td><td>-14.05</td><td>55.98</td><td>3.97</td><td>Peak</td><td>232</td><td>321</td></tr><tr><td>3</td><td>10620.00</td><td>44.91</td><td>54.00</td><td>-9.09</td><td>30.34</td><td>14.57</td><td>Average</td><td>100</td><td>24</td></tr><tr><td>4</td><td>10620.00</td><td>56.92</td><td>74.00</td><td>-17.08</td><td>42.35</td><td>14.57</td><td>Peak</td><td>100</td><td>24</td></tr><tr><td>5</td><td>15930.00</td><td>44.49</td><td>54.00</td><td>-9.51</td><td>30.24</td><td>14.25</td><td>Average</td><td>100</td><td>13</td></tr><tr><td>6</td><td>15930.00</td><td>56.53</td><td>74.00</td><td>-17.47</td><td>42.28</td><td>14.25</td><td>Peak</td><td>100</td><td>13</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	48.52	54.00	-5.48	44.55	3.97	Average	232	321	2	5350.00	59.95	74.00	-14.05	55.98	3.97	Peak	232	321	3	10620.00	44.91	54.00	-9.09	30.34	14.57	Average	100	24	4	10620.00	56.92	74.00	-17.08	42.35	14.57	Peak	100	24	5	15930.00	44.49	54.00	-9.51	30.24	14.25	Average	100	13	6	15930.00	56.53	74.00	-17.47	42.28	14.25	Peak	100	13
	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	48.52	54.00	-5.48	44.55	3.97	Average	232	321																																																																
2	5350.00	59.95	74.00	-14.05	55.98	3.97	Peak	232	321																																																																
3	10620.00	44.91	54.00	-9.09	30.34	14.57	Average	100	24																																																																
4	10620.00	56.92	74.00	-17.08	42.35	14.57	Peak	100	24																																																																
5	15930.00	44.49	54.00	-9.51	30.24	14.25	Average	100	13																																																																
6	15930.00	56.53	74.00	-17.47	42.28	14.25	Peak	100	13																																																																
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																																									

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) </			

3.3.17 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			

Test Configuration 4

3.3.18 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):24 Humidity(%):62			
Level (dBuV/m) </			

3.3.19 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

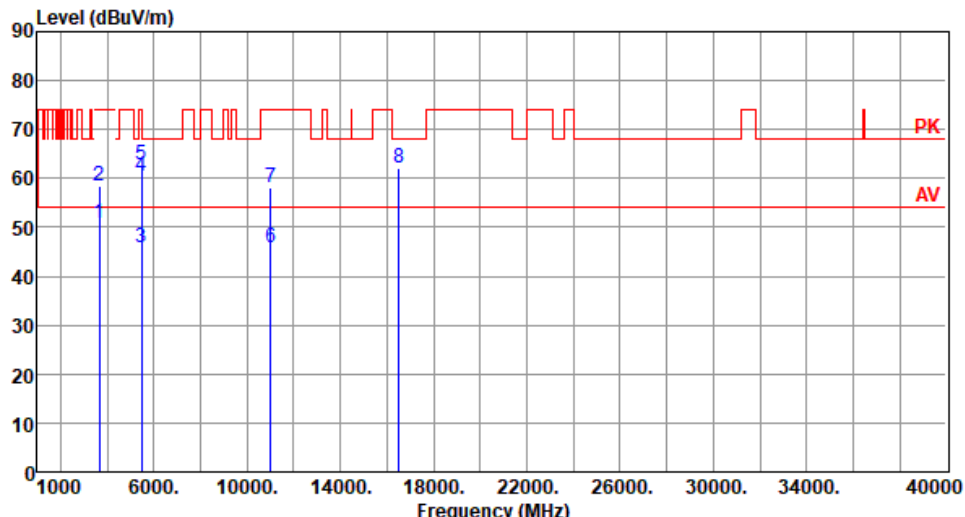
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			

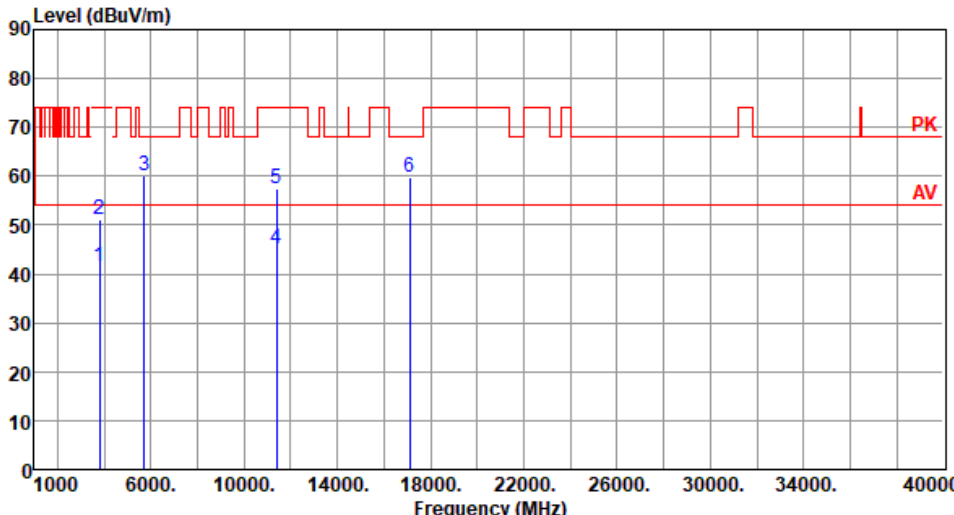
Modulation	11a	Test Freq. (MHz)	5180																																																												
Polarization	Vertical																																																														
Test By :Akun Chung Temperature(°C):25 Humidity(%):66																																																															
Level (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>49.27</td><td>54.00</td><td>-4.73</td><td>44.89</td><td>4.38</td><td>Average</td><td>104</td><td>145</td></tr><tr><td>2</td><td>5150.00</td><td>62.18</td><td>74.00</td><td>-11.82</td><td>57.80</td><td>4.38</td><td>Peak</td><td>104</td><td>145</td></tr><tr><td>3</td><td>10360.00</td><td>57.27</td><td>68.20</td><td>-10.93</td><td>42.85</td><td>14.42</td><td>Peak</td><td>100</td><td>344</td></tr><tr><td>4</td><td>15540.00</td><td>47.30</td><td>54.00</td><td>-6.70</td><td>32.65</td><td>14.65</td><td>Average</td><td>354</td><td>336</td></tr><tr><td>5</td><td>15540.00</td><td>60.50</td><td>74.00</td><td>-13.50</td><td>45.85</td><td>14.65</td><td>Peak</td><td>354</td><td>336</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	49.27	54.00	-4.73	44.89	4.38	Average	104	145	2	5150.00	62.18	74.00	-11.82	57.80	4.38	Peak	104	145	3	10360.00	57.27	68.20	-10.93	42.85	14.42	Peak	100	344	4	15540.00	47.30	54.00	-6.70	32.65	14.65	Average	354	336	5	15540.00	60.50	74.00	-13.50	45.85	14.65	Peak	354	336
	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	49.27	54.00	-4.73	44.89	4.38	Average	104	145																																																						
2	5150.00	62.18	74.00	-11.82	57.80	4.38	Peak	104	145																																																						
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4	15540.00	47.30	54.00	-6.70	32.65	14.65	Average	354	336																																																						
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																															

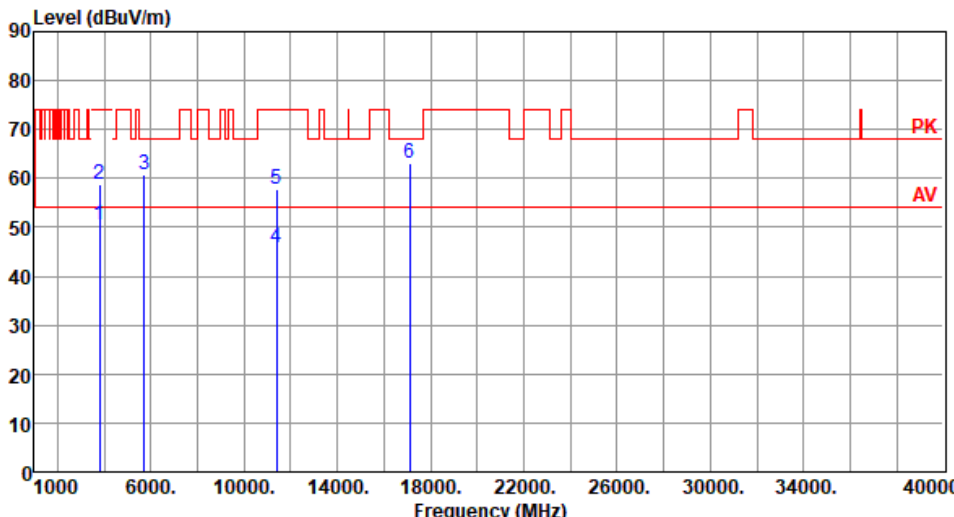
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		
Test By :Akun CHung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) </			

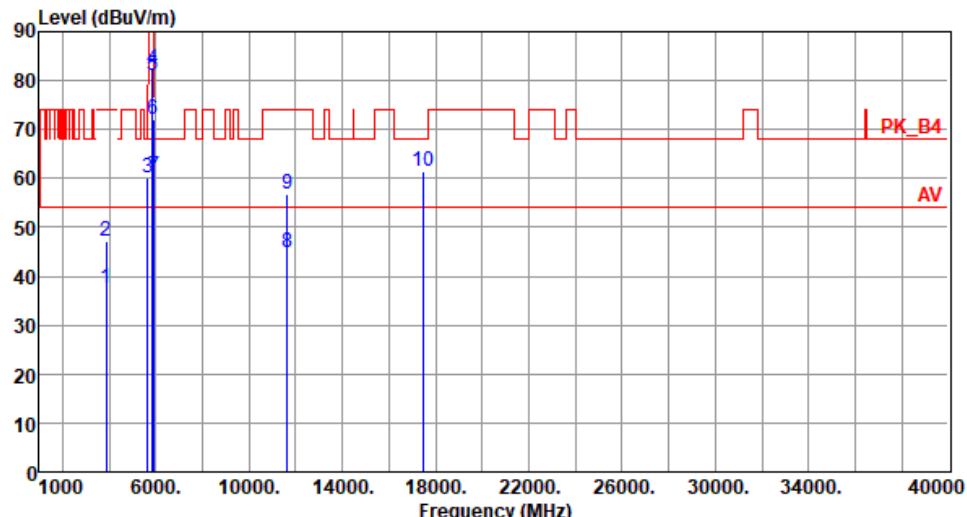
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		
Test By :Akun CHung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) </			

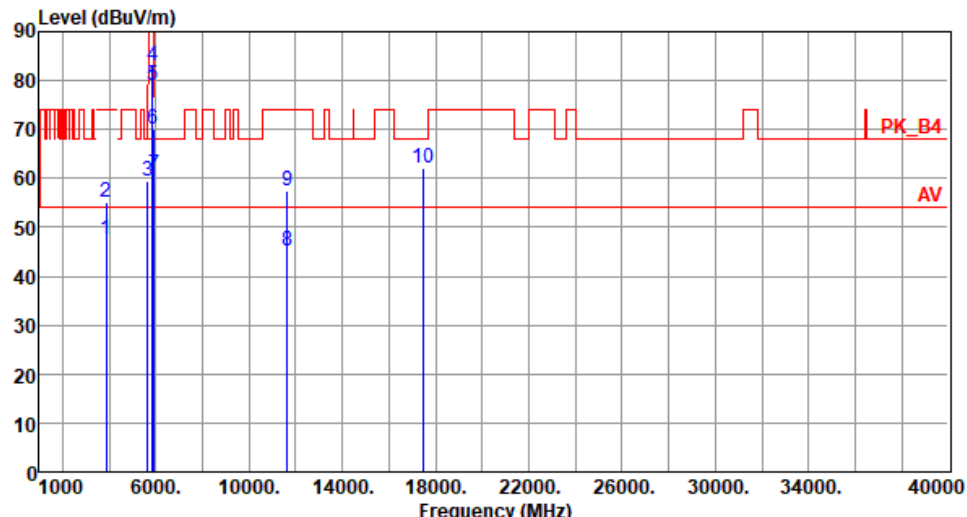
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Akun CHung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5500																																																																																										
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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>3666.66</td><td>50.74</td><td>54.00</td><td>-3.26</td><td>50.44</td><td>0.30</td><td>Average</td><td>256</td><td>93</td></tr><tr><td>2</td><td>3666.66</td><td>58.45</td><td>74.00</td><td>-15.55</td><td>58.15</td><td>0.30</td><td>Peak</td><td>256</td><td>93</td></tr><tr><td>3</td><td>5460.00</td><td>45.67</td><td>54.00</td><td>-8.33</td><td>41.30</td><td>4.37</td><td>Average</td><td>105</td><td>142</td></tr><tr><td>4</td><td>5460.00</td><td>60.32</td><td>74.00</td><td>-13.68</td><td>55.95</td><td>4.37</td><td>Peak</td><td>105</td><td>142</td></tr><tr><td>5</td><td>5470.00</td><td>62.72</td><td>68.20</td><td>-5.48</td><td>58.33</td><td>4.39</td><td>Peak</td><td>105</td><td>142</td></tr><tr><td>6</td><td>11000.00</td><td>45.84</td><td>54.00</td><td>-8.16</td><td>30.68</td><td>15.16</td><td>Average</td><td>100</td><td>339</td></tr><tr><td>7</td><td>11000.00</td><td>57.96</td><td>74.00</td><td>-16.04</td><td>42.80</td><td>15.16</td><td>Peak</td><td>100</td><td>339</td></tr><tr><td>8</td><td>16500.00</td><td>62.23</td><td>68.20</td><td>-5.97</td><td>45.88</td><td>16.35</td><td>Peak</td><td>328</td><td>335</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *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	3666.66	50.74	54.00	-3.26	50.44	0.30	Average	256	93	2	3666.66	58.45	74.00	-15.55	58.15	0.30	Peak	256	93	3	5460.00	45.67	54.00	-8.33	41.30	4.37	Average	105	142	4	5460.00	60.32	74.00	-13.68	55.95	4.37	Peak	105	142	5	5470.00	62.72	68.20	-5.48	58.33	4.39	Peak	105	142	6	11000.00	45.84	54.00	-8.16	30.68	15.16	Average	100	339	7	11000.00	57.96	74.00	-16.04	42.80	15.16	Peak	100	339	8	16500.00	62.23	68.20	-5.97	45.88	16.35	Peak	328	335
	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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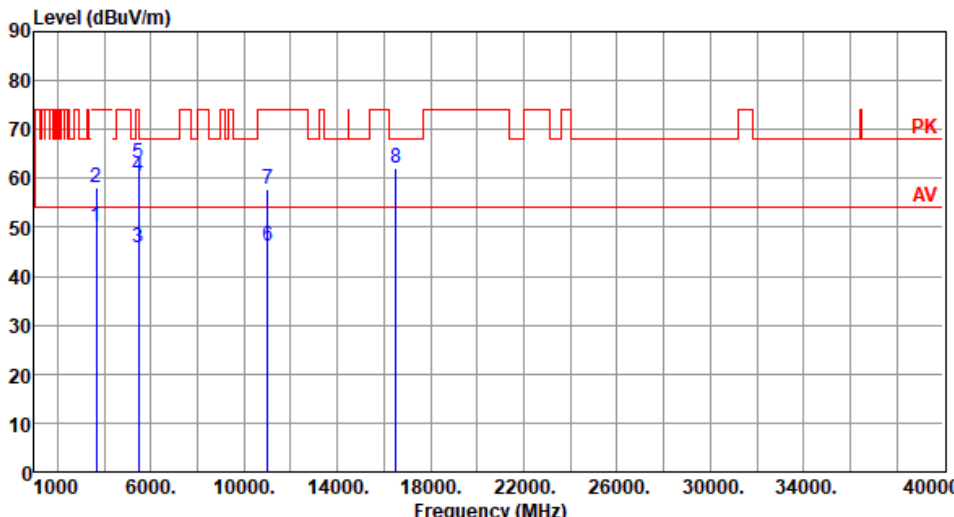
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3.3.20 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

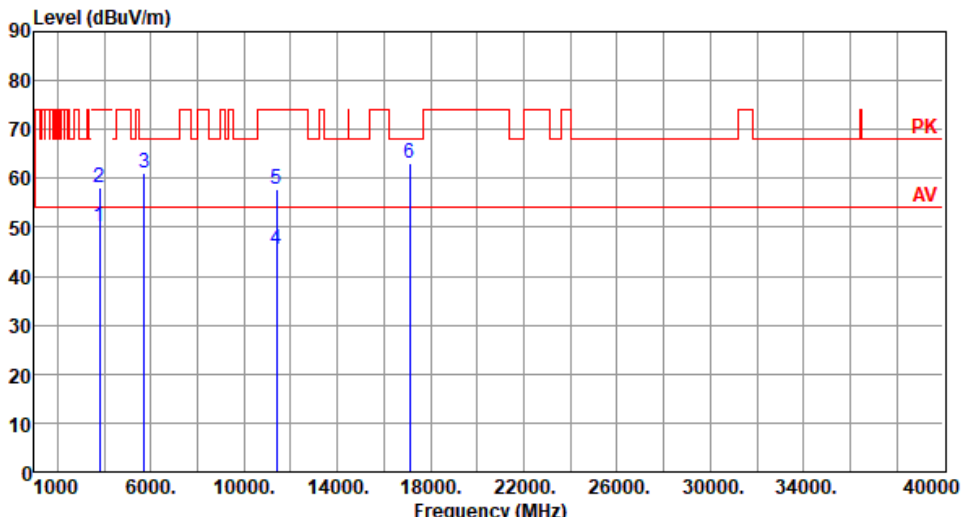
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

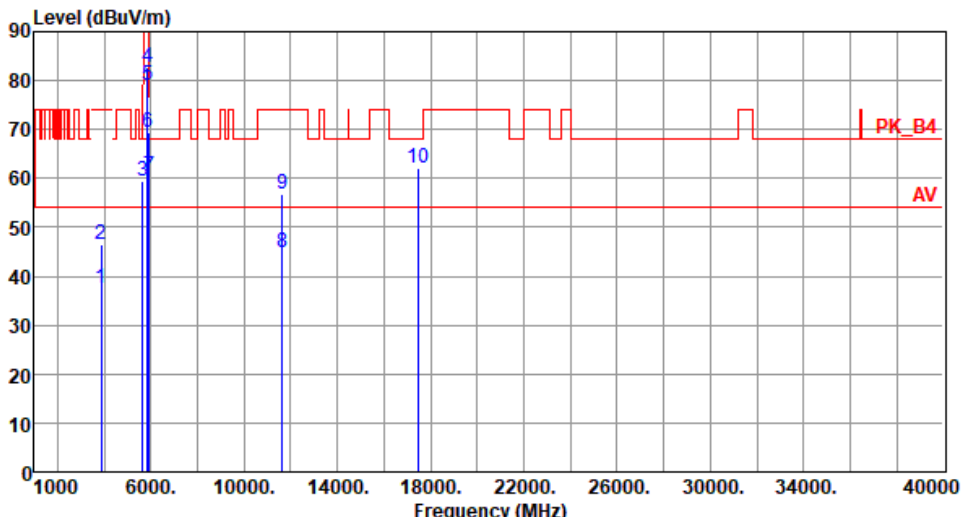
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) </			

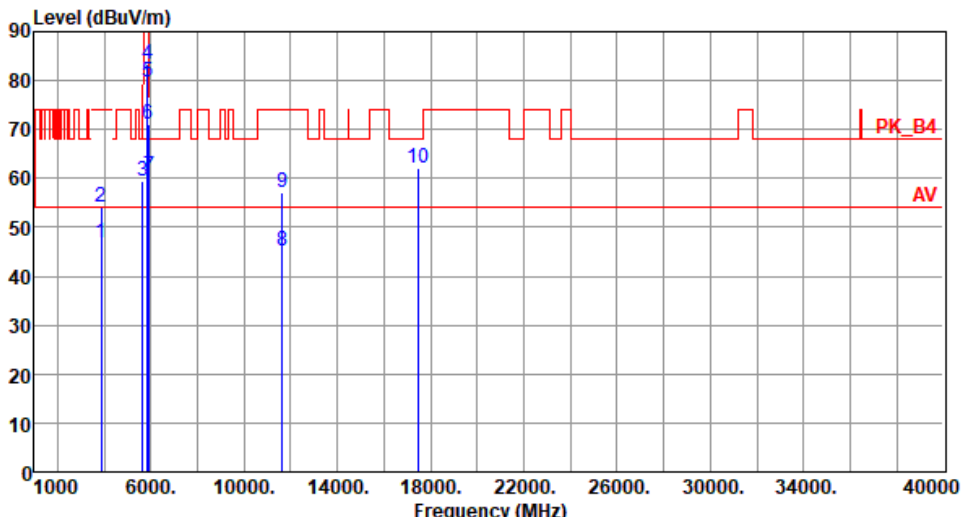
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5500																																																																																										
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Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBUV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5700																																																																						
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Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																														
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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>3883.33</td><td>46.77</td><td>54.00</td><td>-7.23</td><td>45.96</td><td>0.81</td><td>Average</td><td>258</td><td>98</td></tr><tr><td>2</td><td>3883.33</td><td>54.25</td><td>74.00</td><td>-19.75</td><td>53.44</td><td>0.81</td><td>Peak</td><td>258</td><td>98</td></tr><tr><td>3</td><td>5650.00</td><td>59.41</td><td>68.20</td><td>-8.79</td><td>54.96</td><td>4.45</td><td>Peak</td><td>150</td><td>133</td></tr><tr><td>4</td><td>5850.00</td><td>83.43</td><td>122.20</td><td>-38.77</td><td>78.25</td><td>5.18</td><td>Peak</td><td>150</td><td>133</td></tr><tr><td>5</td><td>5855.00</td><td>79.75</td><td>110.80</td><td>-31.05</td><td>74.56</td><td>5.19</td><td>Peak</td><td>150</td><td>133</td></tr><tr><td>6</td><td>5875.00</td><td>71.13</td><td>105.20</td><td>-34.07</td><td>65.85</td><td>5.28</td><td>Peak</td><td>150</td><td>133</td></tr><tr><td>7</td><td>5925.00</td><td>60.60</td><td>68.20</td><td>-7.60</td><td>55.22</td><td>5.38</td><td>Peak</td><td>150</td><td>133</td></tr><tr><td>8</td><td>11650.00</td><td>45.30</td><td>54.00</td><td>-8.70</td><td>30.85</td><td>14.45</td><td>Average</td><td>100</td><td>339</td></tr><tr><td>9</td><td>11650.00</td><td>57.19</td><td>74.00</td><td>-16.81</td><td>42.74</td><td>14.45</td><td>Peak</td><td>100</td><td>339</td></tr><tr><td>10</td><td>17475.00</td><td>61.96</td><td>68.20</td><td>-6.24</td><td>43.12</td><td>18.84</td><td>Peak</td><td>327</td><td>345</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *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	3883.33	46.77	54.00	-7.23	45.96	0.81	Average	258	98	2	3883.33	54.25	74.00	-19.75	53.44	0.81	Peak	258	98	3	5650.00	59.41	68.20	-8.79	54.96	4.45	Peak	150	133	4	5850.00	83.43	122.20	-38.77	78.25	5.18	Peak	150	133	5	5855.00	79.75	110.80	-31.05	74.56	5.19	Peak	150	133	6	5875.00	71.13	105.20	-34.07	65.85	5.28	Peak	150	133	7	5925.00	60.60	68.20	-7.60	55.22	5.38	Peak	150	133	8	11650.00	45.30	54.00	-8.70	30.85	14.45	Average	100	339	9	11650.00	57.19	74.00	-16.81	42.74	14.45	Peak	100	339	10	17475.00	61.96	68.20	-6.24	43.12	18.84	Peak	327	345
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3.3.21 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):25 Humidity(%):66			
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5190																																																												
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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

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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.

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==END==