

ISED C2PC Test Report

IC : 3147A-602230C

Equipment : 802.11 ac/a/b/g/n M.2 2230 + Bluetooth 4.2 module
(Please refer to section 1.1.1 for more details.)

Model No. : ST60-2230C
(Please refer to section 1.1.1 for more details.)

Brand Name : Laird Connectivity
(Please refer to section 1.1.1 for more details.)

Applicant : Laird Connectivity, Inc.

Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA

Manufacturer : Laird Connectivity, Inc.

Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA

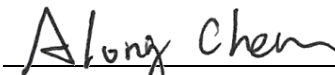
Standard : RSS-247 Issue 2 February 2017

Received Date : Jul. 20, 2020

Tested Date : Aug. 27 ~ Sep. 07, 2020

We, International Certification Corp., 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:

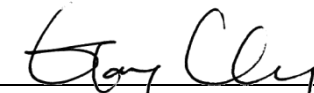

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
CR740701-09AN	Rev. 01	Initial issue	Oct. 27, 2020

Summary of Test Results

IC Rules	Test Items	Measured	Result
RSS-Gen Section 8.8	Conducted Emissions	[dBuV]: 4.454MHz 47.80 (Margin -8.20dB) - QP	Pass
RSS-247 Section 6.2.1.2 RSS-247 Section 6.2.2.2 RSS-247 Section 6.2.3.2 RSS-247 Section 6.2.4.2	Radiated Emissions	[dBuV/m at 3m]: 5150.00MHz 52.84 (Margin -1.16dB) - AV	Pass
RSS-247 Section 6.2.1.1 RSS-247 Section 6.2.2.1 RSS-247 Section 6.2.3.1 RSS-247 Section 6.2.4.1	Emission Bandwidth	Meet the requirement of limit	Pass
RSS-247 Section 6.2.4.1	6dB bandwidth	Meet the requirement of limit	Pass
RSS-247 Section 6.2.1.1 RSS-247 Section 6.2.2.1 RSS-247 Section 6.2.3.1 RSS-247 Section 6.2.4.1	RF Output Power	Max Power [dBm]: 17.36	Pass
RSS-247 Section 6.2.1.1 RSS-247 Section 6.2.2.1 RSS-247 Section 6.2.3.1 RSS-247 Section 6.2.4.1	Peak Power Spectral Density	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 is a Class II Permissive Change report (C2PC).

This report is issued as a supplementary report to original report no. CR740701AN. The difference is concerned with following items:

1. Components of non-RF section are replaced to switch interface.
2. Adding two models
3. Reduced output power of 11a (5500, 5700 MHz), VHT20(5500,5700 MHz) and VHT 5670MHz by software setting.

1.1.1 Product Details

The following models are provided to this EUT. (New additions are marked in boldface.)

Brand Name	Model Name	Product Name	Description
Laird Technologies	ST60-2230C	802.11 ac/a/b/g/n M.2 2230 + Bluetooth 4.2 module	For marketing purpose
	SU60-2230C		
Laird Connectivity	ST60-2230C-P	802.11 ac/a/b/g/n M.2 2230 + Bluetooth 4.2 module PCIe/UART interface	PCIe/UART interface
	ST60-2230C-PU	802.11 ac/a/b/g/n M.2 2230 + Bluetooth 4.2 module PCIe/USB interface	PCIe/USB interface

Here's a model list for comparison.

Model Name	PCB	WiFi	BT
ST60-2230C (Original)	ST60-2230C	SDIO	UART
ST60-2230C-P	ST60-2230C-P	PCIe	UART
ST60-2230C-PU	ST60-2230C-P	PCIe	USB

ST60-2230C PCB			ST60-2230C-P PCB		
CONFIG_HOST0	CONFIG_HOST1	CONFIG_HOST2	CONFIG_HOST0	CONFIG_HOST1	CONFIG_HOST2
R37	R36	R35	-	-	-
-	-	-	R61	R60	R35
-	-	-	R37	R60	R35

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

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	LSR/001-0009	Dipole	IPEX U.FL	2	2	2	2	2
2	Laird NanoBlade-IP04	PCB Dipole	IPEX U.FL	2	3.9	3.9	4	4
3	Laird MAF95310 Mini NanoBlade Flex	PCB Dipole	IPEX U.FL	2.79	3.38	3.38	3.38	3.38
4	LSR/FlexPIFA 001-0016	PIFA	IPEX U.FL	2.5	3	3	3	3
5	Ethertronics WLAN_1000146	Isolated Magnetic Dipole	IPEX U.FL	2.5	3.5	3.5	3.5	3.5

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	DC 3.3V from host
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1.1.5 Accessories

N/A

1.1.6 Channel List

802.11 a / HT20 / VHT20		HT40 / 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	134	5670
64	5320	142	5710
100	5500	151	5755
104	5520	159	5795
108	5540	VHT80	
112	5560	42	5210
116	5580	58	5290
132	5660	106	5530
136	5680	138	5690
140	5700	155	5775
144	5720	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.7 Test Sample Information

MAC of Test Sample	Radiated Emission: C0EE40600DA4 AC Power Line Conducted Emission: C0EE40600DA4 Antenna Port Conducted: C0EE40600DA4
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1.1.8 Test Tool and Duty Cycle

Test Tool	Dut labtool, v1.0.0.153		
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

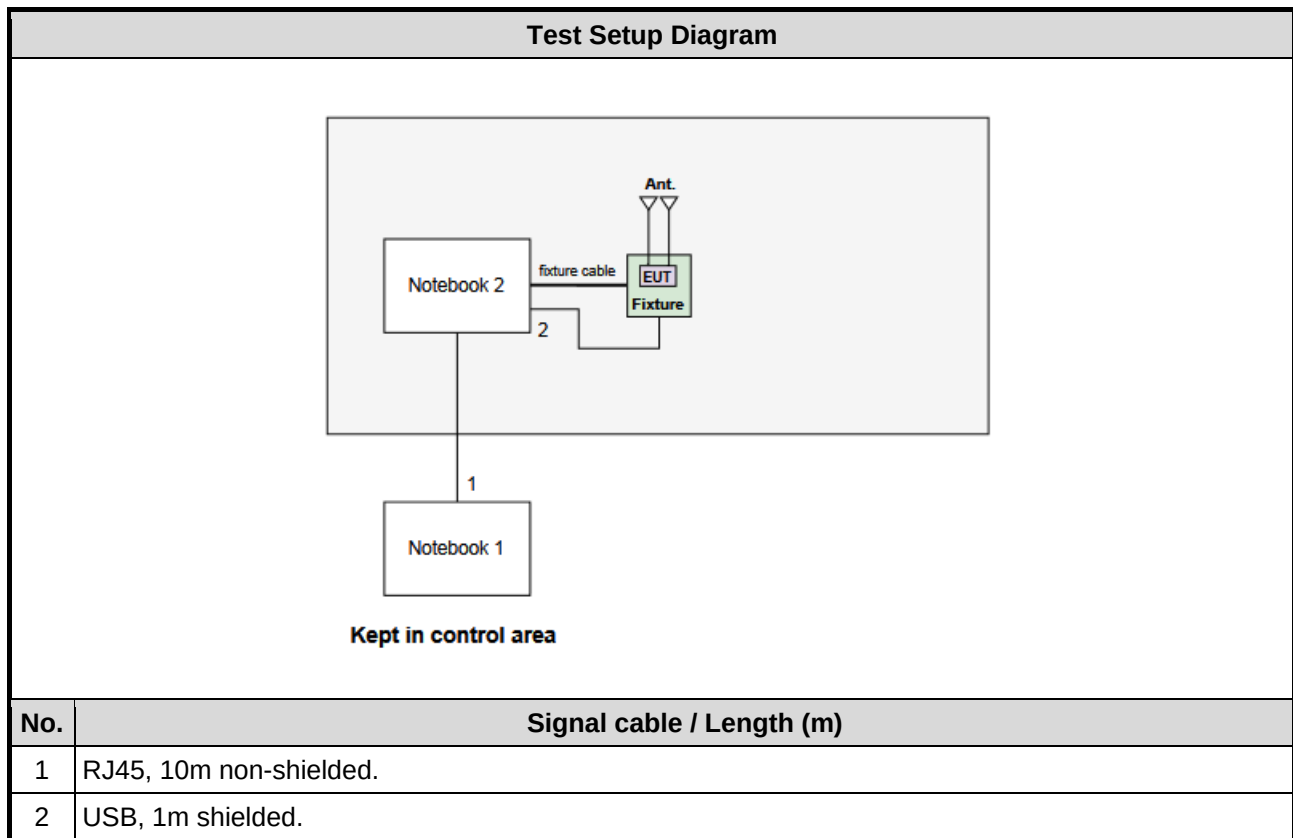
1.1.9 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5500	13
11a	5700	13
11a	5720	18
11a	5745	18
11a	5785	18
11a	5825	18
VHT20	5500	14
VHT20	5700	14
VHT20	5720	18
VHT20	5745	18
VHT20	5785	18
VHT20	5825	18
VHT40	5310	13
VHT40	5510	13
VHT40	5670	14
VHT80	5210	11
VHT80	5290	11
VHT80	5530	11

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook1	DELL	Latitude E5470	DoC	---
2	Notebook2	Lenovo	T430	DoC	Provided by applicant.
3	Fixture	Laird	DVK-SU60-223 OC_B0	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
LISN	R&S	ENV216	101579	Mar. 12, 2020	Mar. 11, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
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 chamber 3 / (03CH03-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 29, 2020	Apr. 28, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 27, 2019	Dec. 26, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980225	Jul. 03, 2020	Jul. 02, 2021
Preamplifier	Agilent	83017A	MY39501309	Sep. 24, 2019	Sep. 23, 2020
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 27, 2019	Sep. 26, 2020
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 27, 2019	Sep. 26, 2020
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 27, 2019	Sep. 26, 2020
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 27, 2019	Sep. 26, 2020
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 27, 2019	Sep. 26, 2020
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 27, 2019	Sep. 26, 2020
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)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 12, 2019	Dec. 11, 2020
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 02, 2019	Dec. 01, 2020
Measurement Software	--	SENSE-15407_NII	V5.10	NA	NA

Note: Calibration Interval of instruments listed above is one year.

1.5 Test Standards

RSS-247 Issue 2 February 2017

RSS-Gen Issue 5 March 2019 Amendment 1

ANSI C63.10-2013

ANSI C63.4-2014

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.6 Reference Guidance

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Power density	± 0.583 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.96 dB
Radiated emission > 1 GHz	± 4.51 dB

2 Test Configuration

2.1 Testing Facility

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

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation / Frequency (MHz)	Model	Test Configuration
Conducted Emissions	VHT20, 5580 VHT20, 5745	ST60-2230C-P	2
		ST60-2230C-PU	
Radiated Emissions ≤ 1 GHz	VHT20, 5580 VHT20, 5745	ST60-2230C-P	1, 2, 3, 4
		ST60-2230C-PU	
Radiated Emissions > 1 GHz	11a, 5500 / 5700 / 5720 / 5745 / 5785 / 5825 VHT20, 5500 / 5700 / 5720 / 5745 / 5785 / 5825 VHT40, 5310 / 5510 / 5670 VHT80, 5210 / 5290 / 5530	ST60-2230C-P	1
	11a, 5500 / 5700 / 5720 / 5745 / 5785 VHT20, 5500 / 5700 / 5720 / 5745 / 5785 VHT40, 5310 / 5510 / 5670 VHT80, 5210 / 5290 / 5530		2
	11a, 5500 / 5700 VHT20, 5500 / 5700 / 5825 VHT40, 5670 VHT80, 5210 / 5290		3
	11a, 5500 / 5700 VHT20, 5500 / 5700 / 5825 VHT40, 5670 VHT80, 5210 / 5290		4
RF Output Power Emission Bandwidth Peak Power Spectral Density	11a, 5500 / 5700 VHT20, 5500 / 5700 VHT40, 5670	ST60-2230C-P	2
NOTE: - The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report. - The test configurations are listed as follows: - Configuration 1: Dipole Antenna - Configuration 2: PCB Dipole Antenna - Configuration 3: PIFA Antenna - Configuration 4: Isolated Magnetic Dipole Antenna - Test channels of radiated emission > 1GHz refers to original test report since these channels have higher spurious emission.			

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

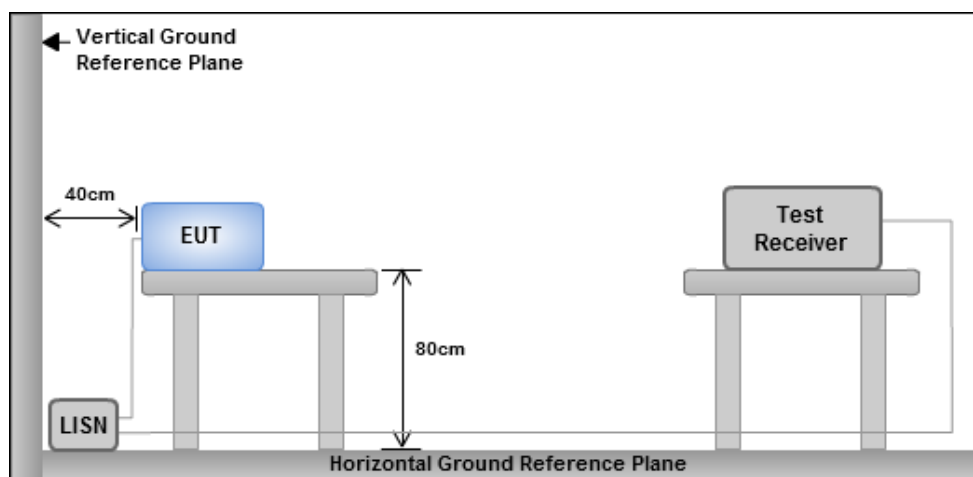
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

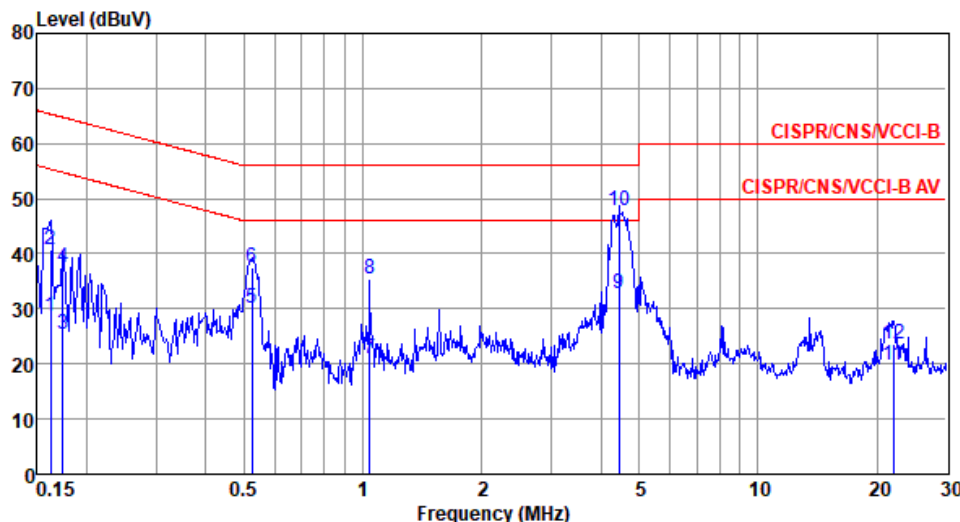


- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

Configuration 2: PCB Dipole Antenna

With model: ST60-2230C-P

3.1.4 Test Result of Conducted Emissions

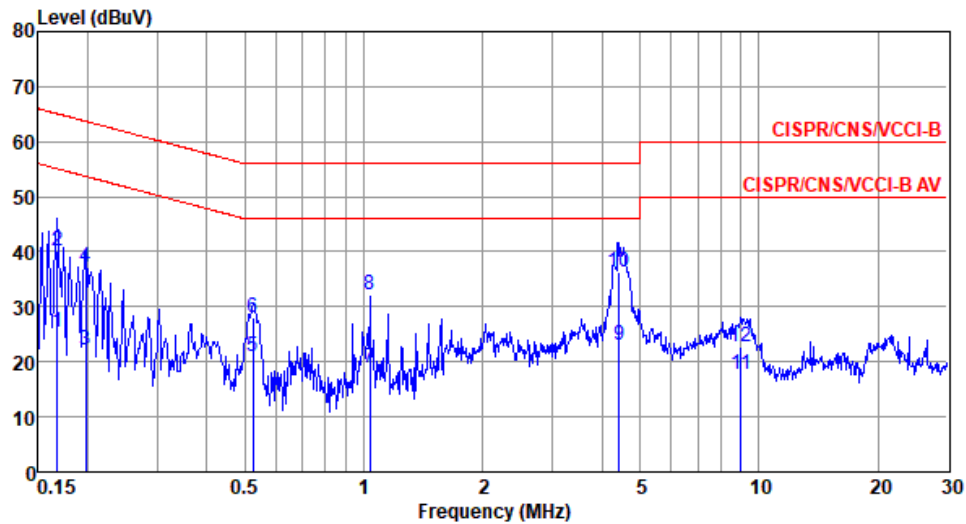
Modulation	VHT20	Test Freq. (MHz)	5580																																																																																																																					
Power Phase	Line																																																																																																																							
Test by : Alex Tsai Temperature: 24°C Humidity: 63%																																																																																																																								
Level (dBuV)  Frequency (MHz) <table><thead><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>LISN factor dB</th><th>cable loss dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.162</td><td>28.75</td><td>55.34</td><td>-26.59</td><td>19.06</td><td>9.64</td><td>0.05</td><td>Average</td></tr><tr><td>2</td><td>0.162</td><td>40.84</td><td>65.34</td><td>-24.50</td><td>31.15</td><td>9.64</td><td>0.05</td><td>QP</td></tr><tr><td>3</td><td>0.174</td><td>25.25</td><td>54.77</td><td>-29.52</td><td>15.56</td><td>9.63</td><td>0.06</td><td>Average</td></tr><tr><td>4</td><td>0.174</td><td>37.46</td><td>64.77</td><td>-27.31</td><td>27.77</td><td>9.63</td><td>0.06</td><td>QP</td></tr><tr><td>5</td><td>0.524</td><td>30.01</td><td>46.00</td><td>-15.99</td><td>20.29</td><td>9.63</td><td>0.09</td><td>Average</td></tr><tr><td>6</td><td>0.524</td><td>37.51</td><td>56.00</td><td>-18.49</td><td>27.79</td><td>9.63</td><td>0.09</td><td>QP</td></tr><tr><td>7</td><td>1.043</td><td>21.05</td><td>46.00</td><td>-24.95</td><td>11.30</td><td>9.63</td><td>0.12</td><td>Average</td></tr><tr><td>8</td><td>1.043</td><td>35.51</td><td>56.00</td><td>-20.49</td><td>25.76</td><td>9.63</td><td>0.12</td><td>QP</td></tr><tr><td>9</td><td>4.454</td><td>32.91</td><td>46.00</td><td>-13.09</td><td>22.96</td><td>9.65</td><td>0.30</td><td>Average</td></tr><tr><td>10*</td><td>4.454</td><td>47.80</td><td>56.00</td><td>-8.20</td><td>37.85</td><td>9.65</td><td>0.30</td><td>QP</td></tr><tr><td>11</td><td>22.063</td><td>19.80</td><td>50.00</td><td>-30.20</td><td>9.42</td><td>9.70</td><td>0.68</td><td>Average</td></tr><tr><td>12</td><td>22.063</td><td>23.48</td><td>60.00</td><td>-36.52</td><td>13.10</td><td>9.70</td><td>0.68</td><td>QP</td></tr></tbody></table> Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark	1	0.162	28.75	55.34	-26.59	19.06	9.64	0.05	Average	2	0.162	40.84	65.34	-24.50	31.15	9.64	0.05	QP	3	0.174	25.25	54.77	-29.52	15.56	9.63	0.06	Average	4	0.174	37.46	64.77	-27.31	27.77	9.63	0.06	QP	5	0.524	30.01	46.00	-15.99	20.29	9.63	0.09	Average	6	0.524	37.51	56.00	-18.49	27.79	9.63	0.09	QP	7	1.043	21.05	46.00	-24.95	11.30	9.63	0.12	Average	8	1.043	35.51	56.00	-20.49	25.76	9.63	0.12	QP	9	4.454	32.91	46.00	-13.09	22.96	9.65	0.30	Average	10*	4.454	47.80	56.00	-8.20	37.85	9.65	0.30	QP	11	22.063	19.80	50.00	-30.20	9.42	9.70	0.68	Average	12	22.063	23.48	60.00	-36.52	13.10	9.70	0.68	QP
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark																																																																																																																
1	0.162	28.75	55.34	-26.59	19.06	9.64	0.05	Average																																																																																																																
2	0.162	40.84	65.34	-24.50	31.15	9.64	0.05	QP																																																																																																																
3	0.174	25.25	54.77	-29.52	15.56	9.63	0.06	Average																																																																																																																
4	0.174	37.46	64.77	-27.31	27.77	9.63	0.06	QP																																																																																																																
5	0.524	30.01	46.00	-15.99	20.29	9.63	0.09	Average																																																																																																																
6	0.524	37.51	56.00	-18.49	27.79	9.63	0.09	QP																																																																																																																
7	1.043	21.05	46.00	-24.95	11.30	9.63	0.12	Average																																																																																																																
8	1.043	35.51	56.00	-20.49	25.76	9.63	0.12	QP																																																																																																																
9	4.454	32.91	46.00	-13.09	22.96	9.65	0.30	Average																																																																																																																
10*	4.454	47.80	56.00	-8.20	37.85	9.65	0.30	QP																																																																																																																
11	22.063	19.80	50.00	-30.20	9.42	9.70	0.68	Average																																																																																																																
12	22.063	23.48	60.00	-36.52	13.10	9.70	0.68	QP																																																																																																																

Modulation	VHT20	Test Freq. (MHz)	5580
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

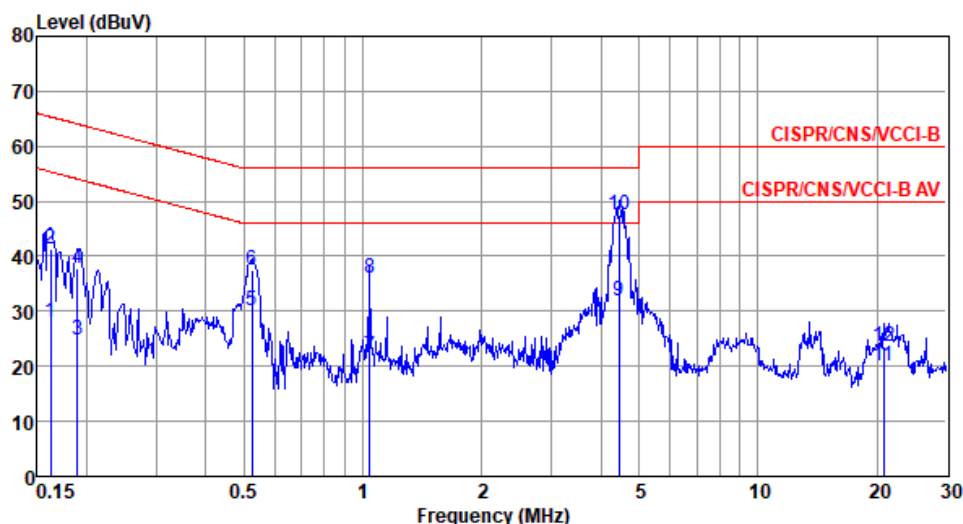
Humidity: 63%

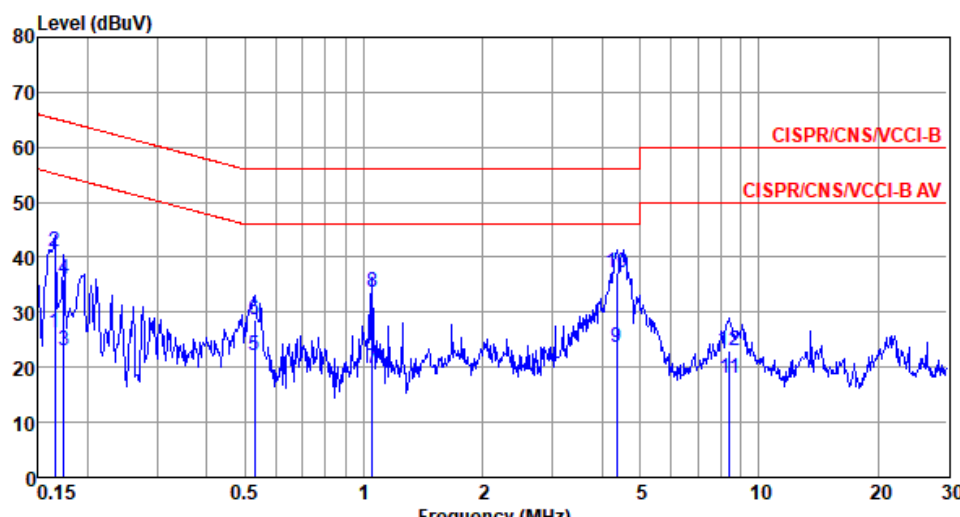


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.168	25.27	55.08	-29.81	15.56	9.66	0.05	Average
2	0.168	40.07	65.08	-25.01	30.36	9.66	0.05	QP
3	0.198	22.24	53.71	-31.47	12.53	9.65	0.06	Average
4	0.198	37.28	63.71	-26.43	27.57	9.65	0.06	QP
5	0.524	20.81	46.00	-25.19	11.07	9.65	0.09	Average
6	0.524	27.95	56.00	-28.05	18.21	9.65	0.09	QP
7	1.037	18.90	46.00	-27.10	9.13	9.65	0.12	Average
8	1.037	32.26	56.00	-23.74	22.49	9.65	0.12	QP
9	4.430	23.16	46.00	-22.84	13.18	9.68	0.30	Average
10*	4.430	36.40	56.00	-19.60	26.42	9.68	0.30	QP
11	9.011	17.81	50.00	-32.19	7.71	9.72	0.38	Average
12	9.011	22.85	60.00	-37.15	12.75	9.72	0.38	QP

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

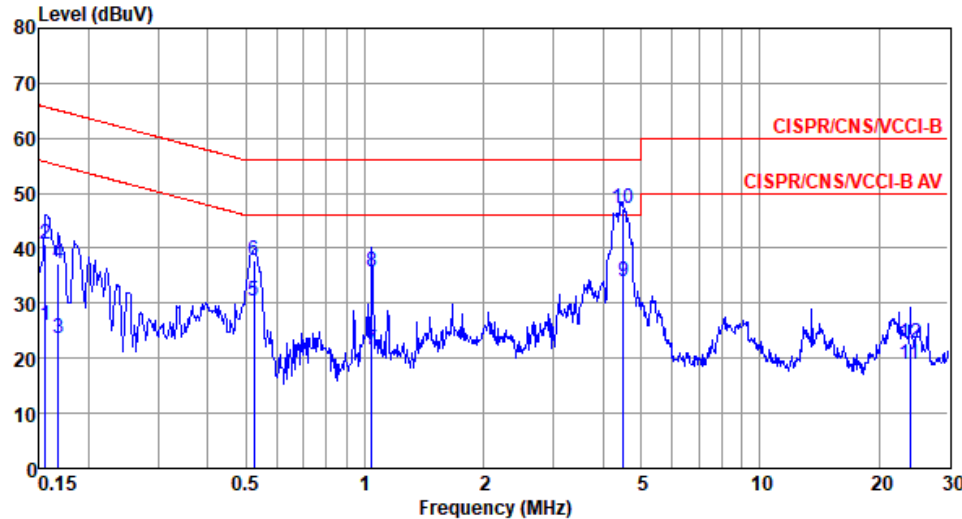
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	VHT20	Test Freq. (MHz)	5745																																																																																																																					
Power Phase	Line																																																																																																																							
Test by : Alex Tsai Temperature: 24°C Humidity: 63%																																																																																																																								
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>LISN factor dB</th><th>cable loss dB</th><th>Remark</th></tr><tr><td>1</td><td>0.162</td><td>28.09</td><td>55.34</td><td>-27.25</td><td>18.40</td><td>9.64</td><td>0.05</td><td>Average</td></tr><tr><td>2</td><td>0.162</td><td>41.42</td><td>65.34</td><td>-23.92</td><td>31.73</td><td>9.64</td><td>0.05</td><td>QP</td></tr><tr><td>3</td><td>0.189</td><td>24.83</td><td>54.06</td><td>-29.23</td><td>15.14</td><td>9.63</td><td>0.06</td><td>Average</td></tr><tr><td>4</td><td>0.189</td><td>37.77</td><td>64.06</td><td>-26.29</td><td>28.08</td><td>9.63</td><td>0.06</td><td>QP</td></tr><tr><td>5</td><td>0.524</td><td>30.21</td><td>46.00</td><td>-15.79</td><td>20.49</td><td>9.63</td><td>0.09</td><td>Average</td></tr><tr><td>6</td><td>0.524</td><td>37.54</td><td>56.00</td><td>-18.46</td><td>27.82</td><td>9.63</td><td>0.09</td><td>QP</td></tr><tr><td>7</td><td>1.043</td><td>21.80</td><td>46.00</td><td>-24.20</td><td>12.05</td><td>9.63</td><td>0.12</td><td>Average</td></tr><tr><td>8</td><td>1.043</td><td>36.10</td><td>56.00</td><td>-19.90</td><td>26.35</td><td>9.63</td><td>0.12</td><td>QP</td></tr><tr><td>9</td><td>4.454</td><td>32.02</td><td>46.00</td><td>-13.98</td><td>22.07</td><td>9.65</td><td>0.30</td><td>Average</td></tr><tr><td>10*</td><td>4.454</td><td>47.61</td><td>56.00</td><td>-8.39</td><td>37.66</td><td>9.65</td><td>0.30</td><td>QP</td></tr><tr><td>11</td><td>20.814</td><td>19.95</td><td>50.00</td><td>-30.05</td><td>9.57</td><td>9.71</td><td>0.67</td><td>Average</td></tr><tr><td>12</td><td>20.814</td><td>23.57</td><td>60.00</td><td>-36.43</td><td>13.19</td><td>9.71</td><td>0.67</td><td>QP</td></tr></table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark	1	0.162	28.09	55.34	-27.25	18.40	9.64	0.05	Average	2	0.162	41.42	65.34	-23.92	31.73	9.64	0.05	QP	3	0.189	24.83	54.06	-29.23	15.14	9.63	0.06	Average	4	0.189	37.77	64.06	-26.29	28.08	9.63	0.06	QP	5	0.524	30.21	46.00	-15.79	20.49	9.63	0.09	Average	6	0.524	37.54	56.00	-18.46	27.82	9.63	0.09	QP	7	1.043	21.80	46.00	-24.20	12.05	9.63	0.12	Average	8	1.043	36.10	56.00	-19.90	26.35	9.63	0.12	QP	9	4.454	32.02	46.00	-13.98	22.07	9.65	0.30	Average	10*	4.454	47.61	56.00	-8.39	37.66	9.65	0.30	QP	11	20.814	19.95	50.00	-30.05	9.57	9.71	0.67	Average	12	20.814	23.57	60.00	-36.43	13.19	9.71	0.67	QP
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Modulation	VHT20	Test Freq. (MHz)	5745																																																																																																																														
Power Phase	Neutral																																																																																																																																
Test by : Alex Tsai Temperature: 24°C Humidity: 63%																																																																																																																																	
Level (dBuV)  <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>LISN</th><th>cable</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB</th><th></th></tr></thead><tbody><tr><td>1</td><td>0.165</td><td>26.35</td><td>55.21</td><td>-28.86</td><td>16.64</td><td>9.66</td><td>0.05</td><td>Average</td></tr><tr><td>2</td><td>0.165</td><td>41.01</td><td>65.21</td><td>-24.20</td><td>31.30</td><td>9.66</td><td>0.05</td><td>QP</td></tr><tr><td>3</td><td>0.174</td><td>23.04</td><td>54.77</td><td>-31.73</td><td>13.33</td><td>9.65</td><td>0.06</td><td>Average</td></tr><tr><td>4</td><td>0.174</td><td>35.96</td><td>64.77</td><td>-28.81</td><td>26.25</td><td>9.65</td><td>0.06</td><td>QP</td></tr><tr><td>5</td><td>0.529</td><td>22.26</td><td>46.00</td><td>-23.74</td><td>12.52</td><td>9.65</td><td>0.09</td><td>Average</td></tr><tr><td>6</td><td>0.529</td><td>28.72</td><td>56.00</td><td>-27.28</td><td>18.98</td><td>9.65</td><td>0.09</td><td>QP</td></tr><tr><td>7</td><td>1.049</td><td>19.79</td><td>46.00</td><td>-26.21</td><td>10.02</td><td>9.65</td><td>0.12</td><td>Average</td></tr><tr><td>8</td><td>1.049</td><td>33.63</td><td>56.00</td><td>-22.37</td><td>23.86</td><td>9.65</td><td>0.12</td><td>QP</td></tr><tr><td>9</td><td>4.361</td><td>23.74</td><td>46.00</td><td>-22.26</td><td>13.76</td><td>9.68</td><td>0.30</td><td>Average</td></tr><tr><td>10*</td><td>4.361</td><td>37.11</td><td>56.00</td><td>-18.89</td><td>27.13</td><td>9.68</td><td>0.30</td><td>QP</td></tr><tr><td>11</td><td>8.412</td><td>17.97</td><td>50.00</td><td>-32.03</td><td>7.88</td><td>9.72</td><td>0.37</td><td>Average</td></tr><tr><td>12</td><td>8.412</td><td>22.94</td><td>60.00</td><td>-37.06</td><td>12.85</td><td>9.72</td><td>0.37</td><td>QP</td></tr></tbody></table>					Freq	Level	Limit	Over	Read	LISN	cable	Remark		MHz	dBuV	dBuV	dB	dBuV	dB	dB		1	0.165	26.35	55.21	-28.86	16.64	9.66	0.05	Average	2	0.165	41.01	65.21	-24.20	31.30	9.66	0.05	QP	3	0.174	23.04	54.77	-31.73	13.33	9.65	0.06	Average	4	0.174	35.96	64.77	-28.81	26.25	9.65	0.06	QP	5	0.529	22.26	46.00	-23.74	12.52	9.65	0.09	Average	6	0.529	28.72	56.00	-27.28	18.98	9.65	0.09	QP	7	1.049	19.79	46.00	-26.21	10.02	9.65	0.12	Average	8	1.049	33.63	56.00	-22.37	23.86	9.65	0.12	QP	9	4.361	23.74	46.00	-22.26	13.76	9.68	0.30	Average	10*	4.361	37.11	56.00	-18.89	27.13	9.68	0.30	QP	11	8.412	17.97	50.00	-32.03	7.88	9.72	0.37	Average	12	8.412	22.94	60.00	-37.06	12.85	9.72	0.37	QP
	Freq	Level	Limit	Over	Read	LISN	cable	Remark																																																																																																																									
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With model: ST60-2230C-PU

3.1.5 Test Result of Conducted Emissions

Modulation	VHT20	Test Freq. (MHz)	5580																																																																																																																					
Power Phase	Line																																																																																																																							
Test by : Alex Tsai Temperature: 24°C Humidity: 63%																																																																																																																								
Level (dBuV)  Frequency (MHz) <table><thead><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>LISN factor dB</th><th>cable loss dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.156</td><td>26.11</td><td>55.69</td><td>-29.58</td><td>16.42</td><td>9.64</td><td>0.05</td><td>Average</td></tr><tr><td>2</td><td>0.156</td><td>40.71</td><td>65.69</td><td>-24.98</td><td>31.02</td><td>9.64</td><td>0.05</td><td>QP</td></tr><tr><td>3</td><td>0.168</td><td>23.70</td><td>55.08</td><td>-31.38</td><td>14.01</td><td>9.64</td><td>0.05</td><td>Average</td></tr><tr><td>4</td><td>0.168</td><td>37.06</td><td>65.08</td><td>-28.02</td><td>27.37</td><td>9.64</td><td>0.05</td><td>QP</td></tr><tr><td>5</td><td>0.524</td><td>30.38</td><td>46.00</td><td>-15.62</td><td>20.66</td><td>9.63</td><td>0.09</td><td>Average</td></tr><tr><td>6</td><td>0.524</td><td>37.81</td><td>56.00</td><td>-18.19</td><td>28.09</td><td>9.63</td><td>0.09</td><td>QP</td></tr><tr><td>7</td><td>1.043</td><td>21.44</td><td>46.00</td><td>-24.56</td><td>11.69</td><td>9.63</td><td>0.12</td><td>Average</td></tr><tr><td>8</td><td>1.043</td><td>35.86</td><td>56.00</td><td>-20.14</td><td>26.11</td><td>9.63</td><td>0.12</td><td>QP</td></tr><tr><td>9</td><td>4.501</td><td>33.81</td><td>46.00</td><td>-12.19</td><td>23.85</td><td>9.66</td><td>0.30</td><td>Average</td></tr><tr><td>10*</td><td>4.501</td><td>47.32</td><td>56.00</td><td>-8.68</td><td>37.36</td><td>9.66</td><td>0.30</td><td>QP</td></tr><tr><td>11</td><td>24.015</td><td>19.03</td><td>50.00</td><td>-30.97</td><td>8.66</td><td>9.67</td><td>0.70</td><td>Average</td></tr><tr><td>12</td><td>24.015</td><td>22.81</td><td>60.00</td><td>-37.19</td><td>12.44</td><td>9.67</td><td>0.70</td><td>QP</td></tr></tbody></table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark	1	0.156	26.11	55.69	-29.58	16.42	9.64	0.05	Average	2	0.156	40.71	65.69	-24.98	31.02	9.64	0.05	QP	3	0.168	23.70	55.08	-31.38	14.01	9.64	0.05	Average	4	0.168	37.06	65.08	-28.02	27.37	9.64	0.05	QP	5	0.524	30.38	46.00	-15.62	20.66	9.63	0.09	Average	6	0.524	37.81	56.00	-18.19	28.09	9.63	0.09	QP	7	1.043	21.44	46.00	-24.56	11.69	9.63	0.12	Average	8	1.043	35.86	56.00	-20.14	26.11	9.63	0.12	QP	9	4.501	33.81	46.00	-12.19	23.85	9.66	0.30	Average	10*	4.501	47.32	56.00	-8.68	37.36	9.66	0.30	QP	11	24.015	19.03	50.00	-30.97	8.66	9.67	0.70	Average	12	24.015	22.81	60.00	-37.19	12.44	9.67	0.70	QP
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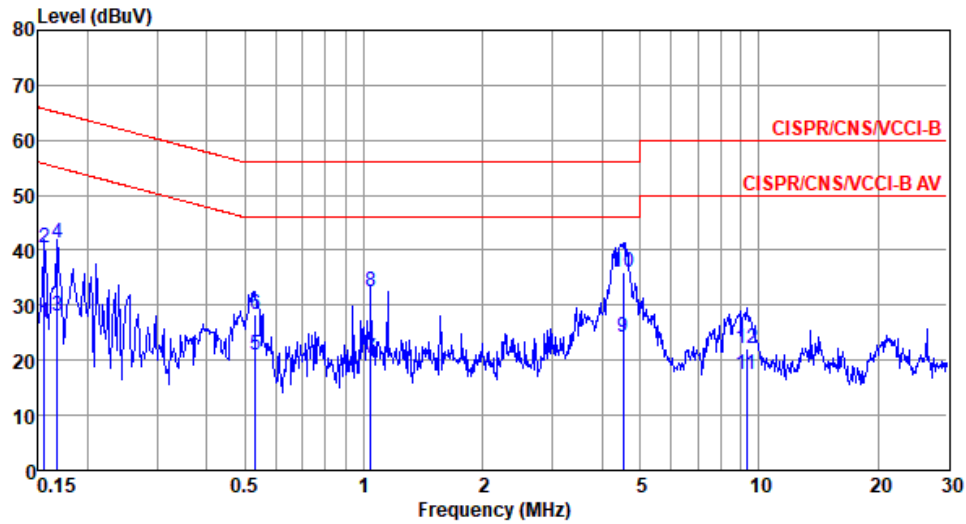
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	VHT20	Test Freq. (MHz)	5580
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 63%



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.156	26.79	55.69	-28.90	17.08	9.66	0.05	Average
2	0.156	40.31	65.69	-25.38	30.60	9.66	0.05	QP
3	0.168	27.99	55.08	-27.09	18.28	9.66	0.05	Average
4	0.168	41.38	65.08	-23.70	31.67	9.66	0.05	QP
5	0.532	20.86	46.00	-25.14	11.12	9.65	0.09	Average
6	0.532	28.46	56.00	-27.54	18.72	9.65	0.09	QP
7	1.043	20.35	46.00	-25.65	10.58	9.65	0.12	Average
8	1.043	32.54	56.00	-23.46	22.77	9.65	0.12	QP
9	4.525	24.12	46.00	-21.88	14.14	9.68	0.30	Average
10*	4.525	36.15	56.00	-19.85	26.17	9.68	0.30	QP
11	9.302	17.53	50.00	-32.47	7.42	9.73	0.38	Average
12	9.302	22.13	60.00	-37.87	12.02	9.73	0.38	QP

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

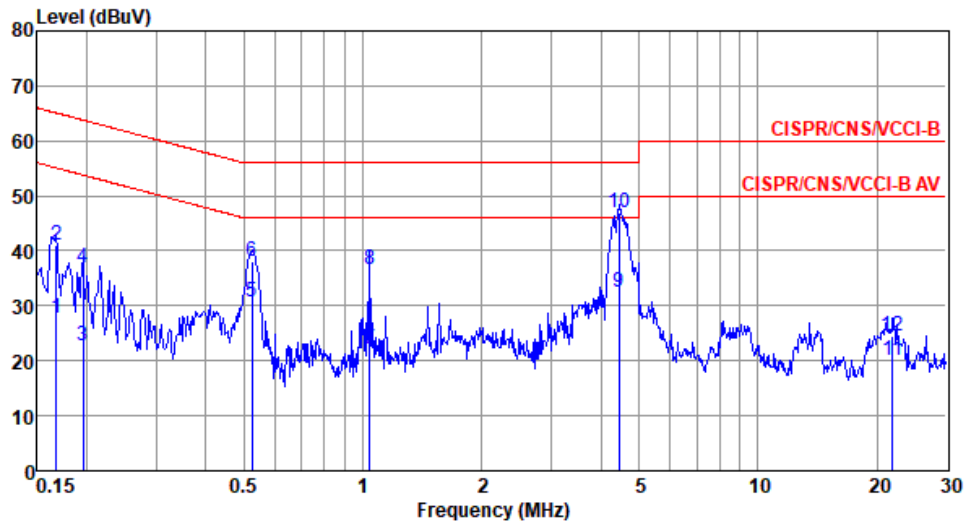
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	VHT20	Test Freq. (MHz)	5745
Power Phase	Line		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 63%



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.168	27.67	55.08	-27.41	17.98	9.64	0.05	Average
2	0.168	41.16	65.08	-23.92	31.47	9.64	0.05	QP
3	0.195	22.69	53.80	-31.11	13.00	9.63	0.06	Average
4	0.195	36.83	63.80	-26.97	27.14	9.63	0.06	QP
5	0.524	30.58	46.00	-15.42	20.86	9.63	0.09	Average
6	0.524	38.22	56.00	-17.78	28.50	9.63	0.09	QP
7	1.043	22.25	46.00	-23.75	12.50	9.63	0.12	Average
8	1.043	36.71	56.00	-19.29	26.96	9.63	0.12	QP
9	4.454	32.61	46.00	-13.39	22.66	9.65	0.30	Average
10*	4.454	47.03	56.00	-8.97	37.08	9.65	0.30	QP
11	21.946	20.20	50.00	-29.80	9.82	9.70	0.68	Average
12	21.946	24.42	60.00	-35.58	14.04	9.70	0.68	QP

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

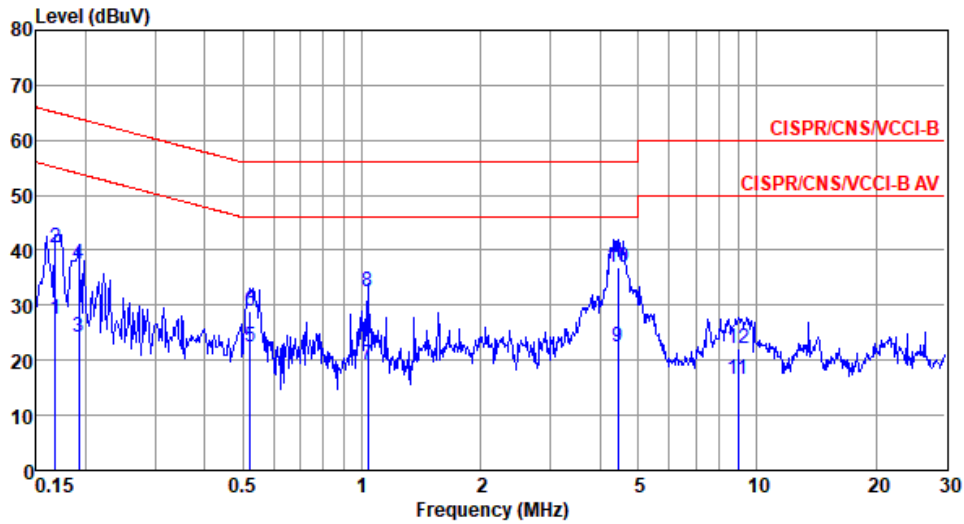
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	VHT20	Test Freq. (MHz)	5745
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 63%



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.168	27.56	55.08	-27.52	17.85	9.66	0.05	Average
2	0.168	40.57	65.08	-24.51	30.86	9.66	0.05	QP
3	0.192	24.18	53.93	-29.75	14.47	9.65	0.06	Average
4	0.192	37.56	63.93	-26.37	27.85	9.65	0.06	QP
5	0.521	22.55	46.00	-23.45	12.81	9.65	0.09	Average
6	0.521	28.99	56.00	-27.01	19.25	9.65	0.09	QP
7	1.037	19.22	46.00	-26.78	9.45	9.65	0.12	Average
8	1.037	32.36	56.00	-23.64	22.59	9.65	0.12	QP
9	4.454	22.31	46.00	-23.69	12.33	9.68	0.30	Average
10*	4.454	37.04	56.00	-18.96	27.06	9.68	0.30	QP
11	8.964	16.68	50.00	-33.32	6.58	9.72	0.38	Average
12	8.964	22.17	60.00	-37.83	12.07	9.72	0.38	QP

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

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

3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.2.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

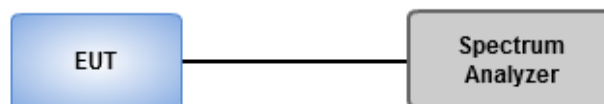
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW
2. Set VBW $\geq$ 3 RBW
3. Sample detection and single sweep mode shall be used
4. Use the 99 % power bandwidth function of the instrument

6dB Bandwidth

1. Set resolution bandwidth (RBW) = 1% to 5% of the anticipated emission, Video bandwidth = 3x the RBW.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

Ambient Condition	22°C / 64%	Tested By	Brad Wu
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Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.072M	16.556M	16M6D1D	19.71M	16.556M
802.11ac VHT20_Nss1,(MCS0)_2TX	20.362M	17.656M	17M7D1D	19.928M	17.598M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.87M	36.237M	36M2D1D	40.145M	36.122M

Max-N dB = Maximum26dB down bandwidth

Max-OBW = Maximum99% occupied bandwidth

Min-N dB =Maximum26dB down bandwidth

Min-OBW = Minimum99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5500MHz	Pass	Inf	19.71M	16.556M	20M	16.556M
5700MHz	Pass	Inf	19.855M	16.556M	20.072M	16.556M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5500MHz	Pass	Inf	19.928M	17.656M	20.362M	17.598M
5700MHz	Pass	Inf	20M	17.656M	20.145M	17.598M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5670MHz	Pass	Inf	40.145M	36.122M	40.87M	36.237M

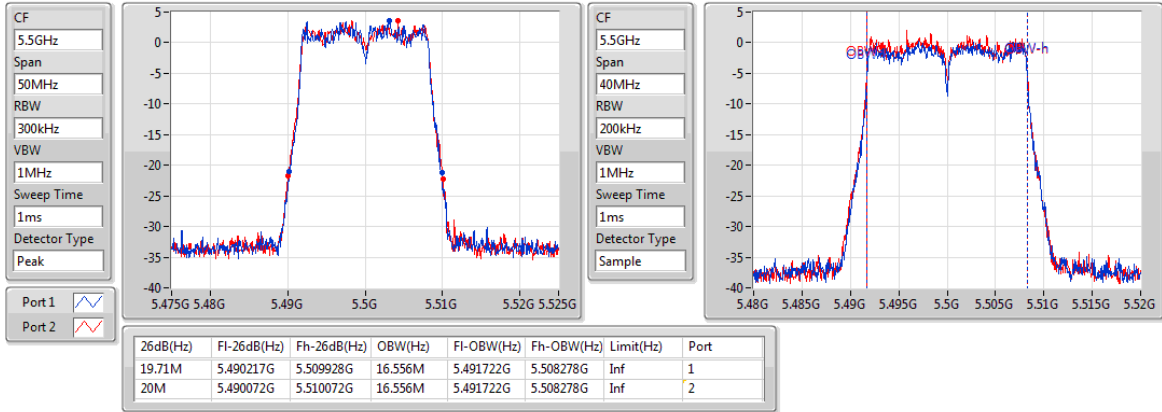
Port X-N dB = 26dB down bandwidth

Port X-OBW = Port X99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

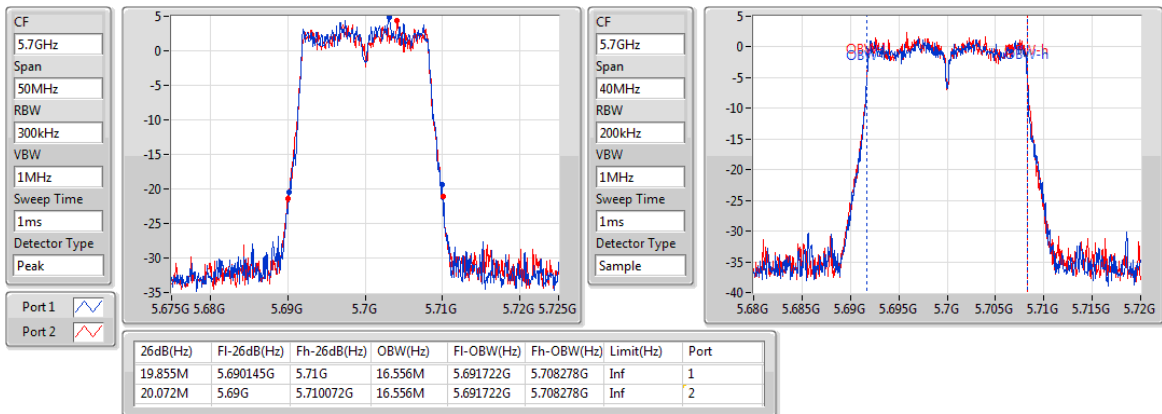
5500MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

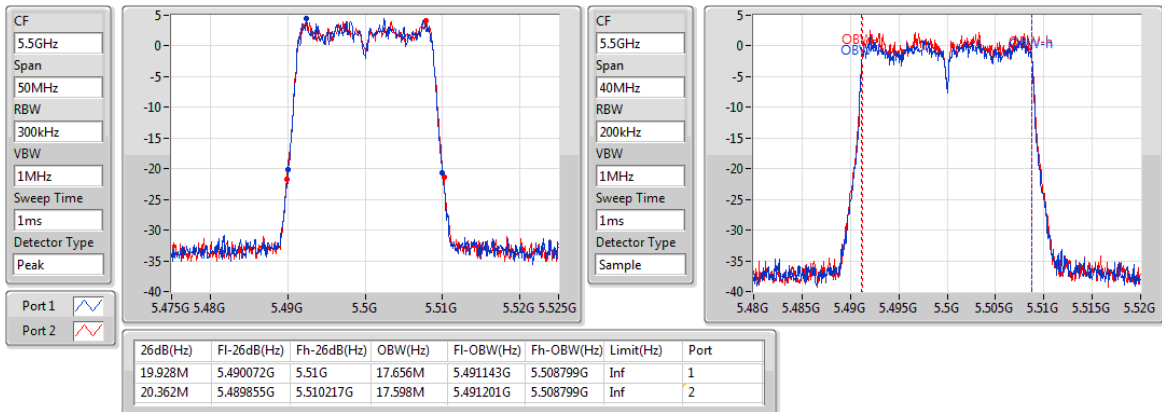
5700MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

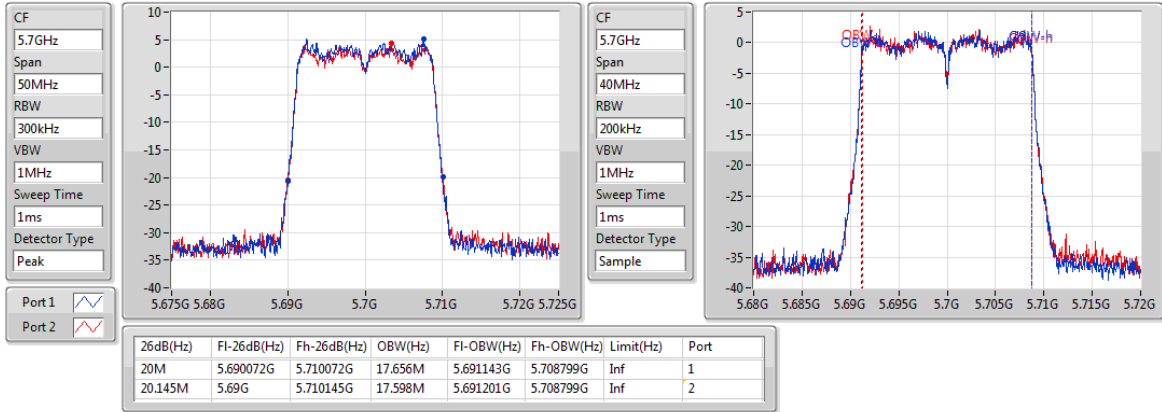
5500MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

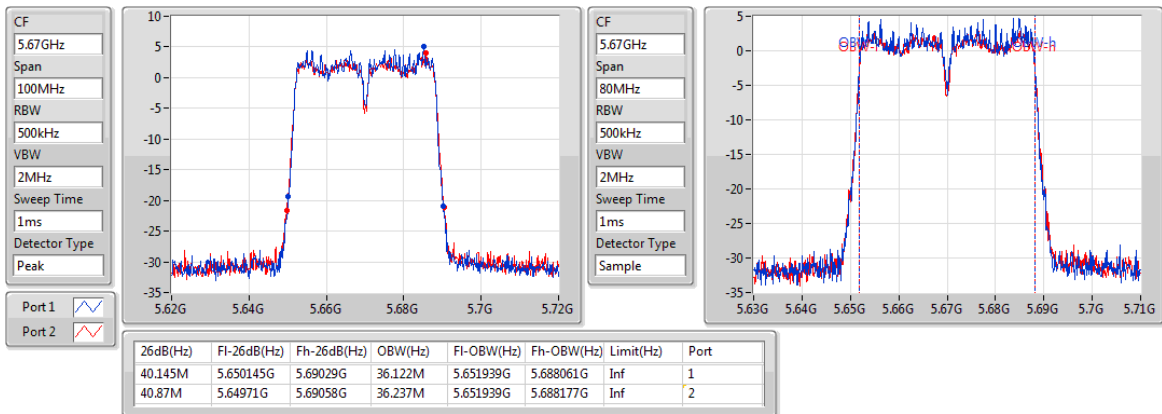
5700MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5670MHz



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency Band (MHz)		Limit	
☒	5150 ~ 5250	EIRP: 200mW or 10dBm+10 log B	
☒	5250 ~ 5350	Conducted Power	250mW or 11dBm+10 log B
		EIRP	1W or 17dBm+10 log B
☒	5470 ~ 5600 and 5650 ~ 5725	Conducted Power	250mW or 11dBm+10 log B
		EIRP	1W or 17dBm+10 log B
☒	5725 ~ 5850	Conducted Power: 1 W	
Note: “B” is the 99% Occupied Bandwidth in MHz.			

3.3.2 Test Procedures

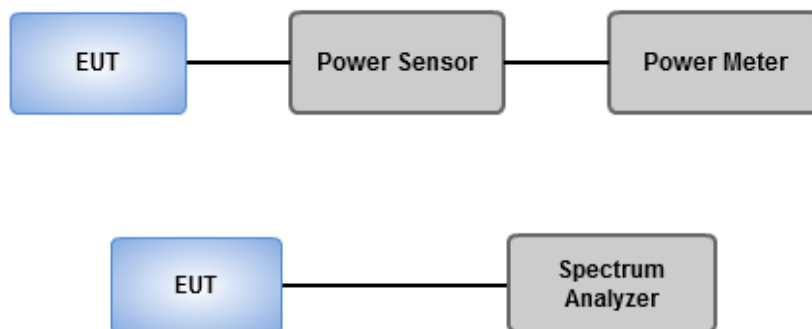
Method PM-G (Measurement using a gated RF average power meter)

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%).

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Ambient Condition	22°C / 64%	Tested By	Brad Wu
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Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	17.11	0.05140	21.11	0.12912
802.11ac VHT20_Nss1,(MCS0)_2TX	17.36	0.05445	21.36	0.13677
802.11ac VHT40_Nss1,(MCS0)_2TX	16.83	0.04819	20.83	0.12106

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	-	-	-	-	-	-	-	-
5500MHz	Pass	4.00	14.12	14.07	17.11	23.19	21.11	29.19
5700MHz	Pass	4.00	12.85	12.67	15.77	23.19	19.77	29.19
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5500MHz	Pass	4.00	14.41	14.28	17.36	23.45	21.36	29.45
5700MHz	Pass	4.00	14.03	13.71	16.88	23.45	20.88	29.45
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5670MHz	Pass	4.00	14.05	13.57	16.83	24.00	20.83	30.00

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

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency Band (MHz)		Limit
☒	5150 ~ 5250	The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
☒	5250 ~ 5350	The power spectral density shall not exceed 11 dBm in any 1.0 MHz band
☒	5470 ~ 5600 and 5650 ~ 5725	The power spectral density shall not exceed 11 dBm in any 1.0 MHz band
☒	5725 ~ 5850	The power spectral density shall not exceed 30 dBm in any 500 kHz band.

3.4.2 Test Procedures

For 5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 MHz

Duty cycle $\geq$ 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $<$ 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725 ~ 5850 MHz

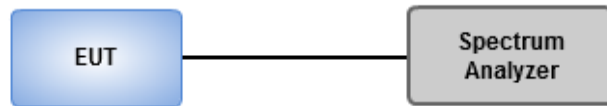
Duty cycle $\geq$ 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $<$ 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Ambient Condition	22°C / 64%	Tested By	Brad Wu
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Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	3.72	10.73
802.11ac VHT20_Nss1,(MCS0)_2TX	4.25	11.26
802.11ac VHT40_Nss1,(MCS0)_2TX	0.84	7.85

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5500MHz	Pass	7.01	0.62	1.29	3.72	9.99	10.73	17.00
5700MHz	Pass	7.01	-0.51	-0.27	2.60	9.99	9.61	17.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5500MHz	Pass	7.01	1.22	1.50	4.25	9.99	11.26	17.00
5700MHz	Pass	7.01	1.26	0.85	3.81	9.99	10.82	17.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5670MHz	Pass	7.01	-2.08	-2.09	0.84	9.99	7.85	17.00

DG = Directional Gain = $4 + 10 \cdot \log(2/1) = 7.01 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to 11 dBm – (7.01 dBi – 6 dBi) = 9.99 dBm

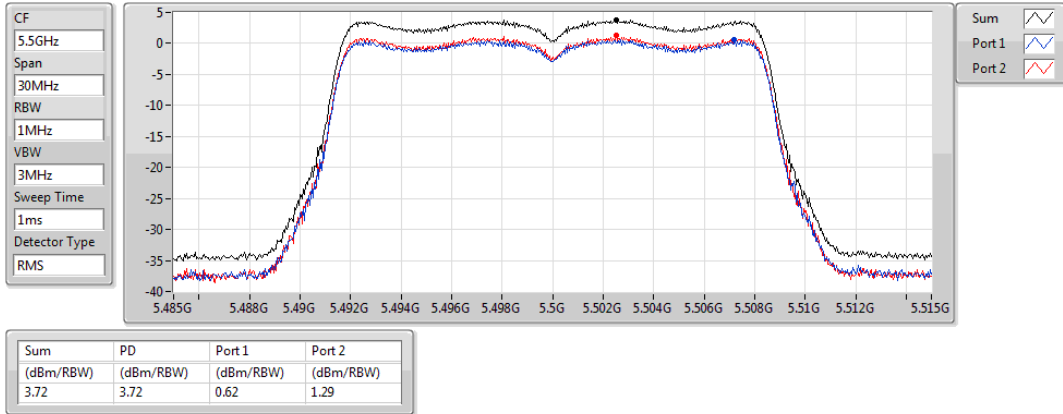
RBW = 1MHz

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX

PSD

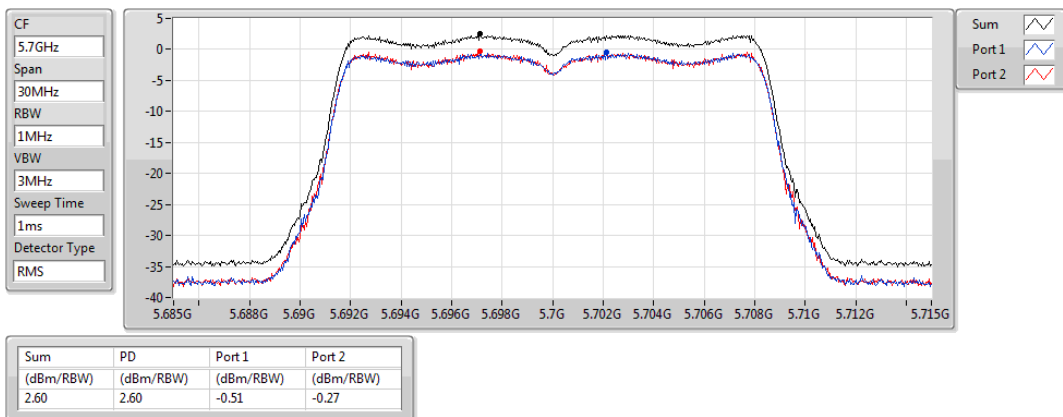
5500MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

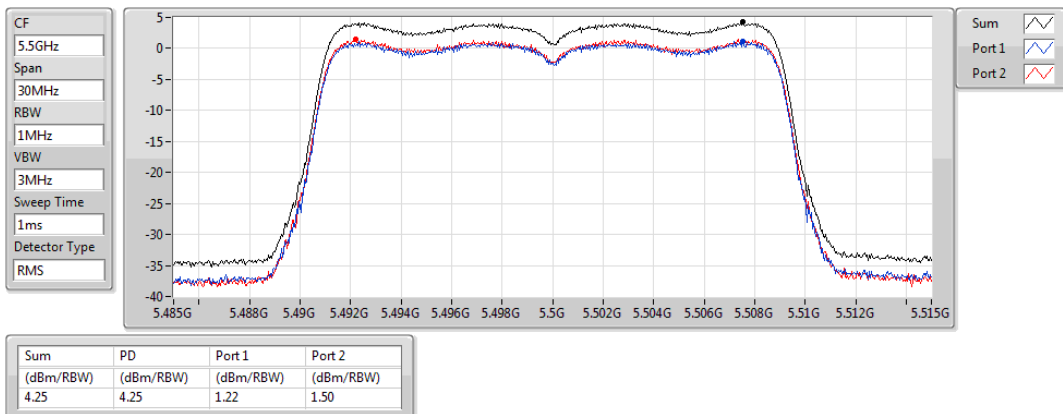
5700MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

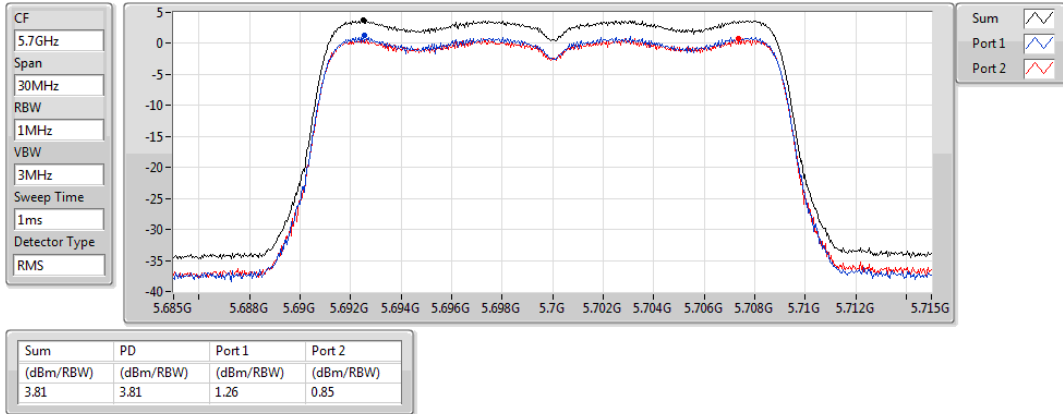
5500MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

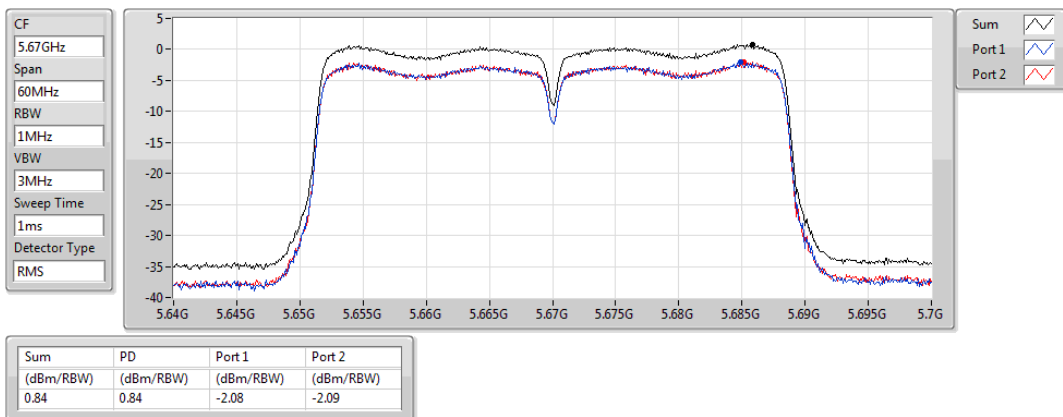
5700MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5670MHz



3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 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	a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

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).

3.5.2 Test Procedures

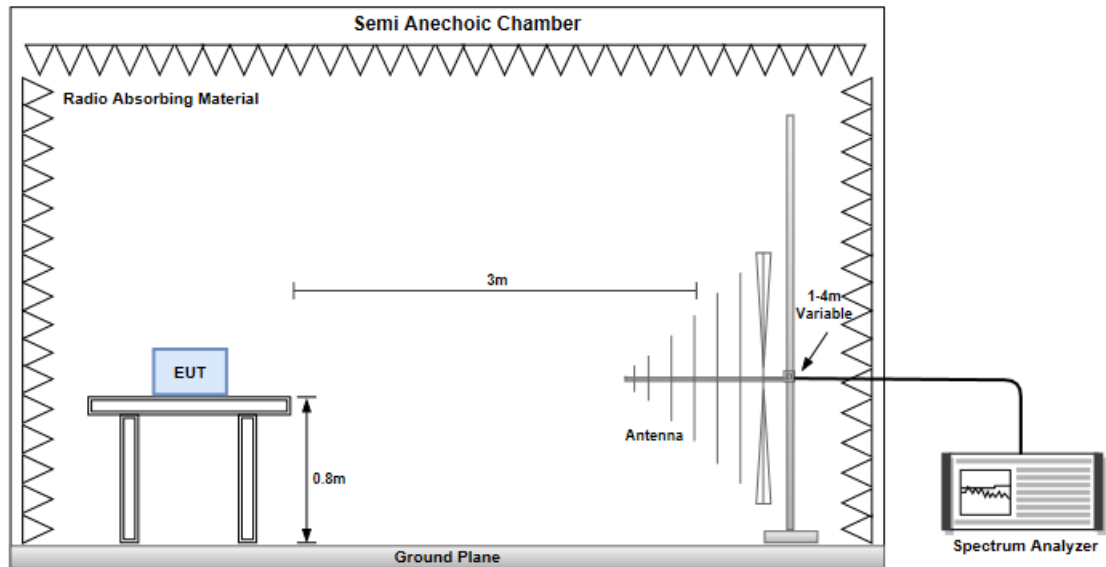
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

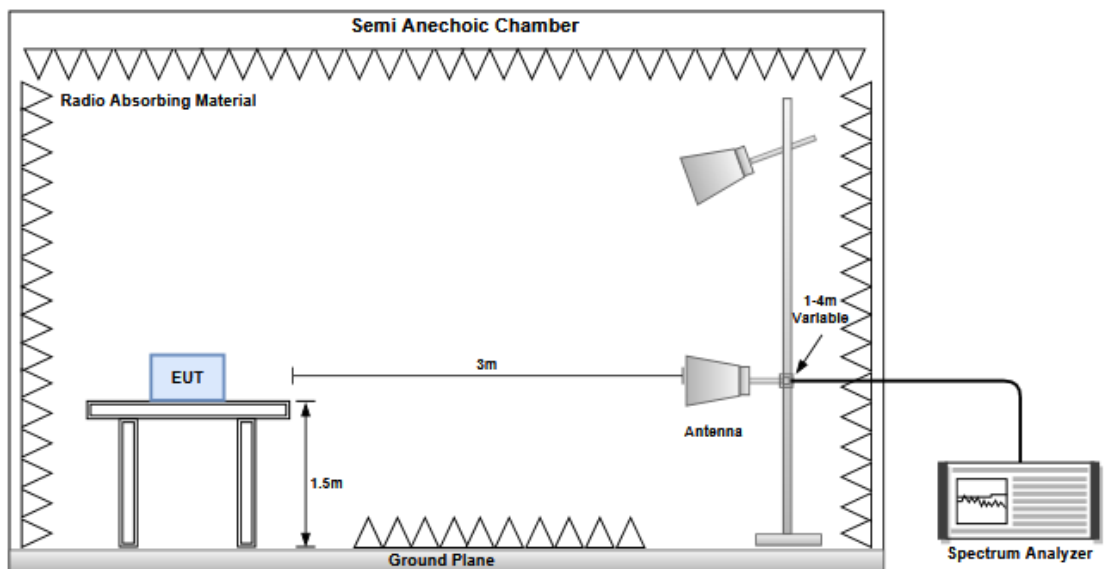
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



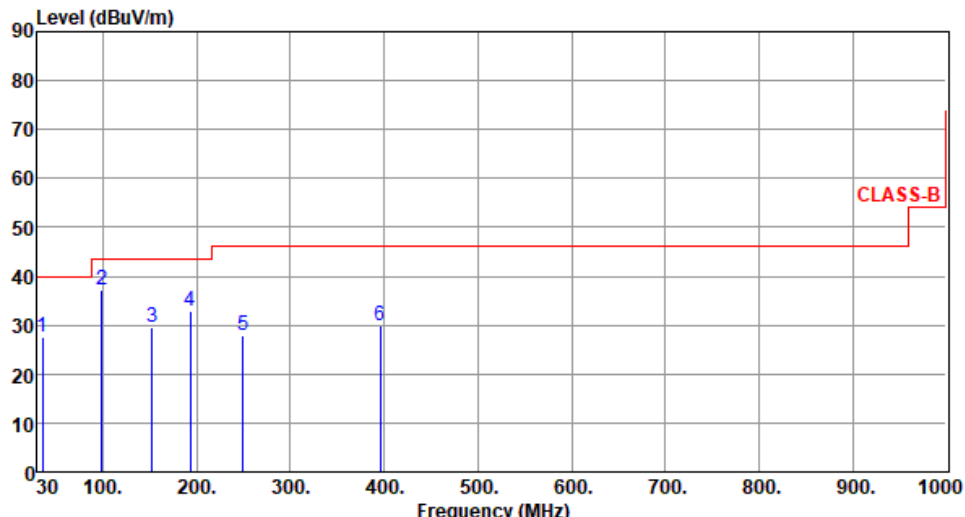
Configuration 1: Dipole Antenna

With model: ST60-2230C-P

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):25 Humidity(%):63			
Level (dBUV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):25 Humidity(%):63			
Level (dBUV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5745																																																																						
Polarization	Horizontal																																																																								
Test By :BRAD WU Temperature(°C):25 Humidity(%):63																																																																									
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>35.77</td><td>27.46</td><td>40.00</td><td>-12.54</td><td>37.10</td><td>-9.64</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>98.78</td><td>37.29</td><td>43.50</td><td>-6.21</td><td>51.49</td><td>-14.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>152.31</td><td>29.42</td><td>43.50</td><td>-14.08</td><td>38.60</td><td>-9.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>192.88</td><td>32.74</td><td>43.50</td><td>-10.76</td><td>44.96</td><td>-12.22</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>249.31</td><td>27.84</td><td>46.00</td><td>-18.16</td><td>38.19</td><td>-10.35</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>395.55</td><td>29.87</td><td>46.00</td><td>-16.13</td><td>35.93</td><td>-6.06</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	35.77	27.46	40.00	-12.54	37.10	-9.64	Peak	---	---	2	98.78	37.29	43.50	-6.21	51.49	-14.20	Peak	---	---	3	152.31	29.42	43.50	-14.08	38.60	-9.18	Peak	---	---	4	192.88	32.74	43.50	-10.76	44.96	-12.22	Peak	---	---	5	249.31	27.84	46.00	-18.16	38.19	-10.35	Peak	---	---	6	395.55	29.87	46.00	-16.13	35.93	-6.06	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
1	35.77	27.46	40.00	-12.54	37.10	-9.64	Peak	---	---																																																																
2	98.78	37.29	43.50	-6.21	51.49	-14.20	Peak	---	---																																																																
3	152.31	29.42	43.50	-14.08	38.60	-9.18	Peak	---	---																																																																
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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). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																									

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):25 Humidity(%):63			
Level (dBuV/m)			

With model: ST60-2230C-PU

3.5.5 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) <			

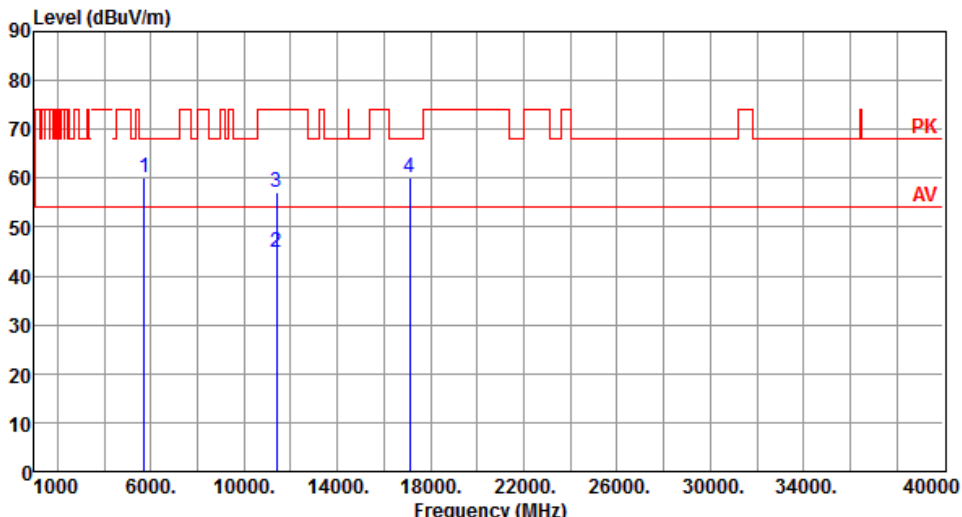
Modulation	VHT20	Test Freq. (MHz)	5745																																																																						
Polarization	Vertical																																																																								
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																																									
Level (dBuV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>30.88</td><td>36.44</td><td>40.00</td><td>-3.56</td><td>46.57</td><td>-10.13</td><td>QP</td><td>100</td><td>183</td></tr><tr><td>2</td><td>98.52</td><td>31.44</td><td>43.50</td><td>-12.06</td><td>45.64</td><td>-14.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>149.35</td><td>26.81</td><td>43.50</td><td>-16.69</td><td>35.89</td><td>-9.08</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>208.58</td><td>27.54</td><td>43.50</td><td>-15.96</td><td>39.94</td><td>-12.40</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>374.58</td><td>24.86</td><td>46.00</td><td>-21.14</td><td>31.53</td><td>-6.67</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>633.55</td><td>28.49</td><td>46.00</td><td>-17.51</td><td>28.43</td><td>0.06</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	30.88	36.44	40.00	-3.56	46.57	-10.13	QP	100	183	2	98.52	31.44	43.50	-12.06	45.64	-14.20	Peak	---	---	3	149.35	26.81	43.50	-16.69	35.89	-9.08	Peak	---	---	4	208.58	27.54	43.50	-15.96	39.94	-12.40	Peak	---	---	5	374.58	24.86	46.00	-21.14	31.53	-6.67	Peak	---	---	6	633.55	28.49	46.00	-17.51	28.43	0.06	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
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2	98.52	31.44	43.50	-12.06	45.64	-14.20	Peak	---	---																																																																
3	149.35	26.81	43.50	-16.69	35.89	-9.08	Peak	---	---																																																																
4	208.58	27.54	43.50	-15.96	39.94	-12.40	Peak	---	---																																																																
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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). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																									

With model: ST60-2230C-P

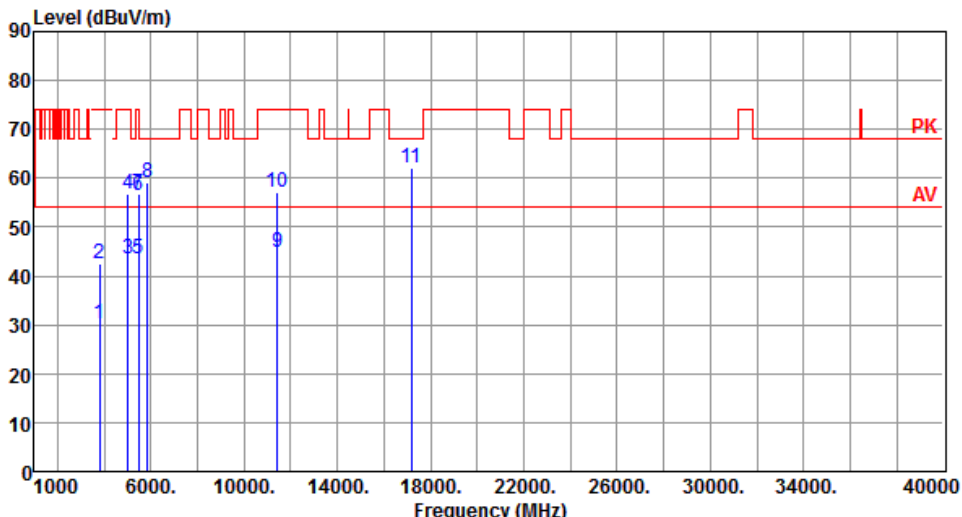
3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz)_11a

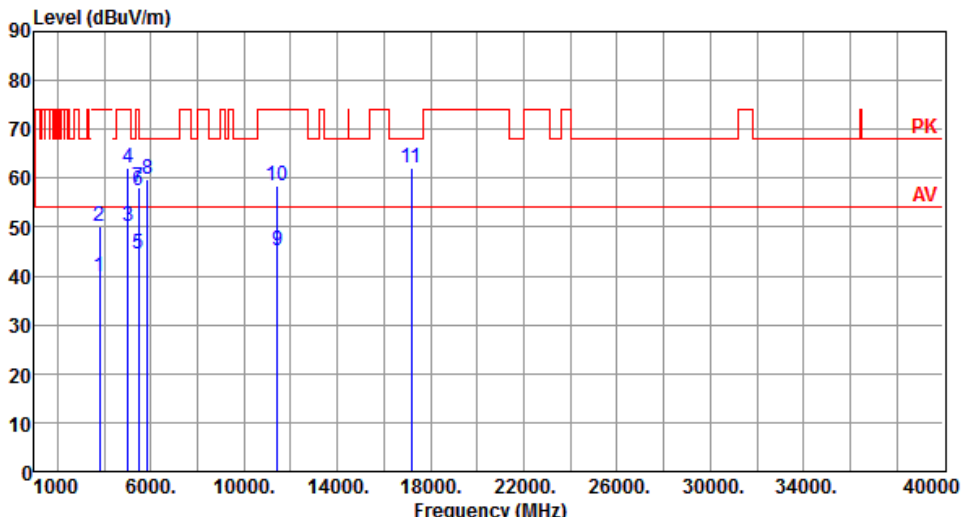
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBuV/m) </			

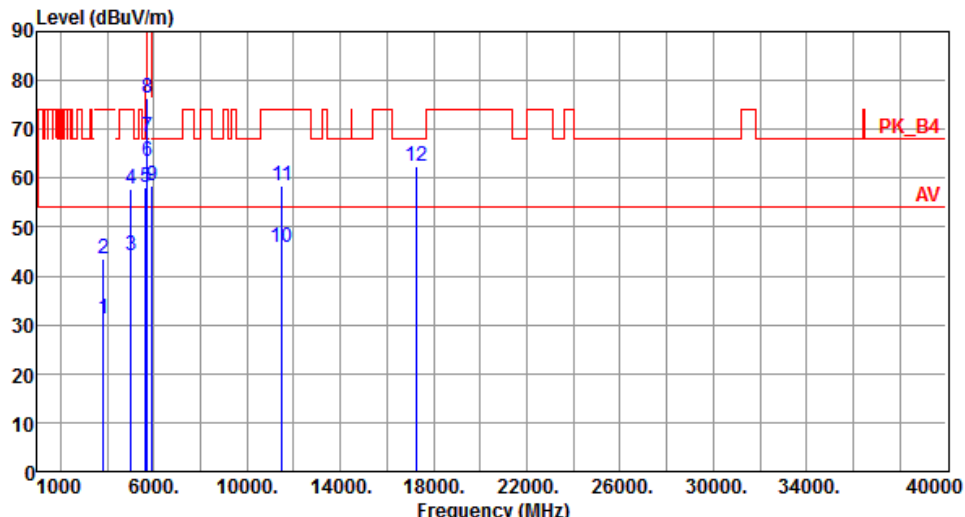
Modulation	11a	Test Freq. (MHz)	5700																																																		
Polarization	Horizontal																																																				
Test By :Roger Lu Temperature(℃):25 Humidity(%):61																																																					
Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5725.00</td><td>60.19</td><td>68.20</td><td>-8.01</td><td>53.06</td><td>7.13</td><td>Peak</td><td>100</td><td>66</td></tr><tr><td>2</td><td>11400.00</td><td>44.82</td><td>54.00</td><td>-9.18</td><td>28.66</td><td>16.16</td><td>Average</td><td>100</td><td>60</td></tr><tr><td>3</td><td>11400.00</td><td>57.18</td><td>74.00</td><td>-16.82</td><td>41.02</td><td>16.16</td><td>Peak</td><td>100</td><td>60</td></tr><tr><td>4</td><td>17100.00</td><td>60.20</td><td>68.20</td><td>-8.00</td><td>42.57</td><td>17.63</td><td>Peak</td><td>100</td><td>40</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5725.00	60.19	68.20	-8.01	53.06	7.13	Peak	100	66	2	11400.00	44.82	54.00	-9.18	28.66	16.16	Average	100	60	3	11400.00	57.18	74.00	-16.82	41.02	16.16	Peak	100	60	4	17100.00	60.20	68.20	-8.00	42.57	17.63	Peak	100	40
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																												
1	5725.00	60.19	68.20	-8.01	53.06	7.13	Peak	100	66																																												
2	11400.00	44.82	54.00	-9.18	28.66	16.16	Average	100	60																																												
3	11400.00	57.18	74.00	-16.82	41.02	16.16	Peak	100	60																																												
4	17100.00	60.20	68.20	-8.00	42.57	17.63	Peak	100	40																																												
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).																																																					

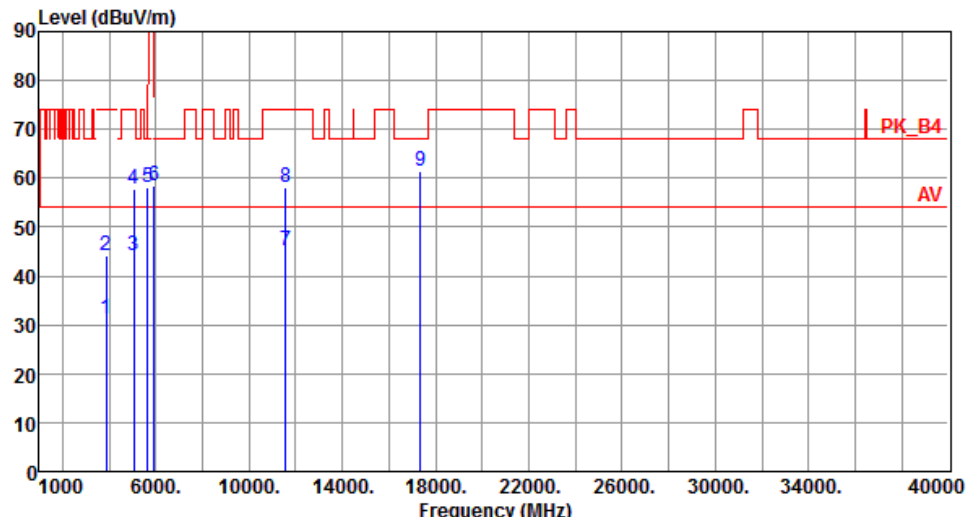
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5720																																																																																																																																												
Polarization	Horizontal																																																																																																																																														
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																																															
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</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>3813.33</td><td>30.34</td><td>54.00</td><td>-23.66</td><td>27.04</td><td>3.30</td><td>Average</td><td>100</td><td>24</td></tr><tr><td>2</td><td>3813.33</td><td>42.62</td><td>74.00</td><td>-31.38</td><td>39.32</td><td>3.30</td><td>Peak</td><td>100</td><td>24</td></tr><tr><td>3</td><td>5005.00</td><td>43.62</td><td>54.00</td><td>-10.38</td><td>37.26</td><td>6.36</td><td>Average</td><td>100</td><td>65</td></tr><tr><td>4</td><td>5005.00</td><td>56.69</td><td>74.00</td><td>-17.31</td><td>50.33</td><td>6.36</td><td>Peak</td><td>100</td><td>65</td></tr><tr><td>5</td><td>5460.00</td><td>43.53</td><td>54.00</td><td>-10.47</td><td>36.80</td><td>6.73</td><td>Average</td><td>100</td><td>65</td></tr><tr><td>6</td><td>5460.00</td><td>56.48</td><td>74.00</td><td>-17.52</td><td>49.75</td><td>6.73</td><td>Peak</td><td>100</td><td>65</td></tr><tr><td>7</td><td>5470.00</td><td>56.92</td><td>68.20</td><td>-11.28</td><td>50.16</td><td>6.76</td><td>Peak</td><td>100</td><td>65</td></tr><tr><td>8</td><td>5850.00</td><td>58.97</td><td>68.20</td><td>-9.23</td><td>51.49</td><td>7.48</td><td>Peak</td><td>100</td><td>65</td></tr><tr><td>9</td><td>11440.00</td><td>44.84</td><td>54.00</td><td>-9.16</td><td>28.67</td><td>16.17</td><td>Average</td><td>100</td><td>59</td></tr><tr><td>10</td><td>11440.00</td><td>57.23</td><td>74.00</td><td>-16.77</td><td>41.06</td><td>16.17</td><td>Peak</td><td>100</td><td>59</td></tr><tr><td>11</td><td>17160.00</td><td>62.25</td><td>68.20</td><td>-5.95</td><td>44.49</td><td>17.76</td><td>Peak</td><td>100</td><td>65</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	3813.33	30.34	54.00	-23.66	27.04	3.30	Average	100	24	2	3813.33	42.62	74.00	-31.38	39.32	3.30	Peak	100	24	3	5005.00	43.62	54.00	-10.38	37.26	6.36	Average	100	65	4	5005.00	56.69	74.00	-17.31	50.33	6.36	Peak	100	65	5	5460.00	43.53	54.00	-10.47	36.80	6.73	Average	100	65	6	5460.00	56.48	74.00	-17.52	49.75	6.73	Peak	100	65	7	5470.00	56.92	68.20	-11.28	50.16	6.76	Peak	100	65	8	5850.00	58.97	68.20	-9.23	51.49	7.48	Peak	100	65	9	11440.00	44.84	54.00	-9.16	28.67	16.17	Average	100	59	10	11440.00	57.23	74.00	-16.77	41.06	16.17	Peak	100	59	11	17160.00	62.25	68.20	-5.95	44.49	17.76	Peak	100	65
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																						
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																																																																						
		dBuV/m			dBuV			cm	deg																																																																																																																																						
1	3813.33	30.34	54.00	-23.66	27.04	3.30	Average	100	24																																																																																																																																						
2	3813.33	42.62	74.00	-31.38	39.32	3.30	Peak	100	24																																																																																																																																						
3	5005.00	43.62	54.00	-10.38	37.26	6.36	Average	100	65																																																																																																																																						
4	5005.00	56.69	74.00	-17.31	50.33	6.36	Peak	100	65																																																																																																																																						
5	5460.00	43.53	54.00	-10.47	36.80	6.73	Average	100	65																																																																																																																																						
6	5460.00	56.48	74.00	-17.52	49.75	6.73	Peak	100	65																																																																																																																																						
7	5470.00	56.92	68.20	-11.28	50.16	6.76	Peak	100	65																																																																																																																																						
8	5850.00	58.97	68.20	-9.23	51.49	7.48	Peak	100	65																																																																																																																																						
9	11440.00	44.84	54.00	-9.16	28.67	16.17	Average	100	59																																																																																																																																						
10	11440.00	57.23	74.00	-16.77	41.06	16.17	Peak	100	59																																																																																																																																						
11	17160.00	62.25	68.20	-5.95	44.49	17.76	Peak	100	65																																																																																																																																						
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)	5720						
Polarization	Vertical								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3813.33	39.88	54.00	-14.12	36.58	3.30	Average	286	197
2	3813.33	50.18	74.00	-23.82	46.88	3.30	Peak	286	197
3	5005.00	50.21	54.00	-3.79	43.85	6.36	Average	262	31
4	5005.00	62.25	74.00	-11.75	55.89	6.36	Peak	262	31
5	5460.00	44.34	54.00	-9.66	37.61	6.73	Average	262	12
6	5460.00	57.45	74.00	-16.55	50.72	6.73	Peak	262	12
7	5470.00	58.15	68.20	-10.05	51.39	6.76	Peak	262	12
8	5850.00	59.94	68.20	-8.26	52.46	7.48	Peak	262	12
9	11440.00	45.11	54.00	-8.89	28.94	16.17	Average	100	63
10	11440.00	58.42	74.00	-15.58	42.25	16.17	Peak	100	63
11	17160.00	62.08	68.20	-6.12	44.32	17.76	Peak	100	88

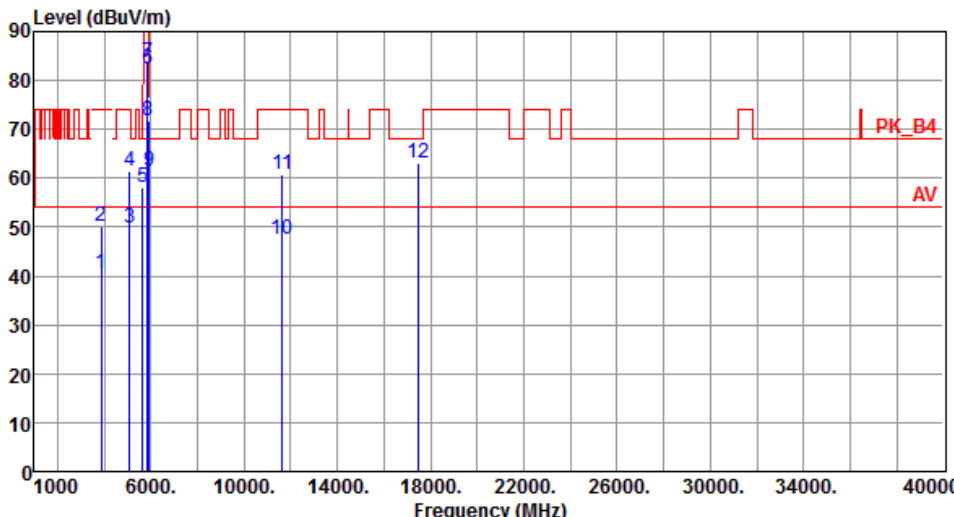
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5745																																																																																																																						
Polarization	Horizontal																																																																																																																								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																									
																																																																																																																									
	<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</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>3830.00</td><td>31.29</td><td>54.00</td><td>-22.71</td><td>27.91</td><td>3.38</td><td>Average</td><td>100 24</td></tr><tr><td>2</td><td>3830.00</td><td>43.64</td><td>74.00</td><td>-30.36</td><td>40.26</td><td>3.38</td><td>Peak</td><td>100 24</td></tr><tr><td>3</td><td>5027.00</td><td>44.10</td><td>54.00</td><td>-9.90</td><td>37.64</td><td>6.46</td><td>Average</td><td>100 65</td></tr><tr><td>4</td><td>5027.00</td><td>57.62</td><td>74.00</td><td>-16.38</td><td>51.16</td><td>6.46</td><td>Peak</td><td>100 65</td></tr><tr><td>5</td><td>5650.00</td><td>58.24</td><td>68.20</td><td>-9.96</td><td>51.38</td><td>6.86</td><td>Peak</td><td>100 65</td></tr><tr><td>6</td><td>5700.00</td><td>63.35</td><td>105.20</td><td>-41.85</td><td>56.38</td><td>6.97</td><td>Peak</td><td>100 65</td></tr><tr><td>7</td><td>5720.00</td><td>68.47</td><td>110.80</td><td>-42.33</td><td>61.38</td><td>7.09</td><td>Peak</td><td>100 65</td></tr><tr><td>8</td><td>5725.00</td><td>76.53</td><td>122.20</td><td>-45.67</td><td>69.40</td><td>7.13</td><td>Peak</td><td>100 65</td></tr><tr><td>9</td><td>5925.00</td><td>58.50</td><td>68.20</td><td>-9.70</td><td>50.96</td><td>7.54</td><td>Peak</td><td>100 65</td></tr><tr><td>10</td><td>11490.00</td><td>45.88</td><td>54.00</td><td>-8.12</td><td>29.69</td><td>16.19</td><td>Average</td><td>100 55</td></tr><tr><td>11</td><td>11490.00</td><td>58.52</td><td>74.00</td><td>-15.48</td><td>42.33</td><td>16.19</td><td>Peak</td><td>100 55</td></tr><tr><td>12</td><td>17235.00</td><td>62.44</td><td>68.20</td><td>-5.76</td><td>44.42</td><td>18.02</td><td>Peak</td><td>100 36</td></tr></table>	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	3830.00	31.29	54.00	-22.71	27.91	3.38	Average	100 24	2	3830.00	43.64	74.00	-30.36	40.26	3.38	Peak	100 24	3	5027.00	44.10	54.00	-9.90	37.64	6.46	Average	100 65	4	5027.00	57.62	74.00	-16.38	51.16	6.46	Peak	100 65	5	5650.00	58.24	68.20	-9.96	51.38	6.86	Peak	100 65	6	5700.00	63.35	105.20	-41.85	56.38	6.97	Peak	100 65	7	5720.00	68.47	110.80	-42.33	61.38	7.09	Peak	100 65	8	5725.00	76.53	122.20	-45.67	69.40	7.13	Peak	100 65	9	5925.00	58.50	68.20	-9.70	50.96	7.54	Peak	100 65	10	11490.00	45.88	54.00	-8.12	29.69	16.19	Average	100 55	11	11490.00	58.52	74.00	-15.48	42.33	16.19	Peak	100 55	12	17235.00	62.44	68.20	-5.76	44.42	18.02	Peak	100 36			
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																	
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3	5027.00	44.10	54.00	-9.90	37.64	6.46	Average	100 65																																																																																																																	
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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)	5785																																																																																																																								
Polarization	Horizontal																																																																																																																										
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																											
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></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>3856.66</td><td>31.30</td><td>54.00</td><td>-22.70</td><td>27.79</td><td>3.51</td><td>Average</td><td>100</td><td>34</td></tr><tr><td>2</td><td>3856.66</td><td>44.05</td><td>74.00</td><td>-29.95</td><td>40.54</td><td>3.51</td><td>Peak</td><td>100</td><td>34</td></tr><tr><td>3</td><td>5062.00</td><td>44.06</td><td>54.00</td><td>-9.94</td><td>37.45</td><td>6.61</td><td>Average</td><td>100</td><td>70</td></tr><tr><td>4</td><td>5062.00</td><td>57.77</td><td>74.00</td><td>-16.23</td><td>51.16</td><td>6.61</td><td>Peak</td><td>100</td><td>70</td></tr><tr><td>5</td><td>5650.00</td><td>58.26</td><td>68.20</td><td>-9.94</td><td>51.40</td><td>6.86</td><td>Peak</td><td>100</td><td>70</td></tr><tr><td>6</td><td>5925.00</td><td>58.53</td><td>68.20</td><td>-9.67</td><td>50.99</td><td>7.54</td><td>Peak</td><td>100</td><td>70</td></tr><tr><td>7</td><td>11570.00</td><td>45.17</td><td>54.00</td><td>-8.83</td><td>29.13</td><td>16.04</td><td>Average</td><td>100</td><td>82</td></tr><tr><td>8</td><td>11570.00</td><td>58.07</td><td>74.00</td><td>-15.93</td><td>42.03</td><td>16.04</td><td>Peak</td><td>100</td><td>82</td></tr><tr><td>9</td><td>17355.00</td><td>61.55</td><td>68.20</td><td>-6.65</td><td>42.95</td><td>18.60</td><td>Peak</td><td>100</td><td>68</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	3856.66	31.30	54.00	-22.70	27.79	3.51	Average	100	34	2	3856.66	44.05	74.00	-29.95	40.54	3.51	Peak	100	34	3	5062.00	44.06	54.00	-9.94	37.45	6.61	Average	100	70	4	5062.00	57.77	74.00	-16.23	51.16	6.61	Peak	100	70	5	5650.00	58.26	68.20	-9.94	51.40	6.86	Peak	100	70	6	5925.00	58.53	68.20	-9.67	50.99	7.54	Peak	100	70	7	11570.00	45.17	54.00	-8.83	29.13	16.04	Average	100	82	8	11570.00	58.07	74.00	-15.93	42.03	16.04	Peak	100	82	9	17355.00	61.55	68.20	-6.65	42.95	18.60	Peak	100	68
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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3	5062.00	44.06	54.00	-9.94	37.45	6.61	Average	100	70																																																																																																																		
4	5062.00	57.77	74.00	-16.23	51.16	6.61	Peak	100	70																																																																																																																		
5	5650.00	58.26	68.20	-9.94	51.40	6.86	Peak	100	70																																																																																																																		
6	5925.00	58.53	68.20	-9.67	50.99	7.54	Peak	100	70																																																																																																																		
7	11570.00	45.17	54.00	-8.83	29.13	16.04	Average	100	82																																																																																																																		
8	11570.00	58.07	74.00	-15.93	42.03	16.04	Peak	100	82																																																																																																																		
9	17355.00	61.55	68.20	-6.65	42.95	18.60	Peak	100	68																																																																																																																		
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).																																																																																																																											

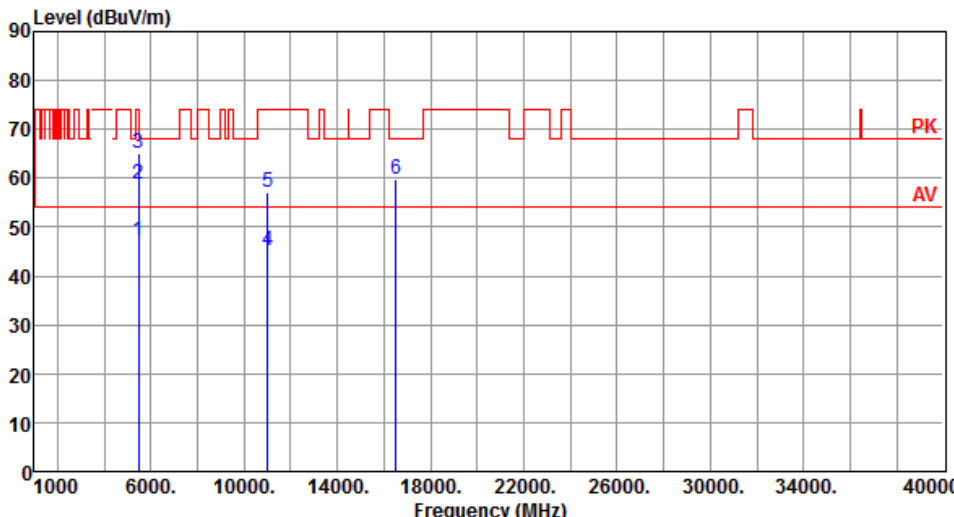
Modulation	11a	Test Freq. (MHz)	5785						
Polarization	Vertical								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64									
Level (dBuV/m) Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	3856.66	44.27	54.00	-9.73	40.76	3.51	Average	289	24
2	3856.66	59.45	74.00	-14.55	55.94	3.51	Peak	289	24
3	5062.00	50.02	54.00	-3.98	43.41	6.61	Average	230	19
4	5062.00	61.97	74.00	-12.03	55.36	6.61	Peak	230	19
5	5650.00	58.93	68.20	-9.27	52.07	6.86	Peak	230	279
6	5925.00	58.77	68.20	-9.43	51.23	7.54	Peak	230	279
7	11570.00	48.30	54.00	-5.70	32.26	16.04	Average	199	39
8	11570.00	61.43	74.00	-12.57	45.39	16.04	Peak	199	39
9	17355.00	62.32	68.20	-5.88	43.72	18.60	Peak	100	35

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)	5825																																																																																																																																																						
Polarization	Vertical																																																																																																																																																								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																																																									
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</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>40.44</td><td>54.00</td><td>-13.56</td><td>36.81</td><td>3.63</td><td>Average</td><td>286</td><td>31</td></tr><tr><td>2</td><td>3883.33</td><td>50.27</td><td>74.00</td><td>-23.73</td><td>46.64</td><td>3.63</td><td>Peak</td><td>286</td><td>31</td></tr><tr><td>3</td><td>5097.00</td><td>49.92</td><td>54.00</td><td>-4.08</td><td>43.16</td><td>6.76</td><td>Average</td><td>232</td><td>18</td></tr><tr><td>4</td><td>5097.00</td><td>61.48</td><td>74.00</td><td>-12.52</td><td>54.72</td><td>6.76</td><td>Peak</td><td>232</td><td>18</td></tr><tr><td>5</td><td>5650.00</td><td>58.15</td><td>68.20</td><td>-10.05</td><td>51.29</td><td>6.86</td><td>Peak</td><td>231</td><td>283</td></tr><tr><td>6</td><td>5850.00</td><td>82.37</td><td>122.20</td><td>-39.83</td><td>74.89</td><td>7.48</td><td>Peak</td><td>231</td><td>283</td></tr><tr><td>7</td><td>5855.00</td><td>83.68</td><td>110.80</td><td>-27.12</td><td>76.20</td><td>7.48</td><td>Peak</td><td>231</td><td>283</td></tr><tr><td>8</td><td>5875.00</td><td>71.57</td><td>105.20</td><td>-33.63</td><td>64.08</td><td>7.49</td><td>Peak</td><td>231</td><td>283</td></tr><tr><td>9</td><td>5925.00</td><td>61.60</td><td>68.20</td><td>-6.60</td><td>54.06</td><td>7.54</td><td>Peak</td><td>231</td><td>283</td></tr><tr><td>10</td><td>11650.00</td><td>47.64</td><td>54.00</td><td>-6.36</td><td>31.84</td><td>15.80</td><td>Average</td><td>198</td><td>21</td></tr><tr><td>11</td><td>11650.00</td><td>60.78</td><td>74.00</td><td>-13.22</td><td>44.98</td><td>15.80</td><td>Peak</td><td>198</td><td>21</td></tr><tr><td>12</td><td>17475.00</td><td>63.18</td><td>68.20</td><td>-5.02</td><td>44.07</td><td>19.11</td><td>Peak</td><td>100</td><td>95</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	3883.33	40.44	54.00	-13.56	36.81	3.63	Average	286	31	2	3883.33	50.27	74.00	-23.73	46.64	3.63	Peak	286	31	3	5097.00	49.92	54.00	-4.08	43.16	6.76	Average	232	18	4	5097.00	61.48	74.00	-12.52	54.72	6.76	Peak	232	18	5	5650.00	58.15	68.20	-10.05	51.29	6.86	Peak	231	283	6	5850.00	82.37	122.20	-39.83	74.89	7.48	Peak	231	283	7	5855.00	83.68	110.80	-27.12	76.20	7.48	Peak	231	283	8	5875.00	71.57	105.20	-33.63	64.08	7.49	Peak	231	283	9	5925.00	61.60	68.20	-6.60	54.06	7.54	Peak	231	283	10	11650.00	47.64	54.00	-6.36	31.84	15.80	Average	198	21	11	11650.00	60.78	74.00	-13.22	44.98	15.80	Peak	198	21	12	17475.00	63.18	68.20	-5.02	44.07	19.11	Peak	100	95
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																																
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																																																																																
		dBuV/m			dBuV			cm	deg																																																																																																																																																
1	3883.33	40.44	54.00	-13.56	36.81	3.63	Average	286	31																																																																																																																																																
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3	5097.00	49.92	54.00	-4.08	43.16	6.76	Average	232	18																																																																																																																																																
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7	5855.00	83.68	110.80	-27.12	76.20	7.48	Peak	231	283																																																																																																																																																
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10	11650.00	47.64	54.00	-6.36	31.84	15.80	Average	198	21																																																																																																																																																
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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).																																																																																																																																																									

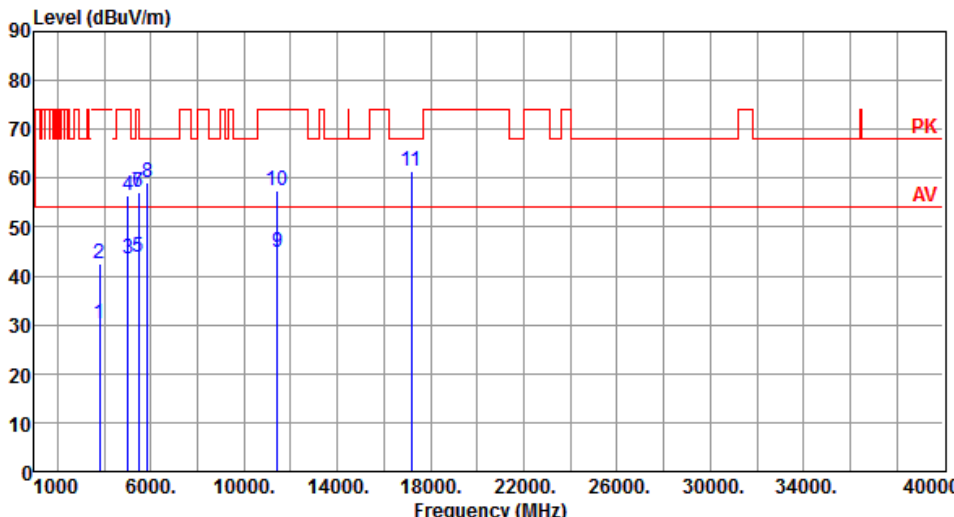
3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT20

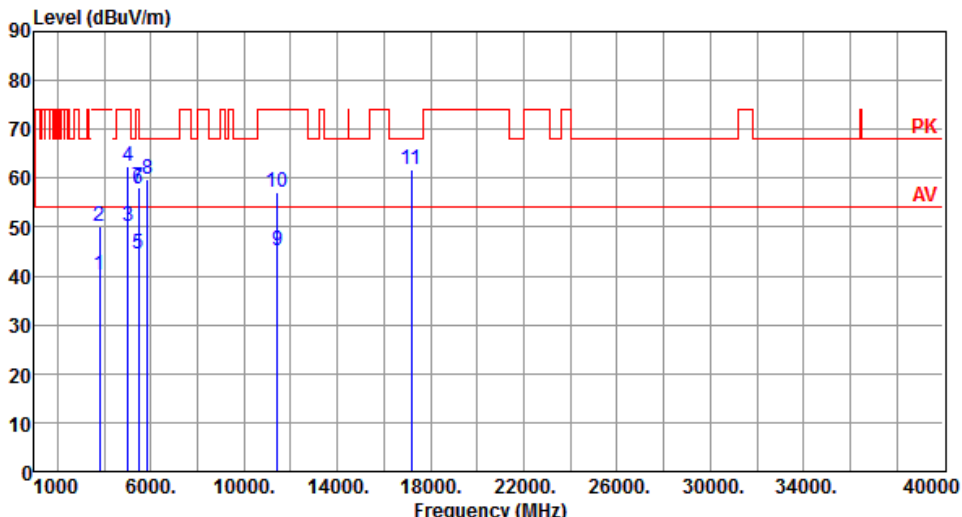
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5500																																																																																							
Polarization	Vertical																																																																																									
Test By :Roger Lu Temperature(℃):25 Humidity(%):61																																																																																										
Level (dBuV/m)  Frequency (MHz) <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</th><th></th><th>High</th><th>Table</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>cm</td><td>deg</td></tr><tr><td>1</td><td>5460.00</td><td>47.11</td><td>54.00</td><td>-6.89</td><td>40.38</td><td>6.73</td><td>Average</td><td>226</td><td>155</td></tr><tr><td>2</td><td>5460.00</td><td>58.77</td><td>74.00</td><td>-15.23</td><td>52.04</td><td>6.73</td><td>Peak</td><td>226</td><td>155</td></tr><tr><td>3</td><td>5470.00</td><td>65.16</td><td>68.20</td><td>-3.04</td><td>58.40</td><td>6.76</td><td>Peak</td><td>226</td><td>155</td></tr><tr><td>4</td><td>11000.00</td><td>45.07</td><td>54.00</td><td>-8.93</td><td>28.79</td><td>16.28</td><td>Average</td><td>100</td><td>40</td></tr><tr><td>5</td><td>11000.00</td><td>57.24</td><td>74.00</td><td>-16.76</td><td>40.96</td><td>16.28</td><td>Peak</td><td>100</td><td>40</td></tr><tr><td>6</td><td>16500.00</td><td>59.71</td><td>68.20</td><td>-8.49</td><td>42.69</td><td>17.02</td><td>Peak</td><td>100</td><td>50</td></tr></table>				Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBuV/m	dB	reading	dB		High	Table								cm	deg	1	5460.00	47.11	54.00	-6.89	40.38	6.73	Average	226	155	2	5460.00	58.77	74.00	-15.23	52.04	6.73	Peak	226	155	3	5470.00	65.16	68.20	-3.04	58.40	6.76	Peak	226	155	4	11000.00	45.07	54.00	-8.93	28.79	16.28	Average	100	40	5	11000.00	57.24	74.00	-16.76	40.96	16.28	Peak	100	40	6	16500.00	59.71	68.20	-8.49	42.69	17.02	Peak	100	50
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Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

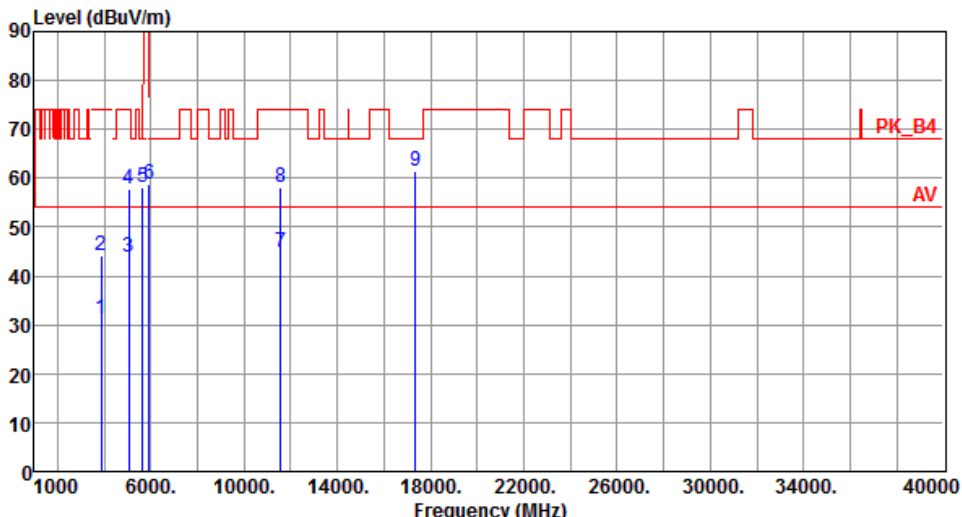
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) <			

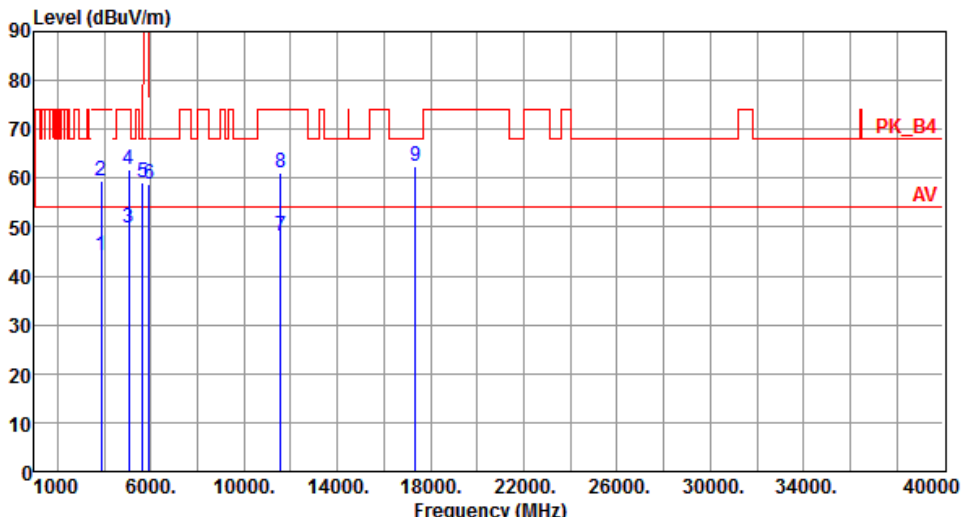
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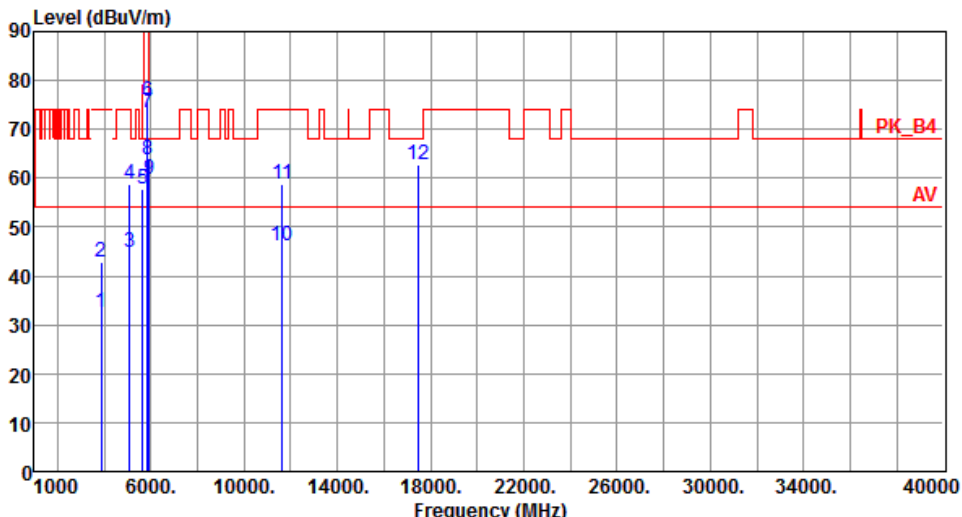
Modulation	VHT20	Test Freq. (MHz)	5720																																																																																																																								
Polarization	Vertical																																																																																																																										
Test By :Roger Lu Temperature(℃):25 Humidity(%):61																																																																																																																											
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																		
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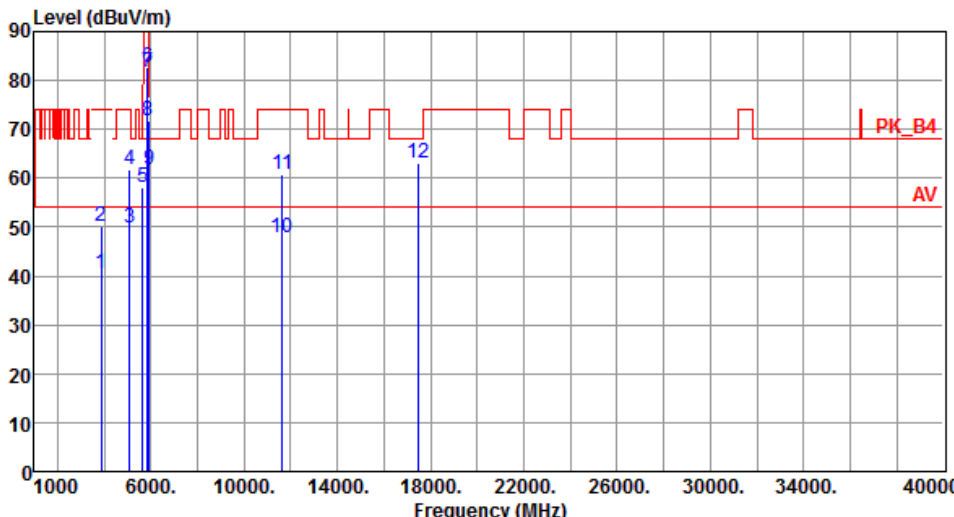
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBuV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5785																																																																																																																								
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3	5062.00	43.96	54.00	-10.04	37.35	6.61	Average	100	69																																																																																																																		
4	5062.00	57.73	74.00	-16.27	51.12	6.61	Peak	100	69																																																																																																																		
5	5650.00	58.14	68.20	-10.06	51.28	6.86	Peak	100	69																																																																																																																		
6	5925.00	58.65	68.20	-9.55	51.11	7.54	Peak	100	69																																																																																																																		
7	11570.00	44.97	54.00	-9.03	28.93	16.04	Average	100	60																																																																																																																		
8	11570.00	58.10	74.00	-15.90	42.06	16.04	Peak	100	60																																																																																																																		
9	17355.00	61.58	68.20	-6.62	42.98	18.60	Peak	100	40																																																																																																																		
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)	5785																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Roger Lu Temperature(℃):25 Humidity(%):61																																																																																																							
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</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>3856.66</td><td>44.31</td><td>54.00</td><td>-9.69</td><td>40.80</td><td>3.51</td><td>Average</td><td>289</td><td>30</td></tr><tr><td>2</td><td>3856.66</td><td>59.50</td><td>74.00</td><td>-14.50</td><td>55.99</td><td>3.51</td><td>Peak</td><td>289</td><td>30</td></tr><tr><td>3</td><td>5062.00</td><td>49.90</td><td>54.00</td><td>-4.10</td><td>43.29</td><td>6.61</td><td>Average</td><td>228</td><td>20</td></tr><tr><td>4</td><td>5062.00</td><td>61.90</td><td>74.00</td><td>-12.10</td><td>55.29</td><td>6.61</td><td>Peak</td><td>228</td><td>20</td></tr><tr><td>5</td><td>5650.00</td><td>58.99</td><td>68.20</td><td>-9.21</td><td>52.13</td><td>6.86</td><td>Peak</td><td>225</td><td>276</td></tr><tr><td>6</td><td>5925.00</td><td>58.82</td><td>68.20</td><td>-9.38</td><td>51.28</td><td>7.54</td><td>Peak</td><td>225</td><td>276</td></tr><tr><td>7</td><td>11570.00</td><td>48.11</td><td>54.00</td><td>-5.89</td><td>32.07</td><td>16.04</td><td>Average</td><td>192</td><td>42</td></tr><tr><td>8</td><td>11570.00</td><td>61.24</td><td>74.00</td><td>-12.76</td><td>45.20</td><td>16.04</td><td>Peak</td><td>192</td><td>42</td></tr><tr><td>9</td><td>17355.00</td><td>62.27</td><td>68.20</td><td>-5.93</td><td>43.67</td><td>18.60</td><td>Peak</td><td>100</td><td>40</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	3856.66	44.31	54.00	-9.69	40.80	3.51	Average	289	30	2	3856.66	59.50	74.00	-14.50	55.99	3.51	Peak	289	30	3	5062.00	49.90	54.00	-4.10	43.29	6.61	Average	228	20	4	5062.00	61.90	74.00	-12.10	55.29	6.61	Peak	228	20	5	5650.00	58.99	68.20	-9.21	52.13	6.86	Peak	225	276	6	5925.00	58.82	68.20	-9.38	51.28	7.54	Peak	225	276	7	11570.00	48.11	54.00	-5.89	32.07	16.04	Average	192	42	8	11570.00	61.24	74.00	-12.76	45.20	16.04	Peak	192	42	9	17355.00	62.27	68.20	-5.93	43.67	18.60	Peak	100	40
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
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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 :Roger Lu Temperature(℃):25 Humidity(%):61																																																																																																																																					
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</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>32.59</td><td>54.00</td><td>-21.41</td><td>28.96</td><td>3.63</td><td>Average</td><td>100</td><td>27</td></tr><tr><td>2</td><td>3883.33</td><td>42.71</td><td>74.00</td><td>-31.29</td><td>39.08</td><td>3.63</td><td>Peak</td><td>100</td><td>27</td></tr><tr><td>3</td><td>5097.00</td><td>44.90</td><td>54.00</td><td>-9.10</td><td>38.14</td><td>6.76</td><td>Average</td><td>100</td><td>65</td></tr><tr><td>4</td><td>5097.00</td><td>58.93</td><td>74.00</td><td>-15.07</td><td>52.17</td><td>6.76</td><td>Peak</td><td>100</td><td>65</td></tr><tr><td>5</td><td>5650.00</td><td>57.89</td><td>68.20</td><td>-10.31</td><td>51.03</td><td>6.86</td><td>Peak</td><td>100</td><td>65</td></tr><tr><td>6</td><td>5850.00</td><td>75.63</td><td>122.20</td><td>-46.57</td><td>68.15</td><td>7.48</td><td>Peak</td><td>100</td><td>65</td></tr><tr><td>7</td><td>5855.00</td><td>73.54</td><td>110.80</td><td>-37.26</td><td>66.06</td><td>7.48</td><td>Peak</td><td>100</td><td>65</td></tr><tr><td>8</td><td>5875.00</td><td>63.79</td><td>105.20</td><td>-41.41</td><td>56.30</td><td>7.49</td><td>Peak</td><td>100</td><td>65</td></tr><tr><td>9</td><td>5925.00</td><td>59.94</td><td>68.20</td><td>-8.26</td><td>52.40</td><td>7.54</td><td>Peak</td><td>100</td><td>65</td></tr><tr><td>10</td><td>11650.00</td><td>46.27</td><td>54.00</td><td>-7.73</td><td>30.47</td><td>15.80</td><td>Average</td><td>100</td><td>35</td></tr><tr><td>11</td><td>11650.00</td><td>58.82</td><td>74.00</td><td>-15.18</td><td>43.02</td><td>15.80</td><td>Peak</td><td>100</td><td>35</td></tr><tr><td>12</td><td>17475.00</td><td>62.76</td><td>68.20</td><td>-5.44</td><td>43.65</td><td>19.11</td><td>Peak</td><td>100</td><td>20</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	3883.33	32.59	54.00	-21.41	28.96	3.63	Average	100	27	2	3883.33	42.71	74.00	-31.29	39.08	3.63	Peak	100	27	3	5097.00	44.90	54.00	-9.10	38.14	6.76	Average	100	65	4	5097.00	58.93	74.00	-15.07	52.17	6.76	Peak	100	65	5	5650.00	57.89	68.20	-10.31	51.03	6.86	Peak	100	65	6	5850.00	75.63	122.20	-46.57	68.15	7.48	Peak	100	65	7	5855.00	73.54	110.80	-37.26	66.06	7.48	Peak	100	65	8	5875.00	63.79	105.20	-41.41	56.30	7.49	Peak	100	65	9	5925.00	59.94	68.20	-8.26	52.40	7.54	Peak	100	65	10	11650.00	46.27	54.00	-7.73	30.47	15.80	Average	100	35	11	11650.00	58.82	74.00	-15.18	43.02	15.80	Peak	100	35	12	17475.00	62.76	68.20	-5.44	43.65	19.11	Peak	100	20
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																												
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5	5650.00	57.89	68.20	-10.31	51.03	6.86	Peak	100	65																																																																																																																												
6	5850.00	75.63	122.20	-46.57	68.15	7.48	Peak	100	65																																																																																																																												
7	5855.00	73.54	110.80	-37.26	66.06	7.48	Peak	100	65																																																																																																																												
8	5875.00	63.79	105.20	-41.41	56.30	7.49	Peak	100	65																																																																																																																												
9	5925.00	59.94	68.20	-8.26	52.40	7.54	Peak	100	65																																																																																																																												
10	11650.00	46.27	54.00	-7.73	30.47	15.80	Average	100	35																																																																																																																												
11	11650.00	58.82	74.00	-15.18	43.02	15.80	Peak	100	35																																																																																																																												
12	17475.00	62.76	68.20	-5.44	43.65	19.11	Peak	100	20																																																																																																																												
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).																																																																																																																																					

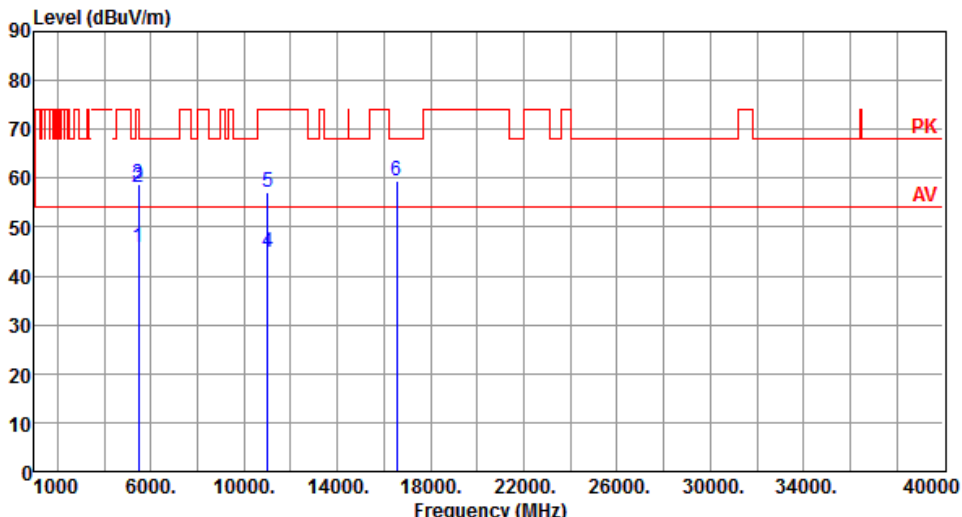
Modulation	VHT20	Test Freq. (MHz)	5825						
Polarization	Vertical								
Test By :Roger Lu Temperature(°C):25 Humidity(%):61									
Level (dBuV/m) 									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3883.33	40.59	54.00	-13.41	36.96	3.63	Average	283	32
2	3883.33	50.18	74.00	-23.82	46.55	3.63	Peak	283	32
3	5097.00	49.79	54.00	-4.21	43.03	6.76	Average	225	19
4	5097.00	61.68	74.00	-12.32	54.92	6.76	Peak	225	19
5	5650.00	58.19	68.20	-10.01	51.33	6.86	Peak	225	287
6	5850.00	82.53	122.20	-39.67	75.05	7.48	Peak	225	287
7	5855.00	81.78	110.80	-29.02	74.30	7.48	Peak	225	287
8	5875.00	71.64	105.20	-33.56	64.15	7.49	Peak	225	287
9	5925.00	61.75	68.20	-6.45	54.21	7.54	Peak	225	287
10	11650.00	47.66	54.00	-6.34	31.86	15.80	Average	195	23
11	11650.00	60.69	74.00	-13.31	44.89	15.80	Peak	195	23
12	17475.00	63.00	68.20	-5.20	43.89	19.11	Peak	100	90

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).

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT40

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBUV/m)			

Modulation	VHT40	Test Freq. (MHz)	5510																																																																																										
Polarization	Horizontal																																																																																												
Test By :Roger Lu Temperature(℃):25 Humidity(%):61																																																																																													
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></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5460.00</td><td>45.67</td><td>54.00</td><td>-8.33</td><td>38.94</td><td>6.73</td><td>Average</td><td>100</td><td>63</td></tr><tr><td>2</td><td>5460.00</td><td>58.11</td><td>74.00</td><td>-15.89</td><td>51.38</td><td>6.73</td><td>Peak</td><td>100</td><td>63</td></tr><tr><td>3</td><td>5470.00</td><td>58.69</td><td>68.20</td><td>-9.51</td><td>51.93</td><td>6.76</td><td>Peak</td><td>100</td><td>63</td></tr><tr><td>4</td><td>11020.00</td><td>44.74</td><td>54.00</td><td>-9.26</td><td>28.49</td><td>16.25</td><td>Average</td><td>100</td><td>40</td></tr><tr><td>5</td><td>11020.00</td><td>57.02</td><td>74.00</td><td>-16.98</td><td>40.77</td><td>16.25</td><td>Peak</td><td>100</td><td>40</td></tr><tr><td>6</td><td>16530.00</td><td>59.57</td><td>68.20</td><td>-8.63</td><td>42.36</td><td>17.21</td><td>Peak</td><td>100</td><td>50</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	5460.00	45.67	54.00	-8.33	38.94	6.73	Average	100	63	2	5460.00	58.11	74.00	-15.89	51.38	6.73	Peak	100	63	3	5470.00	58.69	68.20	-9.51	51.93	6.76	Peak	100	63	4	11020.00	44.74	54.00	-9.26	28.49	16.25	Average	100	40	5	11020.00	57.02	74.00	-16.98	40.77	16.25	Peak	100	40	6	16530.00	59.57	68.20	-8.63	42.36	17.21	Peak	100	50
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
	MHz	level			reading			High	Table																																																																																				
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																																																				
1	5460.00	45.67	54.00	-8.33	38.94	6.73	Average	100	63																																																																																				
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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)	5510
Polarization	Vertical		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBuV/m) </			

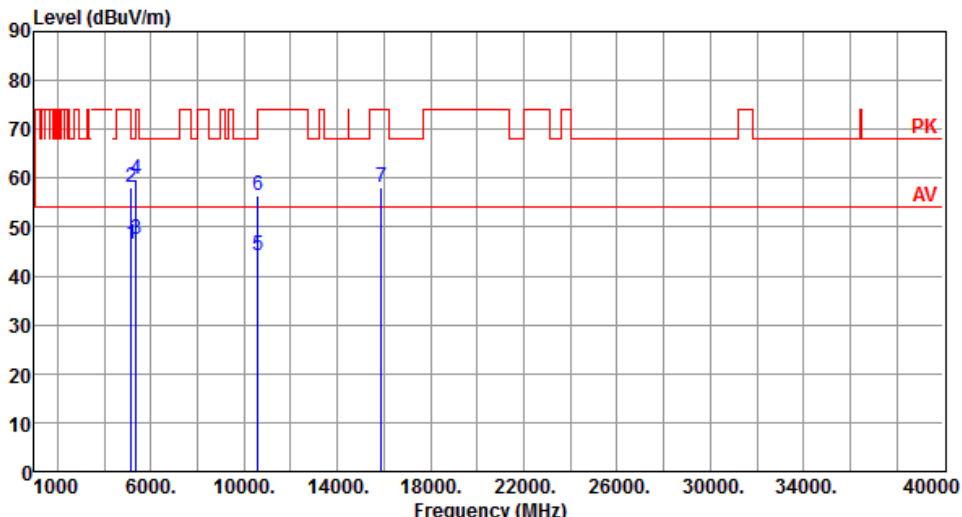
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		
Test By :Roger Lu Temperature(℃):25 Humidity(%):61			
Level (dBuV/m)			

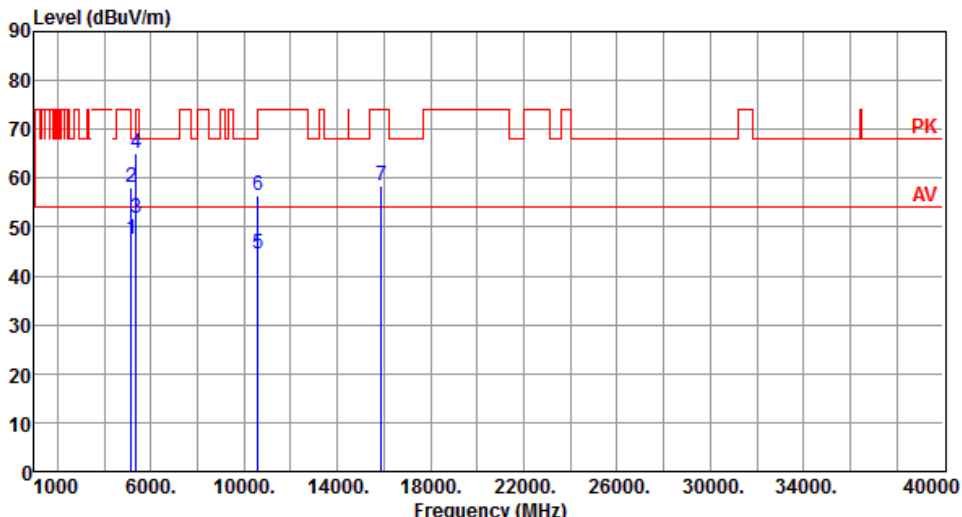
3.5.9 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT80

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :BRAD WU Temperature(℃):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	VHT80	Test Freq. (MHz)	5290						
Polarization	Horizontal								
Test By :Roger Lu Temperature(℃):25 Humidity(%):61									
Level (dBuV/m)  Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5150.00	46.56	54.00	-7.44	39.77	6.79	Average	100	74
2	5150.00	57.96	74.00	-16.04	51.17	6.79	Peak	100	74
3	5350.00	47.55	54.00	-6.45	41.22	6.33	Average	100	74
4	5350.00	59.65	74.00	-14.35	53.32	6.33	Peak	100	74
5	10580.00	44.21	54.00	-9.79	28.42	15.79	Average	100	90
6	10580.00	56.48	68.20	-11.72	40.69	15.79	Peak	100	90
7	15870.00	58.12	74.00	-15.88	42.13	15.99	Peak	100	60

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	VHT80	Test Freq. (MHz)	5290																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Roger Lu Temperature(℃):25 Humidity(%):61																																																																																																							
Level (dBuV/m)  <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>47.62</td><td>54.00</td><td>-6.38</td><td>40.83</td><td>6.79</td><td>Average</td><td>197</td><td>131</td></tr><tr><td>2</td><td>5150.00</td><td>58.17</td><td>74.00</td><td>-15.83</td><td>51.38</td><td>6.79</td><td>Peak</td><td>197</td><td>131</td></tr><tr><td>3</td><td>5350.00</td><td>51.71</td><td>54.00</td><td>-2.29</td><td>45.38</td><td>6.33</td><td>Average</td><td>197</td><td>131</td></tr><tr><td>4</td><td>5350.00</td><td>65.09</td><td>74.00</td><td>-8.91</td><td>58.76</td><td>6.33</td><td>Peak</td><td>197</td><td>131</td></tr><tr><td>5</td><td>10580.00</td><td>44.45</td><td>54.00</td><td>-9.55</td><td>28.66</td><td>15.79</td><td>Average</td><td>100</td><td>60</td></tr><tr><td>6</td><td>10580.00</td><td>56.54</td><td>68.20</td><td>-11.66</td><td>40.75</td><td>15.79</td><td>Peak</td><td>100</td><td>60</td></tr><tr><td>7</td><td>15870.00</td><td>58.30</td><td>74.00</td><td>-15.70</td><td>42.31</td><td>15.99</td><td>Peak</td><td>100</td><td>40</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.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	5150.00	47.62	54.00	-6.38	40.83	6.79	Average	197	131	2	5150.00	58.17	74.00	-15.83	51.38	6.79	Peak	197	131	3	5350.00	51.71	54.00	-2.29	45.38	6.33	Average	197	131	4	5350.00	65.09	74.00	-8.91	58.76	6.33	Peak	197	131	5	10580.00	44.45	54.00	-9.55	28.66	15.79	Average	100	60	6	10580.00	56.54	68.20	-11.66	40.75	15.79	Peak	100	60	7	15870.00	58.30	74.00	-15.70	42.31	15.99	Peak	100	40
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Configuration 2: PCB Dipole Antenna

With model: **ST60-2230C-P**

3.5.10 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) </			

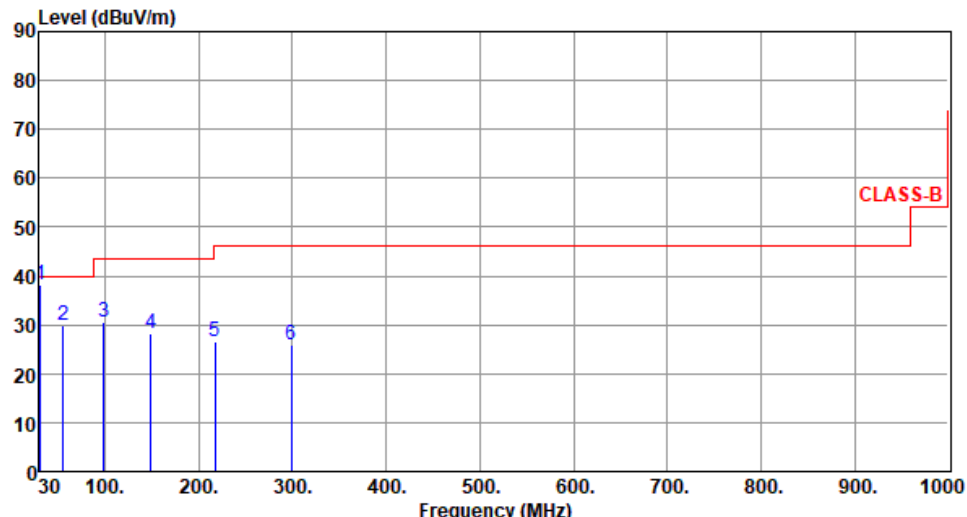
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

With model: ST60-2230C-PU

3.5.11 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5580																																																																						
Polarization	Vertical																																																																								
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																																									
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Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

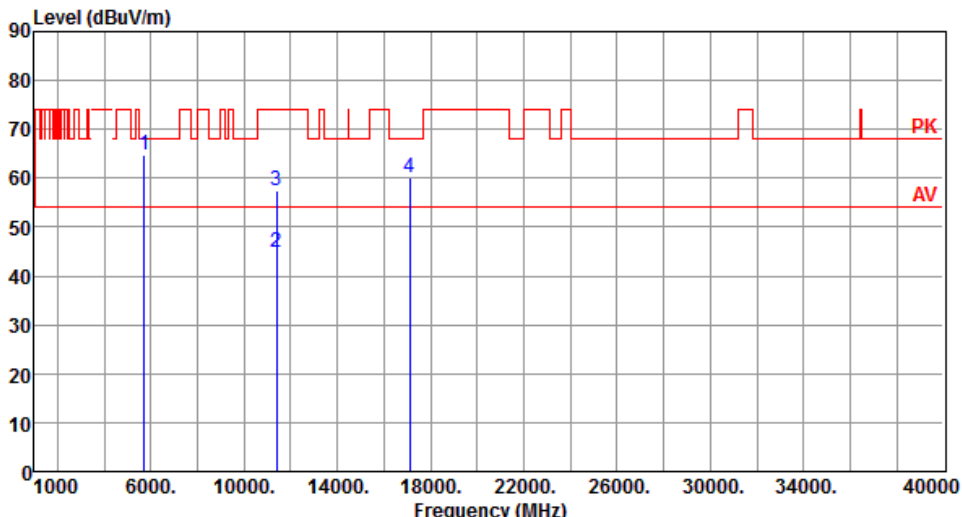
Modulation	VHT20	Test Freq. (MHz)	5745																																																																						
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
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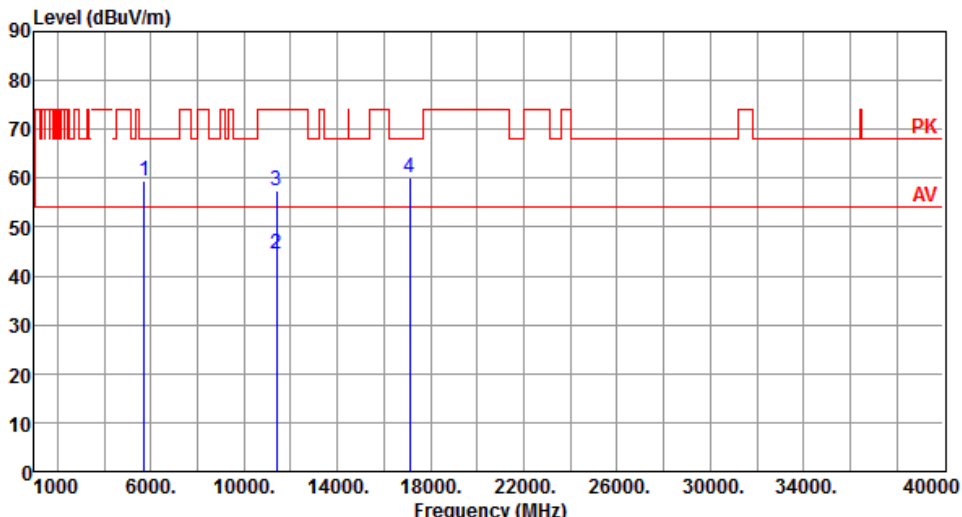
With model: ST60-2230C-P

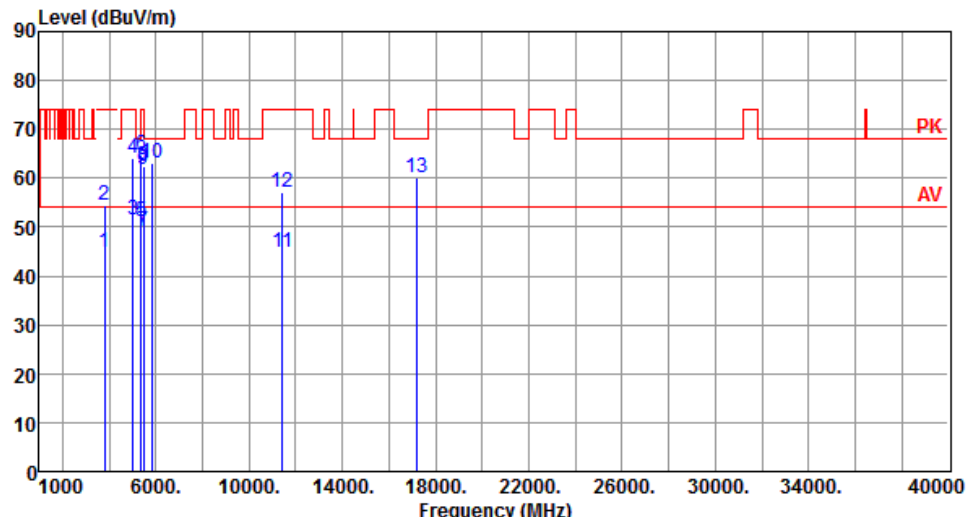
3.5.12 Transmitter Radiated Unwanted Emissions (Above 1GHz)_11a

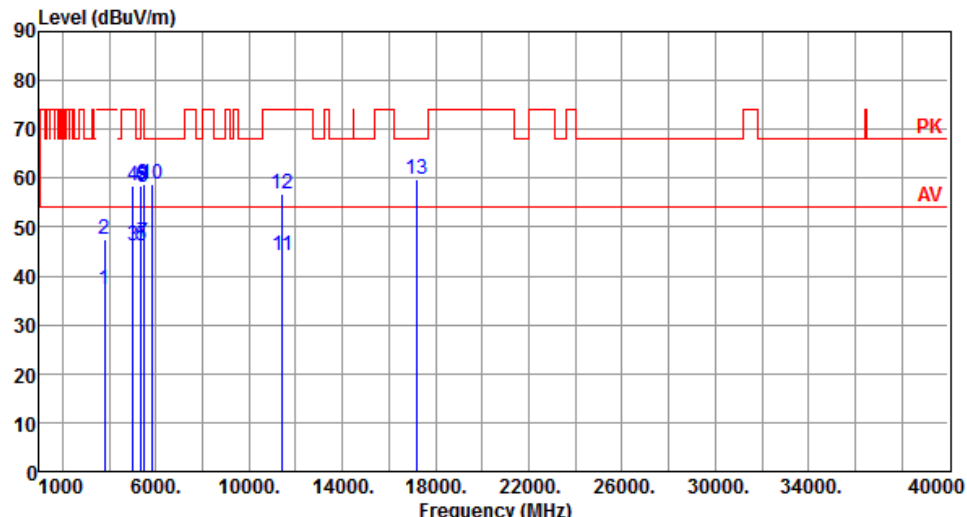
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

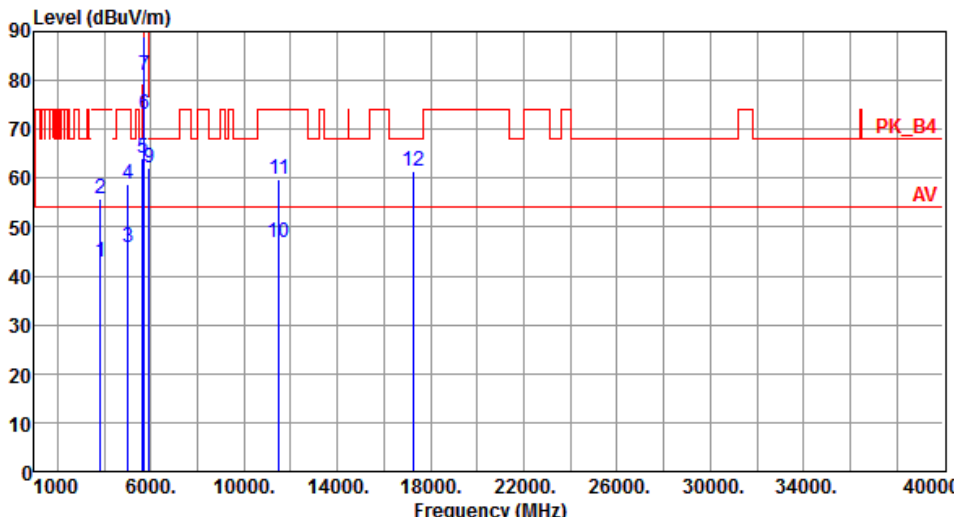
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) </			

Modulation	11a	Test Freq. (MHz)	5700																																																		
Polarization	Horizontal																																																				
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																					
Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5725.00</td><td>64.82</td><td>68.20</td><td>-3.38</td><td>57.69</td><td>7.13</td><td>Peak</td><td>206</td><td>353</td></tr><tr><td>2</td><td>11400.00</td><td>44.75</td><td>54.00</td><td>-9.25</td><td>28.59</td><td>16.16</td><td>Average</td><td>100</td><td>20</td></tr><tr><td>3</td><td>11400.00</td><td>57.61</td><td>74.00</td><td>-16.39</td><td>41.45</td><td>16.16</td><td>Peak</td><td>100</td><td>20</td></tr><tr><td>4</td><td>17100.00</td><td>60.26</td><td>68.20</td><td>-7.94</td><td>42.63</td><td>17.63</td><td>Peak</td><td>100</td><td>70</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5725.00	64.82	68.20	-3.38	57.69	7.13	Peak	206	353	2	11400.00	44.75	54.00	-9.25	28.59	16.16	Average	100	20	3	11400.00	57.61	74.00	-16.39	41.45	16.16	Peak	100	20	4	17100.00	60.26	68.20	-7.94	42.63	17.63	Peak	100	70
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																												
1	5725.00	64.82	68.20	-3.38	57.69	7.13	Peak	206	353																																												
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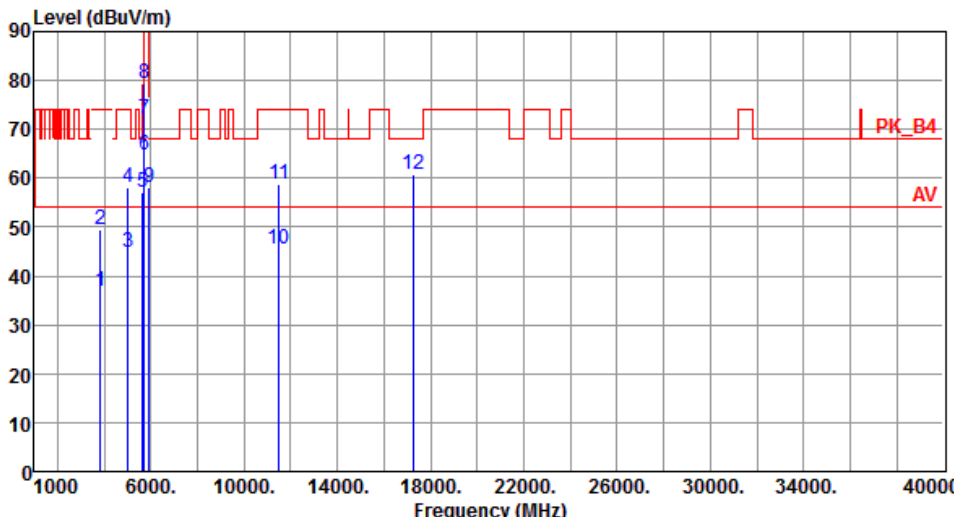
Modulation	11a	Test Freq. (MHz)	5700																																																		
Polarization	Vertical																																																				
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																					
Level (dBUV/m)  <table><thead><tr><th></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</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>59.57</td><td>68.20</td><td>-8.63</td><td>52.44</td><td>7.13</td><td>Peak</td><td>303</td><td>169</td></tr><tr><td>2</td><td>11400.00</td><td>44.62</td><td>54.00</td><td>-9.38</td><td>28.46</td><td>16.16</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>3</td><td>11400.00</td><td>57.44</td><td>74.00</td><td>-16.56</td><td>41.28</td><td>16.16</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>4</td><td>17100.00</td><td>60.08</td><td>68.20</td><td>-8.12</td><td>42.45</td><td>17.63</td><td>Peak</td><td>100</td><td>50</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	Remark	ANT High cm	Turn Table deg	1	5725.00	59.57	68.20	-8.63	52.44	7.13	Peak	303	169	2	11400.00	44.62	54.00	-9.38	28.46	16.16	Average	100	30	3	11400.00	57.44	74.00	-16.56	41.28	16.16	Peak	100	30	4	17100.00	60.08	68.20	-8.12	42.45	17.63	Peak	100	50
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																												
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Modulation	11a	Test Freq. (MHz)	5720																																																																																																																																																
Polarization	Horizontal																																																																																																																																																		
Test By :BRAD WU Temperature(°C):25 Humidity(%):62																																																																																																																																																			
Level (dBUV/m)  Frequency (MHz) <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</th><th></th><th>High</th><th>Table</th></tr><tr><td></td><td></td><td></td><td></td><td>dBUV</td><td></td><td></td><td>cm</td><td>deg</td></tr><tr><td>1</td><td>3813.33</td><td>44.81</td><td>54.00</td><td>-9.19</td><td>41.51</td><td>3.30</td><td>Average</td><td>274 248</td></tr><tr><td>2</td><td>3813.33</td><td>54.48</td><td>74.00</td><td>-19.52</td><td>51.18</td><td>3.30</td><td>Peak</td><td>274 248</td></tr><tr><td>3</td><td>5005.00</td><td>51.39</td><td>54.00</td><td>-2.61</td><td>45.03</td><td>6.36</td><td>Average</td><td>293 274</td></tr><tr><td>4</td><td>5005.00</td><td>64.10</td><td>74.00</td><td>-9.90</td><td>57.74</td><td>6.36</td><td>Peak</td><td>293 274</td></tr><tr><td>5</td><td>5362.00</td><td>51.03</td><td>54.00</td><td>-2.97</td><td>44.64</td><td>6.39</td><td>Average</td><td>293 284</td></tr><tr><td>6</td><td>5362.00</td><td>64.60</td><td>74.00</td><td>-9.40</td><td>58.21</td><td>6.39</td><td>Peak</td><td>293 284</td></tr><tr><td>7</td><td>5460.00</td><td>49.03</td><td>54.00</td><td>-4.97</td><td>42.30</td><td>6.73</td><td>Average</td><td>293 247</td></tr><tr><td>8</td><td>5460.00</td><td>62.48</td><td>74.00</td><td>-11.52</td><td>55.75</td><td>6.73</td><td>Peak</td><td>293 247</td></tr><tr><td>9</td><td>5470.00</td><td>61.92</td><td>68.20</td><td>-6.28</td><td>55.16</td><td>6.76</td><td>Peak</td><td>293 247</td></tr><tr><td>10</td><td>5850.00</td><td>63.24</td><td>68.20</td><td>-4.96</td><td>55.76</td><td>7.48</td><td>Peak</td><td>293 247</td></tr><tr><td>11</td><td>11440.00</td><td>44.81</td><td>54.00</td><td>-9.19</td><td>28.64</td><td>16.17</td><td>Average</td><td>100 49</td></tr><tr><td>12</td><td>11440.00</td><td>57.16</td><td>74.00</td><td>-16.84</td><td>40.99</td><td>16.17</td><td>Peak</td><td>100 49</td></tr><tr><td>13</td><td>17160.00</td><td>60.25</td><td>68.20</td><td>-7.95</td><td>42.49</td><td>17.76</td><td>Peak</td><td>100 60</td></tr></table>				Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBUV/m	dB	reading	dB		High	Table					dBUV			cm	deg	1	3813.33	44.81	54.00	-9.19	41.51	3.30	Average	274 248	2	3813.33	54.48	74.00	-19.52	51.18	3.30	Peak	274 248	3	5005.00	51.39	54.00	-2.61	45.03	6.36	Average	293 274	4	5005.00	64.10	74.00	-9.90	57.74	6.36	Peak	293 274	5	5362.00	51.03	54.00	-2.97	44.64	6.39	Average	293 284	6	5362.00	64.60	74.00	-9.40	58.21	6.39	Peak	293 284	7	5460.00	49.03	54.00	-4.97	42.30	6.73	Average	293 247	8	5460.00	62.48	74.00	-11.52	55.75	6.73	Peak	293 247	9	5470.00	61.92	68.20	-6.28	55.16	6.76	Peak	293 247	10	5850.00	63.24	68.20	-4.96	55.76	7.48	Peak	293 247	11	11440.00	44.81	54.00	-9.19	28.64	16.17	Average	100 49	12	11440.00	57.16	74.00	-16.84	40.99	16.17	Peak	100 49	13	17160.00	60.25	68.20	-7.95	42.49	17.76	Peak	100 60
Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																											
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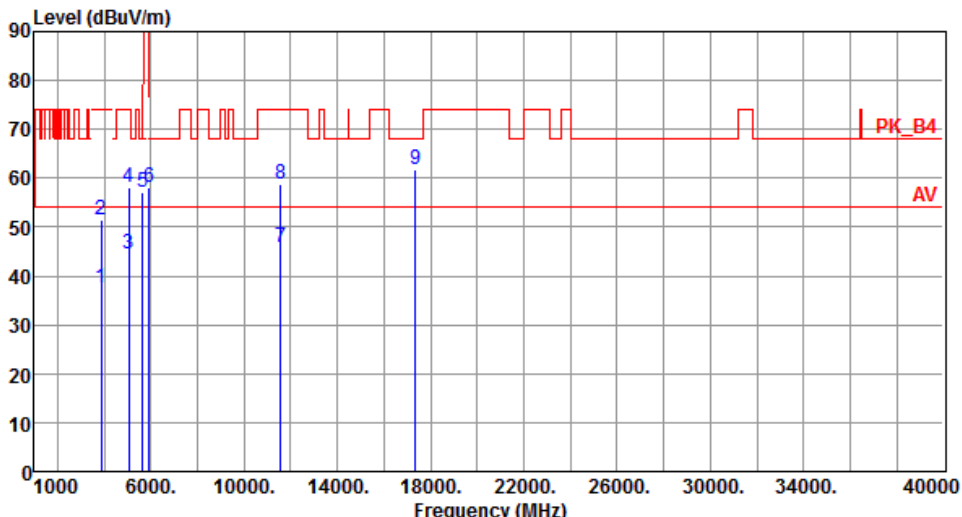
Modulation	11a	Test Freq. (MHz)	5720																																																																																																																														
Polarization	Vertical																																																																																																																																
Test By :BRAD WU Temperature(°C):25 Humidity(%):62																																																																																																																																	
																																																																																																																																	
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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)	5745						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):24 Humidity(%):63									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3830.00	42.89	54.00	-11.11	39.51	3.38	Average	274	285
2	3830.00	55.87	74.00	-18.13	52.49	3.38	Peak	274	285
3	5027.00	45.91	54.00	-8.09	39.45	6.46	Average	289	257
4	5027.00	58.72	74.00	-15.28	52.26	6.46	Peak	289	257
5	5650.00	64.11	68.20	-4.09	57.25	6.86	Peak	289	247
6	5700.00	72.95	105.20	-32.25	65.98	6.97	Peak	289	247
7	5720.00	80.90	110.80	-29.90	73.81	7.09	Peak	289	247
8	5725.00	88.94	122.20	-33.26	81.81	7.13	Peak	289	247
9	5925.00	61.94	68.20	-6.26	54.40	7.54	Peak	289	247
10	11490.00	46.82	54.00	-7.18	30.63	16.19	Average	122	19
11	11490.00	59.82	74.00	-14.18	43.63	16.19	Peak	122	19
12	17235.00	61.59	68.20	-6.61	43.57	18.02	Peak	105	24

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)	5745																																																																																																																																			
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Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5785																																																																																																																								
Polarization	Vertical																																																																																																																										
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																																																																																											
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</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>3856.66</td><td>37.61</td><td>54.00</td><td>-16.39</td><td>34.10</td><td>3.51</td><td>Average</td><td>148</td><td>4</td></tr><tr><td>2</td><td>3856.66</td><td>51.60</td><td>74.00</td><td>-22.40</td><td>48.09</td><td>3.51</td><td>Peak</td><td>148</td><td>4</td></tr><tr><td>3</td><td>5062.00</td><td>44.54</td><td>54.00</td><td>-9.46</td><td>37.93</td><td>6.61</td><td>Average</td><td>321</td><td>172</td></tr><tr><td>4</td><td>5062.00</td><td>58.14</td><td>74.00</td><td>-15.86</td><td>51.53</td><td>6.61</td><td>Peak</td><td>321</td><td>172</td></tr><tr><td>5</td><td>5650.00</td><td>57.12</td><td>68.20</td><td>-11.08</td><td>50.26</td><td>6.86</td><td>Peak</td><td>321</td><td>172</td></tr><tr><td>6</td><td>5925.00</td><td>58.02</td><td>68.20</td><td>-10.18</td><td>50.48</td><td>7.54</td><td>Peak</td><td>321</td><td>172</td></tr><tr><td>7</td><td>11570.00</td><td>45.80</td><td>54.00</td><td>-8.20</td><td>29.76</td><td>16.04</td><td>Average</td><td>100</td><td>42</td></tr><tr><td>8</td><td>11570.00</td><td>58.72</td><td>74.00</td><td>-15.28</td><td>42.68</td><td>16.04</td><td>Peak</td><td>100</td><td>42</td></tr><tr><td>9</td><td>17355.00</td><td>61.72</td><td>68.20</td><td>-6.48</td><td>43.12</td><td>18.60</td><td>Peak</td><td>100</td><td>50</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table									cm	deg	1	3856.66	37.61	54.00	-16.39	34.10	3.51	Average	148	4	2	3856.66	51.60	74.00	-22.40	48.09	3.51	Peak	148	4	3	5062.00	44.54	54.00	-9.46	37.93	6.61	Average	321	172	4	5062.00	58.14	74.00	-15.86	51.53	6.61	Peak	321	172	5	5650.00	57.12	68.20	-11.08	50.26	6.86	Peak	321	172	6	5925.00	58.02	68.20	-10.18	50.48	7.54	Peak	321	172	7	11570.00	45.80	54.00	-8.20	29.76	16.04	Average	100	42	8	11570.00	58.72	74.00	-15.28	42.68	16.04	Peak	100	42	9	17355.00	61.72	68.20	-6.48	43.12	18.60	Peak	100	50
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																																																		
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1	3856.66	37.61	54.00	-16.39	34.10	3.51	Average	148	4																																																																																																																		
2	3856.66	51.60	74.00	-22.40	48.09	3.51	Peak	148	4																																																																																																																		
3	5062.00	44.54	54.00	-9.46	37.93	6.61	Average	321	172																																																																																																																		
4	5062.00	58.14	74.00	-15.86	51.53	6.61	Peak	321	172																																																																																																																		
5	5650.00	57.12	68.20	-11.08	50.26	6.86	Peak	321	172																																																																																																																		
6	5925.00	58.02	68.20	-10.18	50.48	7.54	Peak	321	172																																																																																																																		
7	11570.00	45.80	54.00	-8.20	29.76	16.04	Average	100	42																																																																																																																		
8	11570.00	58.72	74.00	-15.28	42.68	16.04	Peak	100	42																																																																																																																		
9	17355.00	61.72	68.20	-6.48	43.12	18.60	Peak	100	50																																																																																																																		
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).																																																																																																																											

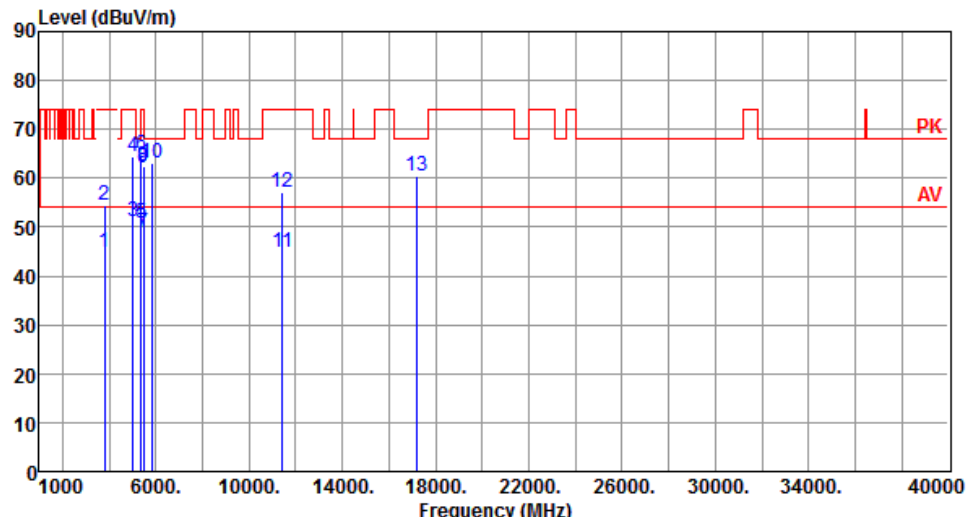
3.5.13 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT20

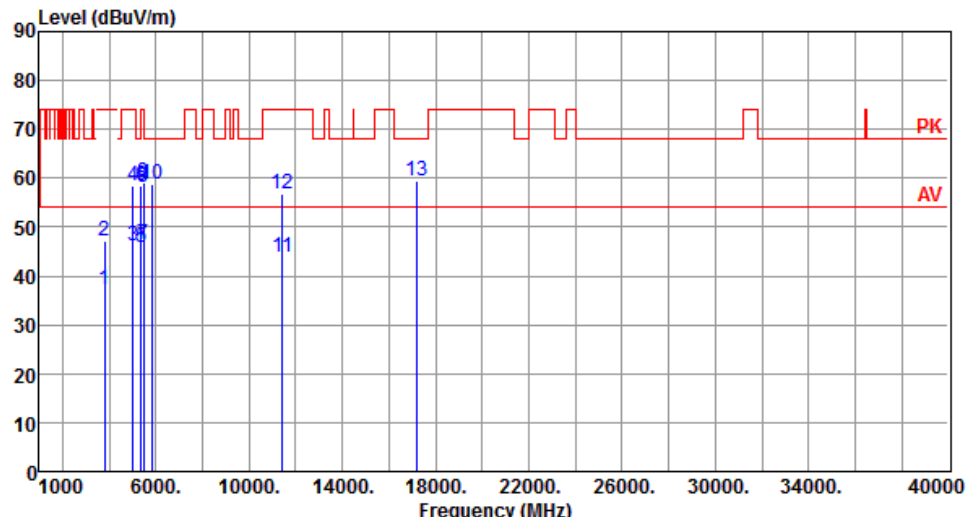
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBUV/m)			

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5720																																																																																																																																																
Polarization	Horizontal																																																																																																																																																		
Test By :BRAD WU Temperature(°C):25 Humidity(%):62																																																																																																																																																			
Level (dBuV/m)  Frequency (MHz) <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</th><th></th><th>High</th><th>Table</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>cm</td><td>deg</td></tr><tr><td>1</td><td>3813.33</td><td>44.71</td><td>54.00</td><td>-9.29</td><td>41.41</td><td>3.30</td><td>Average</td><td>275 242</td></tr><tr><td>2</td><td>3813.33</td><td>54.41</td><td>74.00</td><td>-19.59</td><td>51.11</td><td>3.30</td><td>Peak</td><td>275 242</td></tr><tr><td>3</td><td>5005.00</td><td>51.26</td><td>54.00</td><td>-2.74</td><td>44.90</td><td>6.36</td><td>Average</td><td>295 276</td></tr><tr><td>4</td><td>5005.00</td><td>64.30</td><td>74.00</td><td>-9.70</td><td>57.94</td><td>6.36</td><td>Peak</td><td>295 276</td></tr><tr><td>5</td><td>5362.00</td><td>50.83</td><td>54.00</td><td>-3.17</td><td>44.44</td><td>6.39</td><td>Average</td><td>295 288</td></tr><tr><td>6</td><td>5362.00</td><td>64.68</td><td>74.00</td><td>-9.32</td><td>58.29</td><td>6.39</td><td>Peak</td><td>295 288</td></tr><tr><td>7</td><td>5460.00</td><td>48.98</td><td>54.00</td><td>-5.02</td><td>42.25</td><td>6.73</td><td>Average</td><td>295 245</td></tr><tr><td>8</td><td>5460.00</td><td>62.37</td><td>74.00</td><td>-11.63</td><td>55.64</td><td>6.73</td><td>Peak</td><td>295 245</td></tr><tr><td>9</td><td>5470.00</td><td>61.99</td><td>68.20</td><td>-6.21</td><td>55.23</td><td>6.76</td><td>Peak</td><td>295 245</td></tr><tr><td>10</td><td>5850.00</td><td>63.17</td><td>68.20</td><td>-5.03</td><td>55.69</td><td>7.48</td><td>Peak</td><td>295 245</td></tr><tr><td>11</td><td>11440.00</td><td>44.78</td><td>54.00</td><td>-9.22</td><td>28.61</td><td>16.17</td><td>Average</td><td>100 48</td></tr><tr><td>12</td><td>11440.00</td><td>57.06</td><td>74.00</td><td>-16.94</td><td>40.89</td><td>16.17</td><td>Peak</td><td>100 48</td></tr><tr><td>13</td><td>17160.00</td><td>60.42</td><td>68.20</td><td>-7.78</td><td>42.66</td><td>17.76</td><td>Peak</td><td>100 60</td></tr></table>				Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBuV/m	dB	reading	dB		High	Table								cm	deg	1	3813.33	44.71	54.00	-9.29	41.41	3.30	Average	275 242	2	3813.33	54.41	74.00	-19.59	51.11	3.30	Peak	275 242	3	5005.00	51.26	54.00	-2.74	44.90	6.36	Average	295 276	4	5005.00	64.30	74.00	-9.70	57.94	6.36	Peak	295 276	5	5362.00	50.83	54.00	-3.17	44.44	6.39	Average	295 288	6	5362.00	64.68	74.00	-9.32	58.29	6.39	Peak	295 288	7	5460.00	48.98	54.00	-5.02	42.25	6.73	Average	295 245	8	5460.00	62.37	74.00	-11.63	55.64	6.73	Peak	295 245	9	5470.00	61.99	68.20	-6.21	55.23	6.76	Peak	295 245	10	5850.00	63.17	68.20	-5.03	55.69	7.48	Peak	295 245	11	11440.00	44.78	54.00	-9.22	28.61	16.17	Average	100 48	12	11440.00	57.06	74.00	-16.94	40.89	16.17	Peak	100 48	13	17160.00	60.42	68.20	-7.78	42.66	17.76	Peak	100 60
Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																											
MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																																																																											
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1	3813.33	44.71	54.00	-9.29	41.41	3.30	Average	275 242																																																																																																																																											
2	3813.33	54.41	74.00	-19.59	51.11	3.30	Peak	275 242																																																																																																																																											
3	5005.00	51.26	54.00	-2.74	44.90	6.36	Average	295 276																																																																																																																																											
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5	5362.00	50.83	54.00	-3.17	44.44	6.39	Average	295 288																																																																																																																																											
6	5362.00	64.68	74.00	-9.32	58.29	6.39	Peak	295 288																																																																																																																																											
7	5460.00	48.98	54.00	-5.02	42.25	6.73	Average	295 245																																																																																																																																											
8	5460.00	62.37	74.00	-11.63	55.64	6.73	Peak	295 245																																																																																																																																											
9	5470.00	61.99	68.20	-6.21	55.23	6.76	Peak	295 245																																																																																																																																											
10	5850.00	63.17	68.20	-5.03	55.69	7.48	Peak	295 245																																																																																																																																											
11	11440.00	44.78	54.00	-9.22	28.61	16.17	Average	100 48																																																																																																																																											
12	11440.00	57.06	74.00	-16.94	40.89	16.17	Peak	100 48																																																																																																																																											
13	17160.00	60.42	68.20	-7.78	42.66	17.76	Peak	100 60																																																																																																																																											
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).																																																																																																																																																			

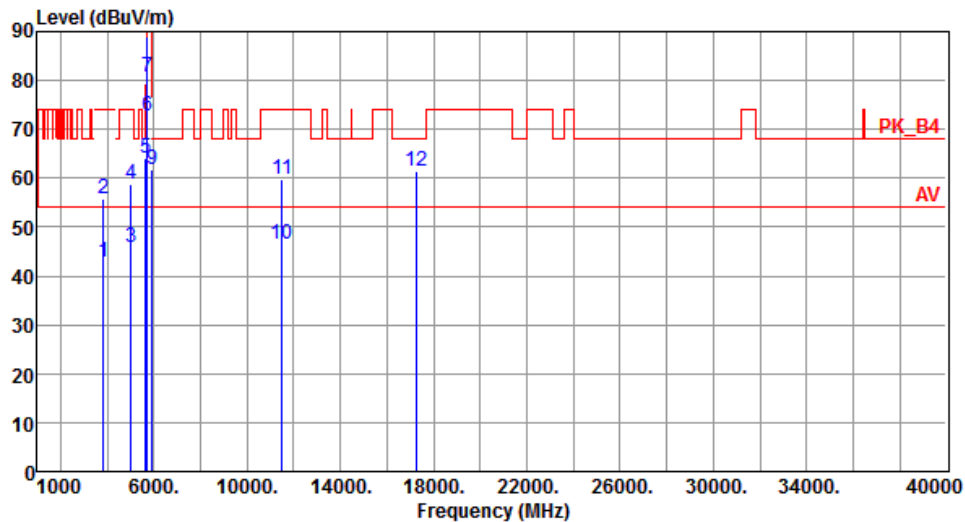
Modulation	VHT20	Test Freq. (MHz)	5720																																																																																																																																												
Polarization	Vertical																																																																																																																																														
Test By :BRAD WU Temperature(°C):25 Humidity(%):62																																																																																																																																															
																																																																																																																																															
	<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</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>3813.33</td><td>37.31</td><td>54.00</td><td>-16.69</td><td>34.01</td><td>3.30</td><td>Average</td><td>148</td><td>5</td></tr><tr><td>2</td><td>3813.33</td><td>47.22</td><td>74.00</td><td>-26.78</td><td>43.92</td><td>3.30</td><td>Peak</td><td>148</td><td>5</td></tr><tr><td>3</td><td>5005.00</td><td>46.18</td><td>54.00</td><td>-7.82</td><td>39.82</td><td>6.36</td><td>Average</td><td>303</td><td>165</td></tr><tr><td>4</td><td>5005.00</td><td>58.59</td><td>74.00</td><td>-15.41</td><td>52.23</td><td>6.36</td><td>Peak</td><td>303</td><td>165</td></tr><tr><td>5</td><td>5362.00</td><td>45.91</td><td>54.00</td><td>-8.09</td><td>39.52</td><td>6.39</td><td>Average</td><td>303</td><td>165</td></tr><tr><td>6</td><td>5362.00</td><td>58.33</td><td>74.00</td><td>-15.67</td><td>51.94</td><td>6.39</td><td>Peak</td><td>303</td><td>165</td></tr><tr><td>7</td><td>5460.00</td><td>46.60</td><td>54.00</td><td>-7.40</td><td>39.87</td><td>6.73</td><td>Average</td><td>303</td><td>165</td></tr><tr><td>8</td><td>5460.00</td><td>58.20</td><td>74.00</td><td>-15.80</td><td>51.47</td><td>6.73</td><td>Peak</td><td>303</td><td>165</td></tr><tr><td>9</td><td>5470.00</td><td>59.00</td><td>68.20</td><td>-9.20</td><td>52.24</td><td>6.76</td><td>Peak</td><td>303</td><td>165</td></tr><tr><td>10</td><td>5850.00</td><td>58.75</td><td>68.20</td><td>-9.45</td><td>51.27</td><td>7.48</td><td>Peak</td><td>303</td><td>165</td></tr><tr><td>11</td><td>11440.00</td><td>43.85</td><td>54.00</td><td>-10.15</td><td>27.68</td><td>16.17</td><td>Average</td><td>100</td><td>35</td></tr><tr><td>12</td><td>11440.00</td><td>56.78</td><td>74.00</td><td>-17.22</td><td>40.61</td><td>16.17</td><td>Peak</td><td>100</td><td>35</td></tr><tr><td>13</td><td>17160.00</td><td>59.56</td><td>68.20</td><td>-8.64</td><td>41.80</td><td>17.76</td><td>Peak</td><td>100</td><td>40</td></tr></table>		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	3813.33	37.31	54.00	-16.69	34.01	3.30	Average	148	5	2	3813.33	47.22	74.00	-26.78	43.92	3.30	Peak	148	5	3	5005.00	46.18	54.00	-7.82	39.82	6.36	Average	303	165	4	5005.00	58.59	74.00	-15.41	52.23	6.36	Peak	303	165	5	5362.00	45.91	54.00	-8.09	39.52	6.39	Average	303	165	6	5362.00	58.33	74.00	-15.67	51.94	6.39	Peak	303	165	7	5460.00	46.60	54.00	-7.40	39.87	6.73	Average	303	165	8	5460.00	58.20	74.00	-15.80	51.47	6.73	Peak	303	165	9	5470.00	59.00	68.20	-9.20	52.24	6.76	Peak	303	165	10	5850.00	58.75	68.20	-9.45	51.27	7.48	Peak	303	165	11	11440.00	43.85	54.00	-10.15	27.68	16.17	Average	100	35	12	11440.00	56.78	74.00	-17.22	40.61	16.17	Peak	100	35	13	17160.00	59.56	68.20	-8.64	41.80	17.76	Peak	100	40		
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																																						
1	3813.33	37.31	54.00	-16.69	34.01	3.30	Average	148	5																																																																																																																																						
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10	5850.00	58.75	68.20	-9.45	51.27	7.48	Peak	303	165																																																																																																																																						
11	11440.00	43.85	54.00	-10.15	27.68	16.17	Average	100	35																																																																																																																																						
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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)	5745
Polarization	Horizontal		

Test By :BRAD WU

Temperature(°C):24

Humidity(%):63

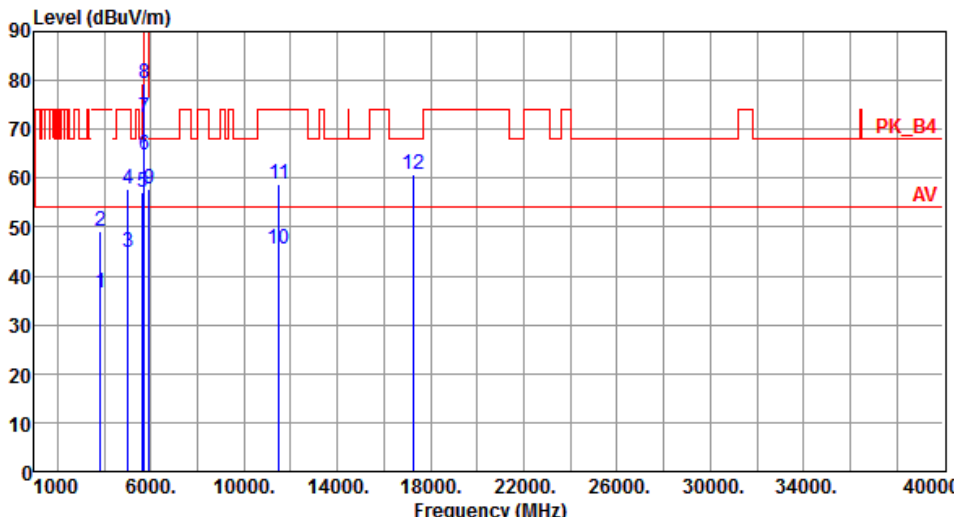


	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High cm	Turn Table deg
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB			
1	3830.00	42.84	54.00	-11.16	39.46	3.38	Average	275	282
2	3830.00	55.94	74.00	-18.06	52.56	3.38	Peak	275	282
3	5027.00	45.94	54.00	-8.06	39.48	6.46	Average	288	261
4	5027.00	58.77	74.00	-15.23	52.31	6.46	Peak	288	261
5	5650.00	63.97	68.20	-4.23	57.11	6.86	Peak	288	248
6	5700.00	72.83	105.20	-32.37	65.86	6.97	Peak	288	248
7	5720.00	80.68	110.80	-30.12	73.59	7.09	Peak	288	248
8	5725.00	88.88	122.20	-33.32	81.75	7.13	Peak	288	248
9	5925.00	61.80	68.20	-6.40	54.26	7.54	Peak	288	248
10	11490.00	46.65	54.00	-7.35	30.46	16.19	Average	118	21
11	11490.00	59.72	74.00	-14.28	43.53	16.19	Peak	118	21
12	17235.00	61.49	68.20	-6.71	43.47	18.02	Peak	106	30

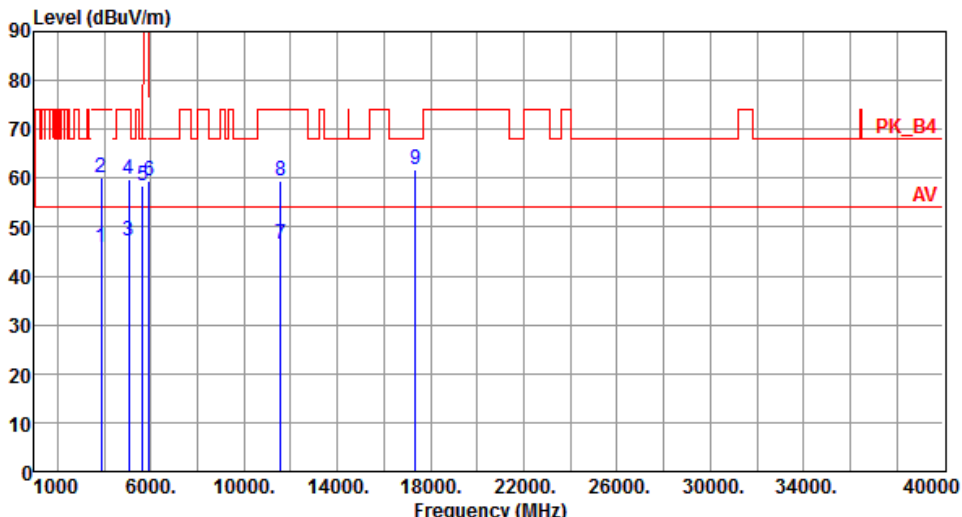
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

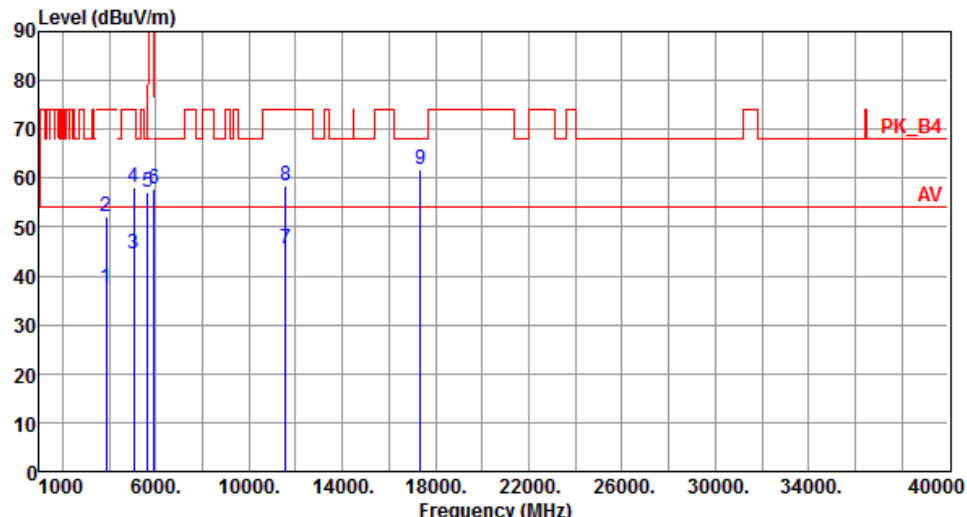
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT20	Test Freq. (MHz)	5745						
Polarization	Vertical								
Test By :BRAD WU Temperature(°C):24 Humidity(%):63									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3830.00	36.63	54.00	-17.37	33.25	3.38	Average	151	4
2	3830.00	49.23	74.00	-24.77	45.85	3.38	Peak	151	4
3	5027.00	44.72	54.00	-9.28	38.26	6.46	Average	305	165
4	5027.00	57.92	74.00	-16.08	51.46	6.46	Peak	305	165
5	5650.00	57.22	68.20	-10.98	50.36	6.86	Peak	305	165
6	5700.00	64.82	105.20	-40.38	57.85	6.97	Peak	305	165
7	5720.00	72.35	110.80	-38.45	65.26	7.09	Peak	305	165
8	5725.00	79.48	122.20	-42.72	72.35	7.13	Peak	305	165
9	5925.00	57.89	68.20	-10.31	50.35	7.54	Peak	305	165
10	11490.00	45.46	54.00	-8.54	29.27	16.19	Average	100	45
11	11490.00	58.76	74.00	-15.24	42.57	16.19	Peak	100	45
12	17235.00	60.61	68.20	-7.59	42.59	18.02	Peak	100	29

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).

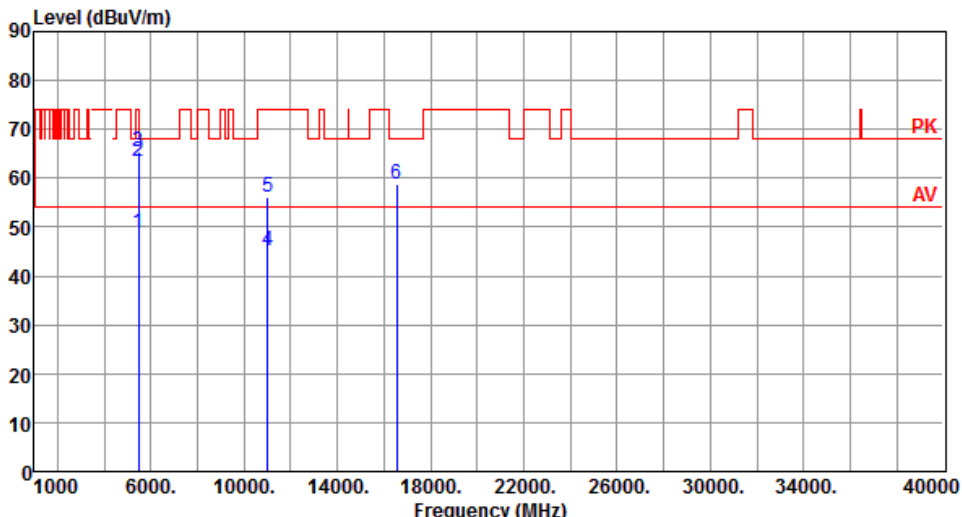
Modulation	VHT20	Test Freq. (MHz)	5785																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>3856.66</td><td>45.97</td><td>54.00</td><td>-8.03</td><td>42.46</td><td>3.51</td><td>Average</td><td>275</td><td>250</td></tr><tr><td>2</td><td>3856.66</td><td>60.16</td><td>74.00</td><td>-13.84</td><td>56.65</td><td>3.51</td><td>Peak</td><td>275</td><td>250</td></tr><tr><td>3</td><td>5062.00</td><td>47.07</td><td>54.00</td><td>-6.93</td><td>40.46</td><td>6.61</td><td>Average</td><td>285</td><td>255</td></tr><tr><td>4</td><td>5062.00</td><td>59.87</td><td>74.00</td><td>-14.13</td><td>53.26</td><td>6.61</td><td>Peak</td><td>285</td><td>255</td></tr><tr><td>5</td><td>5650.00</td><td>58.51</td><td>68.20</td><td>-9.69</td><td>51.65</td><td>6.86</td><td>Peak</td><td>285</td><td>250</td></tr><tr><td>6</td><td>5925.00</td><td>59.40</td><td>68.20</td><td>-8.80</td><td>51.86</td><td>7.54</td><td>Peak</td><td>285</td><td>250</td></tr><tr><td>7</td><td>11570.00</td><td>46.35</td><td>54.00</td><td>-7.65</td><td>30.31</td><td>16.04</td><td>Average</td><td>116</td><td>25</td></tr><tr><td>8</td><td>11570.00</td><td>59.60</td><td>74.00</td><td>-14.40</td><td>43.56</td><td>16.04</td><td>Peak</td><td>116</td><td>25</td></tr><tr><td>9</td><td>17355.00</td><td>61.85</td><td>68.20</td><td>-6.35</td><td>43.25</td><td>18.60</td><td>Peak</td><td>105</td><td>22</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	3856.66	45.97	54.00	-8.03	42.46	3.51	Average	275	250	2	3856.66	60.16	74.00	-13.84	56.65	3.51	Peak	275	250	3	5062.00	47.07	54.00	-6.93	40.46	6.61	Average	285	255	4	5062.00	59.87	74.00	-14.13	53.26	6.61	Peak	285	255	5	5650.00	58.51	68.20	-9.69	51.65	6.86	Peak	285	250	6	5925.00	59.40	68.20	-8.80	51.86	7.54	Peak	285	250	7	11570.00	46.35	54.00	-7.65	30.31	16.04	Average	116	25	8	11570.00	59.60	74.00	-14.40	43.56	16.04	Peak	116	25	9	17355.00	61.85	68.20	-6.35	43.25	18.60	Peak	105	22
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
1	3856.66	45.97	54.00	-8.03	42.46	3.51	Average	275	250																																																																																														
2	3856.66	60.16	74.00	-13.84	56.65	3.51	Peak	275	250																																																																																														
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5	5650.00	58.51	68.20	-9.69	51.65	6.86	Peak	285	250																																																																																														
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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)	5785																																																																																																				
Polarization	Vertical																																																																																																						
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>3856.66</td><td>37.63</td><td>54.00</td><td>-16.37</td><td>34.12</td><td>3.51</td><td>Average</td><td>151</td><td>5</td></tr><tr><td>2</td><td>3856.66</td><td>52.07</td><td>74.00</td><td>-21.93</td><td>48.56</td><td>3.51</td><td>Peak</td><td>151</td><td>5</td></tr><tr><td>3</td><td>5062.00</td><td>44.46</td><td>54.00</td><td>-9.54</td><td>37.85</td><td>6.61</td><td>Average</td><td>311</td><td>175</td></tr><tr><td>4</td><td>5062.00</td><td>58.03</td><td>74.00</td><td>-15.97</td><td>51.42</td><td>6.61</td><td>Peak</td><td>311</td><td>175</td></tr><tr><td>5</td><td>5650.00</td><td>57.01</td><td>68.20</td><td>-11.19</td><td>50.15</td><td>6.86</td><td>Peak</td><td>311</td><td>175</td></tr><tr><td>6</td><td>5925.00</td><td>57.86</td><td>68.20</td><td>-10.34</td><td>50.32</td><td>7.54</td><td>Peak</td><td>311</td><td>175</td></tr><tr><td>7</td><td>11570.00</td><td>45.62</td><td>54.00</td><td>-8.38</td><td>29.58</td><td>16.04</td><td>Average</td><td>100</td><td>40</td></tr><tr><td>8</td><td>11570.00</td><td>58.57</td><td>74.00</td><td>-15.43</td><td>42.53</td><td>16.04</td><td>Peak</td><td>100</td><td>40</td></tr><tr><td>9</td><td>17355.00</td><td>61.65</td><td>68.20</td><td>-6.55</td><td>43.05</td><td>18.60</td><td>Peak</td><td>100</td><td>60</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	Remark	ANT High cm	Turn Table deg	1	3856.66	37.63	54.00	-16.37	34.12	3.51	Average	151	5	2	3856.66	52.07	74.00	-21.93	48.56	3.51	Peak	151	5	3	5062.00	44.46	54.00	-9.54	37.85	6.61	Average	311	175	4	5062.00	58.03	74.00	-15.97	51.42	6.61	Peak	311	175	5	5650.00	57.01	68.20	-11.19	50.15	6.86	Peak	311	175	6	5925.00	57.86	68.20	-10.34	50.32	7.54	Peak	311	175	7	11570.00	45.62	54.00	-8.38	29.58	16.04	Average	100	40	8	11570.00	58.57	74.00	-15.43	42.53	16.04	Peak	100	40	9	17355.00	61.65	68.20	-6.55	43.05	18.60	Peak	100	60
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
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6	5925.00	57.86	68.20	-10.34	50.32	7.54	Peak	311	175																																																																																														
7	11570.00	45.62	54.00	-8.38	29.58	16.04	Average	100	40																																																																																														
8	11570.00	58.57	74.00	-15.43	42.53	16.04	Peak	100	40																																																																																														
9	17355.00	61.65	68.20	-6.55	43.05	18.60	Peak	100	60																																																																																														

3.5.14 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT40

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):25 Humidity(%):62			
Level (dBuV/m) <			

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):25 Humidity(%):62			
Level (dBUV/m)			

Modulation	VHT40	Test Freq. (MHz)	5510																																																																																										
Polarization	Horizontal																																																																																												
Test By :BRAD WU Temperature(°C):25 Humidity(%):62																																																																																													
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</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>5460.00</td><td>48.95</td><td>54.00</td><td>-5.05</td><td>42.22</td><td>6.73</td><td>Average</td><td>298</td><td>248</td></tr><tr><td>2</td><td>5460.00</td><td>63.38</td><td>74.00</td><td>-10.62</td><td>56.65</td><td>6.73</td><td>Peak</td><td>298</td><td>248</td></tr><tr><td>3</td><td>5470.00</td><td>65.45</td><td>68.20</td><td>-2.75</td><td>58.69</td><td>6.76</td><td>Peak</td><td>298</td><td>248</td></tr><tr><td>4</td><td>11020.00</td><td>45.04</td><td>54.00</td><td>-8.96</td><td>28.79</td><td>16.25</td><td>Average</td><td>100</td><td>60</td></tr><tr><td>5</td><td>11020.00</td><td>56.17</td><td>74.00</td><td>-17.83</td><td>39.92</td><td>16.25</td><td>Peak</td><td>100</td><td>60</td></tr><tr><td>6</td><td>16530.00</td><td>58.93</td><td>68.20</td><td>-9.27</td><td>41.72</td><td>17.21</td><td>Peak</td><td>100</td><td>30</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table						dBuV			cm	deg	1	5460.00	48.95	54.00	-5.05	42.22	6.73	Average	298	248	2	5460.00	63.38	74.00	-10.62	56.65	6.73	Peak	298	248	3	5470.00	65.45	68.20	-2.75	58.69	6.76	Peak	298	248	4	11020.00	45.04	54.00	-8.96	28.79	16.25	Average	100	60	5	11020.00	56.17	74.00	-17.83	39.92	16.25	Peak	100	60	6	16530.00	58.93	68.20	-9.27	41.72	17.21	Peak	100	30
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																				
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1	5460.00	48.95	54.00	-5.05	42.22	6.73	Average	298	248																																																																																				
2	5460.00	63.38	74.00	-10.62	56.65	6.73	Peak	298	248																																																																																				
3	5470.00	65.45	68.20	-2.75	58.69	6.76	Peak	298	248																																																																																				
4	11020.00	45.04	54.00	-8.96	28.79	16.25	Average	100	60																																																																																				
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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)	5510
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):25 Humidity(%):62			
Level (dBUV/m)			

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

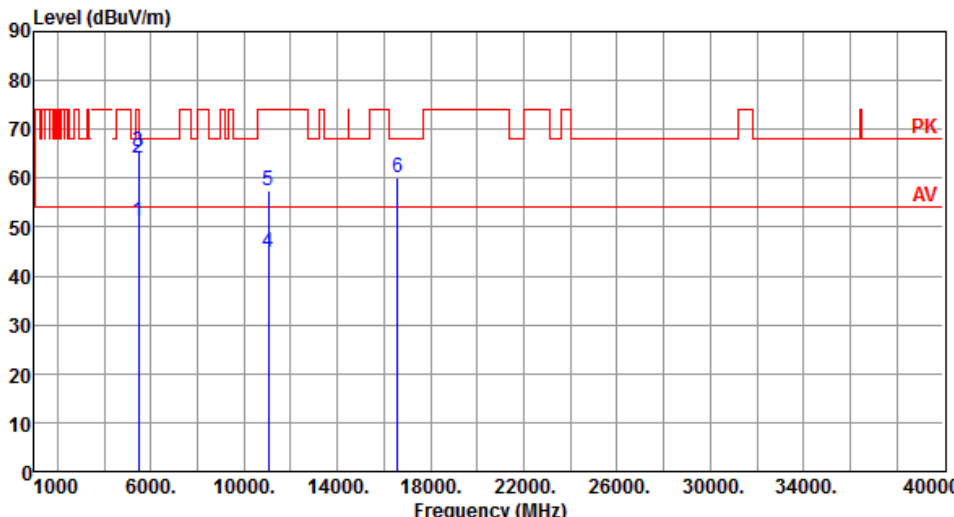
3.5.15 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT80

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :BRAD WU Temperature(℃):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		
Test By :BRAD WU Temperature(℃):24 Humidity(%):62			
Level (dBuV/m) <			

Modulation	VHT80	Test Freq. (MHz)	5530																																																																																
Polarization	Horizontal																																																																																		
Test By :BRAD WU Temperature(℃):24 Humidity(%):63																																																																																			
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</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5460.00</td><td>51.11</td><td>54.00</td><td>-2.89</td><td>44.38</td><td>6.73</td><td>Average</td><td>220</td><td>354</td></tr><tr><td>2</td><td>5460.00</td><td>64.04</td><td>74.00</td><td>-9.96</td><td>57.31</td><td>6.73</td><td>Peak</td><td>220</td><td>354</td></tr><tr><td>3</td><td>5470.00</td><td>65.53</td><td>68.20</td><td>-2.67</td><td>58.77</td><td>6.76</td><td>Peak</td><td>220</td><td>354</td></tr><tr><td>4</td><td>11060.00</td><td>44.68</td><td>54.00</td><td>-9.32</td><td>28.49</td><td>16.19</td><td>Average</td><td>100</td><td>70</td></tr><tr><td>5</td><td>11060.00</td><td>57.54</td><td>74.00</td><td>-16.46</td><td>41.35</td><td>16.19</td><td>Peak</td><td>100</td><td>70</td></tr><tr><td>6</td><td>16590.00</td><td>60.07</td><td>68.20</td><td>-8.13</td><td>42.48</td><td>17.59</td><td>Peak</td><td>100</td><td>20</td></tr></table>					Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	5460.00	51.11	54.00	-2.89	44.38	6.73	Average	220	354	2	5460.00	64.04	74.00	-9.96	57.31	6.73	Peak	220	354	3	5470.00	65.53	68.20	-2.67	58.77	6.76	Peak	220	354	4	11060.00	44.68	54.00	-9.32	28.49	16.19	Average	100	70	5	11060.00	57.54	74.00	-16.46	41.35	16.19	Peak	100	70	6	16590.00	60.07	68.20	-8.13	42.48	17.59	Peak	100	20
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																										
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																																										
1	5460.00	51.11	54.00	-2.89	44.38	6.73	Average	220	354																																																																										
2	5460.00	64.04	74.00	-9.96	57.31	6.73	Peak	220	354																																																																										
3	5470.00	65.53	68.20	-2.67	58.77	6.76	Peak	220	354																																																																										
4	11060.00	44.68	54.00	-9.32	28.49	16.19	Average	100	70																																																																										
5	11060.00	57.54	74.00	-16.46	41.35	16.19	Peak	100	70																																																																										
6	16590.00	60.07	68.20	-8.13	42.48	17.59	Peak	100	20																																																																										
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	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBUV/m)			

Configuration 3: PIFA Antenna

With model: ST60-2230C-P

3.5.16 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

With model: ST60-2230C-PU

3.5.17 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

With model: ST60-2230C-P

3.5.18 Transmitter Radiated Unwanted Emissions (Above 1GHz)_11a

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

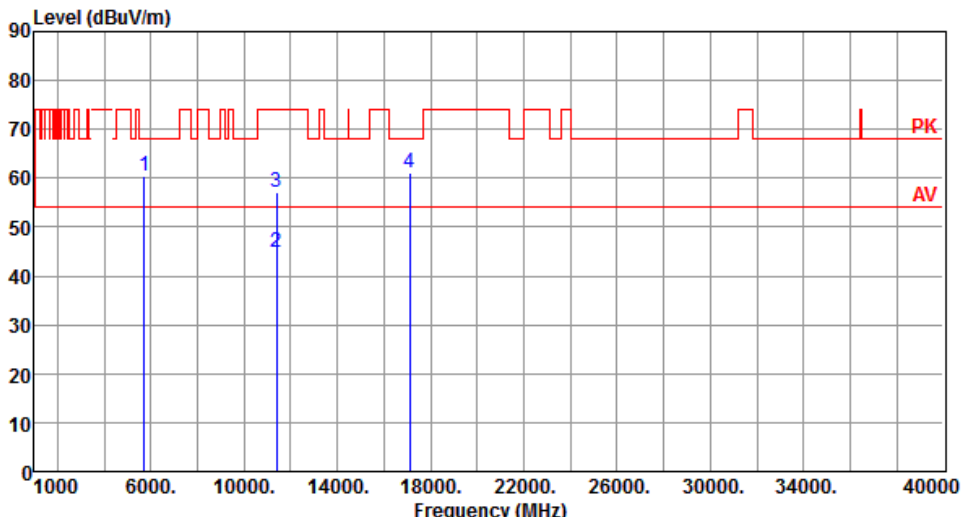
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

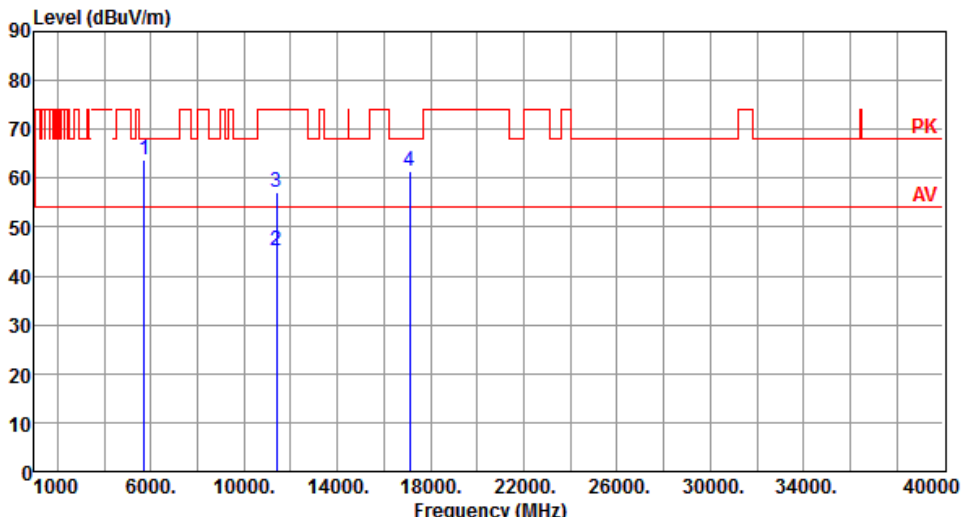
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):62			
Level (dBUV/m) <			

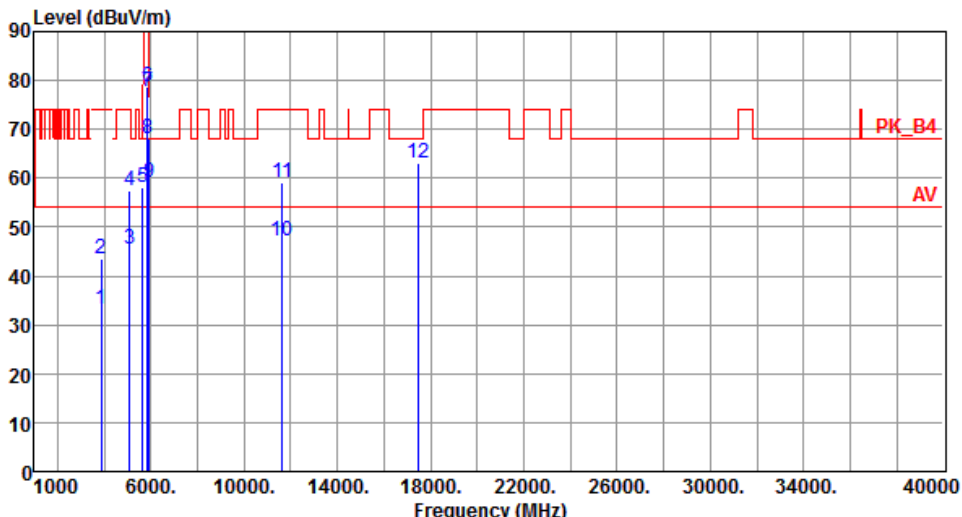
3.5.19 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT20

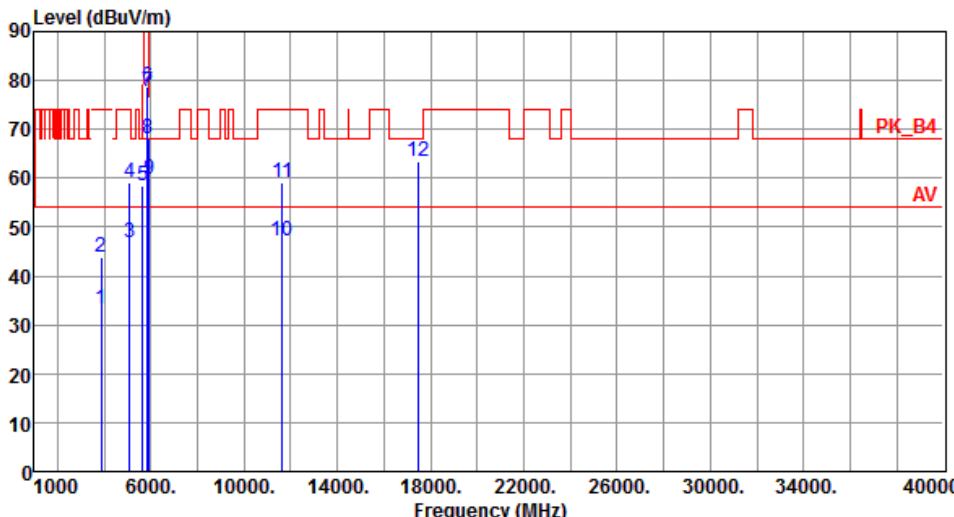
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :BRAD WU Temperature(℃):24 Humidity(%):62			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5700																																																		
Polarization	Horizontal																																																				
Test By :BRAD WU Temperature(°C):24 Humidity(%):62																																																					
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</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>60.58</td><td>68.20</td><td>-7.62</td><td>53.45</td><td>7.13</td><td>Peak</td><td>146</td><td>316</td></tr><tr><td>2</td><td>11400.00</td><td>44.81</td><td>54.00</td><td>-9.19</td><td>28.65</td><td>16.16</td><td>Average</td><td>100</td><td>40</td></tr><tr><td>3</td><td>11400.00</td><td>57.12</td><td>74.00</td><td>-16.88</td><td>40.96</td><td>16.16</td><td>Peak</td><td>100</td><td>40</td></tr><tr><td>4</td><td>17100.00</td><td>61.18</td><td>68.20</td><td>-7.02</td><td>43.55</td><td>17.63</td><td>Peak</td><td>100</td><td>50</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	Remark	ANT High cm	Turn Table deg	1	5725.00	60.58	68.20	-7.62	53.45	7.13	Peak	146	316	2	11400.00	44.81	54.00	-9.19	28.65	16.16	Average	100	40	3	11400.00	57.12	74.00	-16.88	40.96	16.16	Peak	100	40	4	17100.00	61.18	68.20	-7.02	43.55	17.63	Peak	100	50
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																												
1	5725.00	60.58	68.20	-7.62	53.45	7.13	Peak	146	316																																												
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Modulation	VHT20	Test Freq. (MHz)	5700																																																																						
Polarization	Vertical																																																																								
Test By :BRAD WU Temperature(℃):24 Humidity(%):62																																																																									
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</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>63.62</td><td>68.20</td><td>-4.58</td><td>56.49</td><td>7.13</td><td>Peak</td><td>317</td><td>172</td></tr><tr><td>2</td><td>11400.00</td><td>45.08</td><td>54.00</td><td>-8.92</td><td>28.92</td><td>16.16</td><td>Average</td><td>100</td><td>62</td></tr><tr><td>3</td><td>11400.00</td><td>57.16</td><td>74.00</td><td>-16.84</td><td>41.00</td><td>16.16</td><td>Peak</td><td>100</td><td>62</td></tr><tr><td>4</td><td>17100.00</td><td>61.48</td><td>68.20</td><td>-6.72</td><td>43.85</td><td>17.63</td><td>Peak</td><td>100</td><td>31</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	5725.00	63.62	68.20	-4.58	56.49	7.13	Peak	317	172	2	11400.00	45.08	54.00	-8.92	28.92	16.16	Average	100	62	3	11400.00	57.16	74.00	-16.84	41.00	16.16	Peak	100	62	4	17100.00	61.48	68.20	-6.72	43.85	17.63	Peak	100	31
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																
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Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																																																								
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Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																																																		
Polarization	Vertical																																																																																																																																				
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6	5850.00	78.81	122.20	-43.39	71.33	7.48	Peak	314	23																																																																																																																												
7	5855.00	77.78	110.80	-33.02	70.30	7.48	Peak	314	23																																																																																																																												
8	5875.00	68.07	105.20	-37.13	60.58	7.49	Peak	314	23																																																																																																																												
9	5925.00	59.80	68.20	-8.40	52.26	7.54	Peak	314	23																																																																																																																												
10	11650.00	47.28	54.00	-6.72	31.48	15.80	Average	112	47																																																																																																																												
11	11650.00	59.25	74.00	-14.75	43.45	15.80	Peak	112	47																																																																																																																												
12	17475.00	63.36	68.20	-4.84	44.25	19.11	Peak	105	26																																																																																																																												
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).																																																																																																																																					

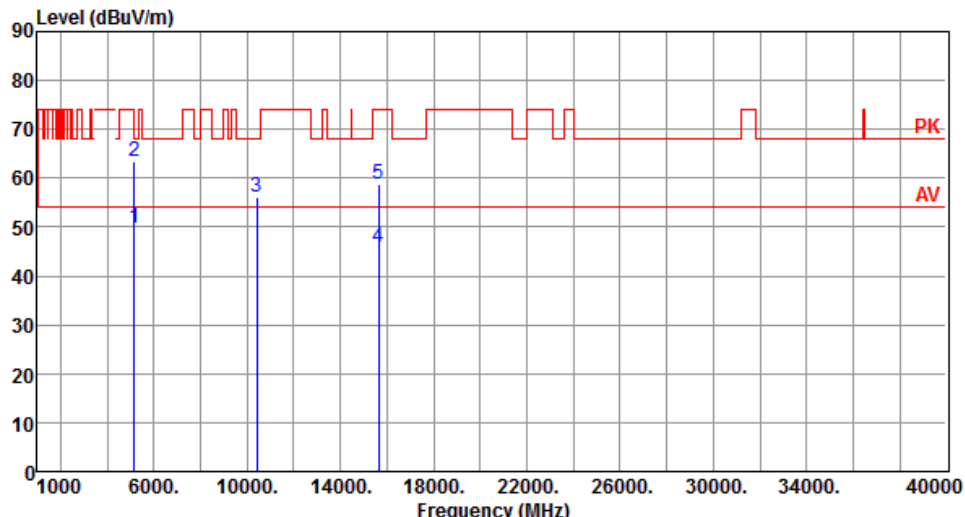
3.5.20 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT40

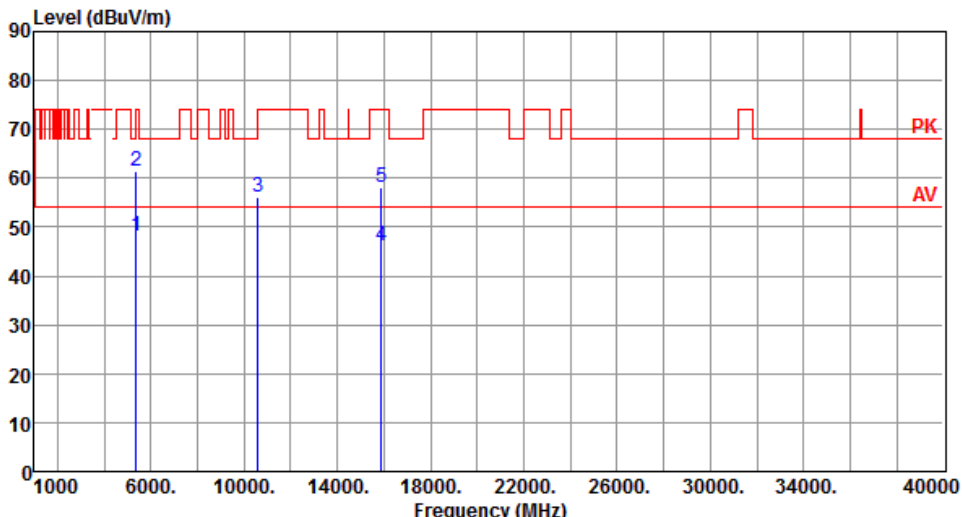
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):62			
Level (dBuV/m) </			

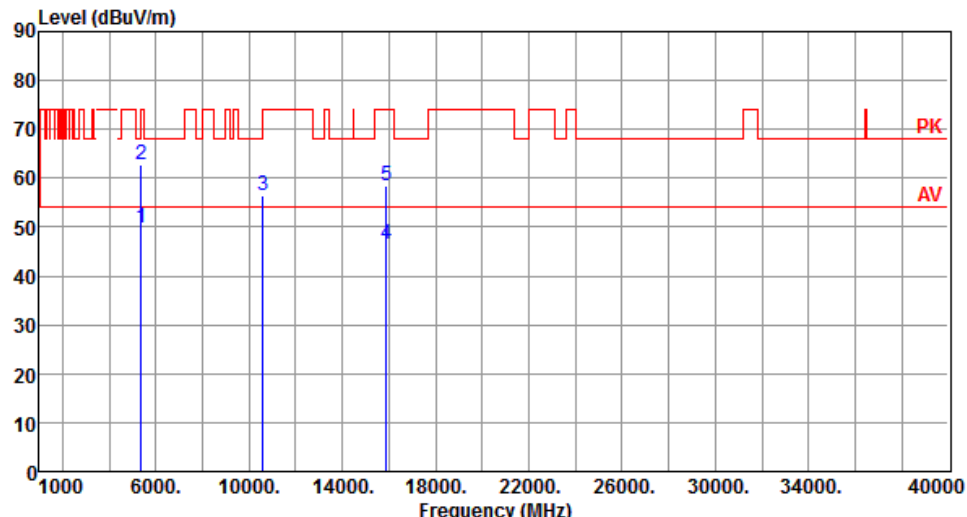
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):62			
Level (dBUV/m)			

3.5.21 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT80

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :BRAD WU Temperature(℃):24 Humidity(%):62			
Level (dBuV/m) </			

Modulation	VHT80	Test Freq. (MHz)	5210																																																												
Polarization	Vertical																																																														
Test By :BRAD WU Temperature(℃):24 Humidity(%):62																																																															
																																																															
	<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</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5150.00</td><td>49.89</td><td>54.00</td><td>-4.11</td><td>43.10</td><td>6.79</td><td>Average</td><td>316</td><td>168</td></tr><tr><td>2</td><td>5150.00</td><td>63.33</td><td>74.00</td><td>-10.67</td><td>56.54</td><td>6.79</td><td>Peak</td><td>316</td><td>168</td></tr><tr><td>3</td><td>10420.00</td><td>56.28</td><td>68.20</td><td>-11.92</td><td>40.56</td><td>15.72</td><td>Peak</td><td>114</td><td>28</td></tr><tr><td>4</td><td>15630.00</td><td>45.80</td><td>54.00</td><td>-8.20</td><td>29.37</td><td>16.43</td><td>Average</td><td>100</td><td>49</td></tr><tr><td>5</td><td>15630.00</td><td>58.77</td><td>74.00</td><td>-15.23</td><td>42.34</td><td>16.43</td><td>Peak</td><td>100</td><td>49</td></tr></table>	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	49.89	54.00	-4.11	43.10	6.79	Average	316	168	2	5150.00	63.33	74.00	-10.67	56.54	6.79	Peak	316	168	3	10420.00	56.28	68.20	-11.92	40.56	15.72	Peak	114	28	4	15630.00	45.80	54.00	-8.20	29.37	16.43	Average	100	49	5	15630.00	58.77	74.00	-15.23	42.34	16.43	Peak	100	49			
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																							
1	5150.00	49.89	54.00	-4.11	43.10	6.79	Average	316	168																																																						
2	5150.00	63.33	74.00	-10.67	56.54	6.79	Peak	316	168																																																						
3	10420.00	56.28	68.20	-11.92	40.56	15.72	Peak	114	28																																																						
4	15630.00	45.80	54.00	-8.20	29.37	16.43	Average	100	49																																																						
5	15630.00	58.77	74.00	-15.23	42.34	16.43	Peak	100	49																																																						
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).																																																															

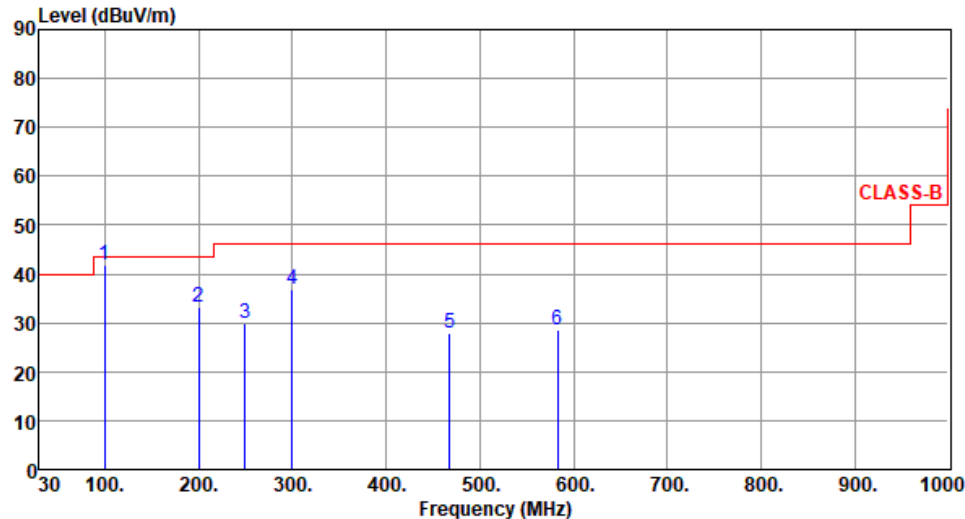
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		
Test By :BRAD WU Temperature(℃):24 Humidity(%):62			
Level (dBuV/m)  Freq. Emission Limit Margin SA Factor Remark ANT Turn MHz level dBuV/m dBuV/m dB reading dBuV dB cm Table deg 1 5350.00 48.05 54.00 -5.95 41.72 6.33 Average 149 319 2 5350.00 61.56 74.00 -12.44 55.23 6.33 Peak 149 319 3 10580.00 56.24 68.20 -11.96 40.45 15.79 Peak 101 78 4 15870.00 46.22 54.00 -7.78 30.23 15.99 Average 100 33 5 15870.00 58.24 74.00 -15.76 42.25 15.99 Peak 100 33			
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	VHT80	Test Freq. (MHz)	5290																																																												
Polarization	Vertical																																																														
Test By :BRAD WU Temperature(°C):24 Humidity(%):62																																																															
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</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5350.00</td><td>49.91</td><td>54.00</td><td>-4.09</td><td>43.58</td><td>6.33</td><td>Average</td><td>314</td><td>168</td></tr><tr><td>2</td><td>5350.00</td><td>62.90</td><td>74.00</td><td>-11.10</td><td>56.57</td><td>6.33</td><td>Peak</td><td>314</td><td>168</td></tr><tr><td>3</td><td>10580.00</td><td>56.41</td><td>68.20</td><td>-11.79</td><td>40.62</td><td>15.79</td><td>Peak</td><td>100</td><td>22</td></tr><tr><td>4</td><td>15870.00</td><td>46.35</td><td>54.00</td><td>-7.65</td><td>30.36</td><td>15.99</td><td>Average</td><td>105</td><td>39</td></tr><tr><td>5</td><td>15870.00</td><td>58.29</td><td>74.00</td><td>-15.71</td><td>42.30</td><td>15.99</td><td>Peak</td><td>105</td><td>39</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5350.00	49.91	54.00	-4.09	43.58	6.33	Average	314	168	2	5350.00	62.90	74.00	-11.10	56.57	6.33	Peak	314	168	3	10580.00	56.41	68.20	-11.79	40.62	15.79	Peak	100	22	4	15870.00	46.35	54.00	-7.65	30.36	15.99	Average	105	39	5	15870.00	58.29	74.00	-15.71	42.30	15.99	Peak	105	39
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																						
1	5350.00	49.91	54.00	-4.09	43.58	6.33	Average	314	168																																																						
2	5350.00	62.90	74.00	-11.10	56.57	6.33	Peak	314	168																																																						
3	10580.00	56.41	68.20	-11.79	40.62	15.79	Peak	100	22																																																						
4	15870.00	46.35	54.00	-7.65	30.36	15.99	Average	105	39																																																						
5	15870.00	58.29	74.00	-15.71	42.30	15.99	Peak	105	39																																																						
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).																																																															

Configuration 4: Isolated Magnetic Dipole Antenna

With model: **ST60-2230C-P**

3.5.22 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5580						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):24 Humidity(%):63									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	99.60	41.96	43.50	-1.54	55.92	-13.96	QP	200	274
2	199.75	33.06	43.50	-10.44	45.43	-12.37	Peak	---	---
3	249.22	29.95	46.00	-16.05	40.30	-10.35	Peak	---	---
4	299.66	36.78	46.00	-9.22	45.43	-8.65	Peak	---	---
5	467.47	27.93	46.00	-18.07	31.76	-3.83	Peak	---	---
6	582.90	28.72	46.00	-17.28	30.05	-1.33	Peak	---	---

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).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

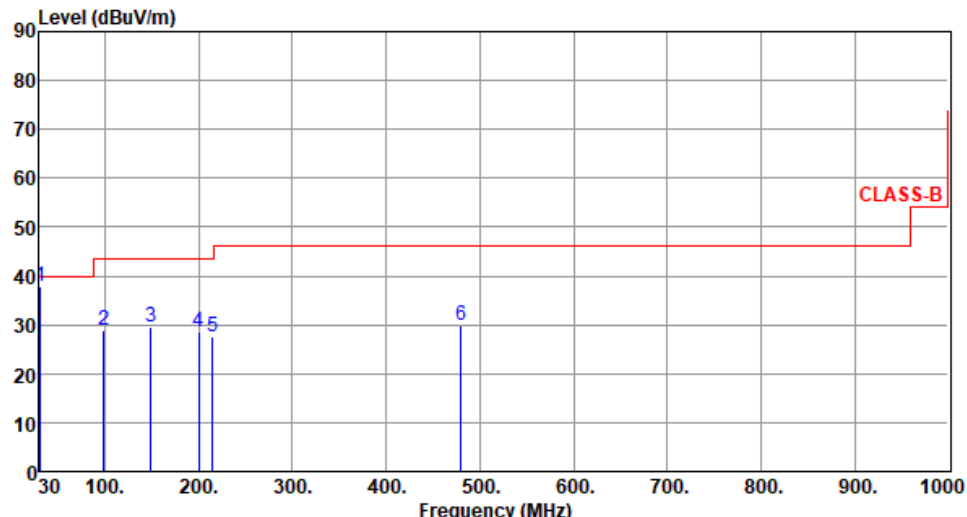
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) <			

With model: ST60-2230C-PU

3.5.23 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5580																																																																						
Polarization	Vertical																																																																								
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																																									
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>30.97</td><td>37.93</td><td>40.00</td><td>-2.07</td><td>48.05</td><td>-10.12</td><td>QP</td><td>100</td><td>91</td></tr><tr><td>2</td><td>98.87</td><td>28.77</td><td>43.50</td><td>-14.73</td><td>42.97</td><td>-14.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>149.31</td><td>29.60</td><td>43.50</td><td>-13.90</td><td>38.68</td><td>-9.08</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>199.75</td><td>28.70</td><td>43.50</td><td>-14.80</td><td>41.07</td><td>-12.37</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>215.27</td><td>27.66</td><td>43.50</td><td>-15.84</td><td>40.04</td><td>-12.38</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>480.08</td><td>29.94</td><td>46.00</td><td>-16.06</td><td>33.56</td><td>-3.62</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	30.97	37.93	40.00	-2.07	48.05	-10.12	QP	100	91	2	98.87	28.77	43.50	-14.73	42.97	-14.20	Peak	---	---	3	149.31	29.60	43.50	-13.90	38.68	-9.08	Peak	---	---	4	199.75	28.70	43.50	-14.80	41.07	-12.37	Peak	---	---	5	215.27	27.66	43.50	-15.84	40.04	-12.38	Peak	---	---	6	480.08	29.94	46.00	-16.06	33.56	-3.62	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
1	30.97	37.93	40.00	-2.07	48.05	-10.12	QP	100	91																																																																
2	98.87	28.77	43.50	-14.73	42.97	-14.20	Peak	---	---																																																																
3	149.31	29.60	43.50	-13.90	38.68	-9.08	Peak	---	---																																																																
4	199.75	28.70	43.50	-14.80	41.07	-12.37	Peak	---	---																																																																
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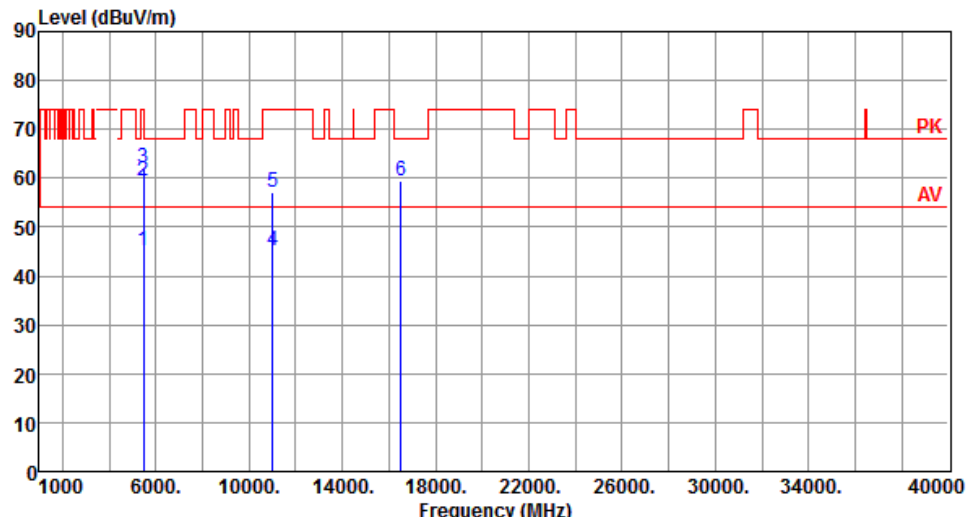
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

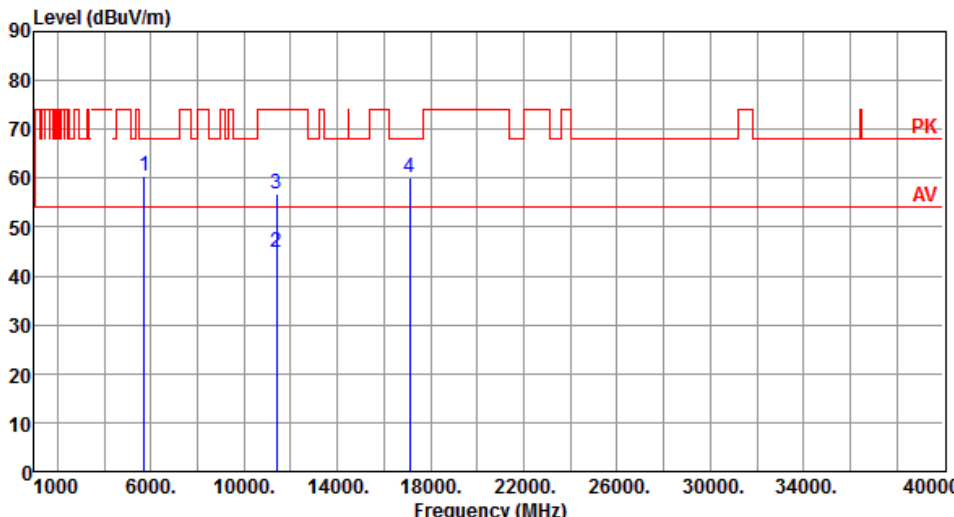
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) </			

With model: ST60-2230C-P

3.5.24 Transmitter Radiated Unwanted Emissions (Above 1GHz)_11a

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5500																																																																						
Polarization	Vertical																																																																								
Test By :BRAD WU Temperature(℃):24 Humidity(%):63																																																																									
 <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</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5460.00</td><td>45.06</td><td>54.00</td><td>-8.94</td><td>38.33</td><td>6.73</td><td>Average</td><td>239</td><td>165</td></tr><tr><td>2</td><td>5460.00</td><td>59.29</td><td>74.00</td><td>-14.71</td><td>52.56</td><td>6.73</td><td>Peak</td><td>239</td><td>165</td></tr><tr><td>3</td><td>5470.00</td><td>62.27</td><td>68.20</td><td>-5.93</td><td>55.51</td><td>6.76</td><td>Peak</td><td>239</td><td>165</td></tr><tr><td>4</td><td>11000.00</td><td>45.15</td><td>54.00</td><td>-8.85</td><td>28.87</td><td>16.28</td><td>Average</td><td>100</td><td>54</td></tr><tr><td>5</td><td>11000.00</td><td>57.12</td><td>74.00</td><td>-16.88</td><td>40.84</td><td>16.28</td><td>Peak</td><td>100</td><td>54</td></tr><tr><td>6</td><td>16500.00</td><td>59.51</td><td>68.20</td><td>-8.69</td><td>42.49</td><td>17.02</td><td>Peak</td><td>100</td><td>38</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5460.00	45.06	54.00	-8.94	38.33	6.73	Average	239	165	2	5460.00	59.29	74.00	-14.71	52.56	6.73	Peak	239	165	3	5470.00	62.27	68.20	-5.93	55.51	6.76	Peak	239	165	4	11000.00	45.15	54.00	-8.85	28.87	16.28	Average	100	54	5	11000.00	57.12	74.00	-16.88	40.84	16.28	Peak	100	54	6	16500.00	59.51	68.20	-8.69	42.49	17.02	Peak	100	38
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
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5	11000.00	57.12	74.00	-16.88	40.84	16.28	Peak	100	54																																																																
6	16500.00	59.51	68.20	-8.69	42.49	17.02	Peak	100	38																																																																
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 :BRAD WU Temperature(°C):24 Humidity(%):63																																																																									
Level (dBUV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</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>60.57</td><td>68.20</td><td>-7.63</td><td>53.44</td><td>7.13</td><td>Peak</td><td>126</td><td>127</td></tr><tr><td>2</td><td>11400.00</td><td>44.75</td><td>54.00</td><td>-9.25</td><td>28.59</td><td>16.16</td><td>Average</td><td>100</td><td>55</td></tr><tr><td>3</td><td>11400.00</td><td>56.74</td><td>74.00</td><td>-17.26</td><td>40.58</td><td>16.16</td><td>Peak</td><td>100</td><td>55</td></tr><tr><td>4</td><td>17100.00</td><td>60.21</td><td>68.20</td><td>-7.99</td><td>42.58</td><td>17.63</td><td>Peak</td><td>100</td><td>30</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	5725.00	60.57	68.20	-7.63	53.44	7.13	Peak	126	127	2	11400.00	44.75	54.00	-9.25	28.59	16.16	Average	100	55	3	11400.00	56.74	74.00	-17.26	40.58	16.16	Peak	100	55	4	17100.00	60.21	68.20	-7.99	42.58	17.63	Peak	100	30
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																
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Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) <			

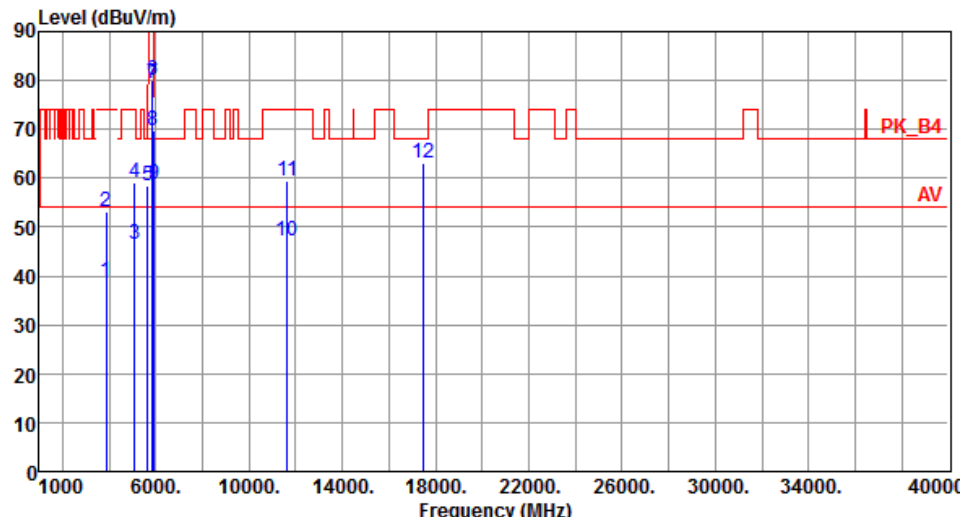
3.5.25 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT20

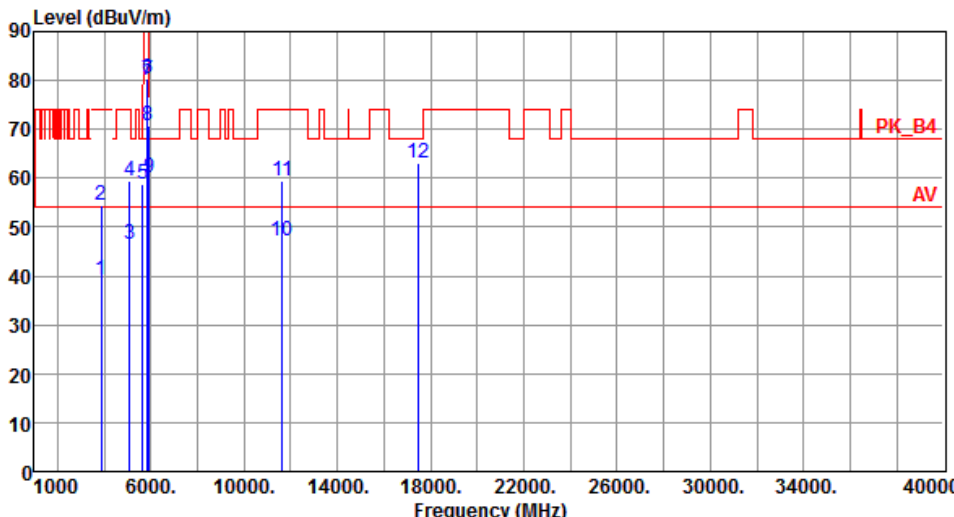
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :BRAD WU Temperature(℃):24 Humidity(%):63			
Level (dBUV/m)			

Modulation	VHT20	Test Freq. (MHz)	5700																																																												
Polarization	Vertical																																																														
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																															
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Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																																																																						
Polarization	Horizontal																																																																																																																																																								
Test By :BRAD WU Temperature(℃):24 Humidity(%):63																																																																																																																																																									
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																																
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Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																																																		
Polarization	Vertical																																																																																																																																				
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																																																																																																					
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</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>39.20</td><td>54.00</td><td>-14.80</td><td>35.57</td><td>3.63</td><td>Average</td><td>205</td><td>180</td></tr><tr><td>2</td><td>3883.33</td><td>54.57</td><td>74.00</td><td>-19.43</td><td>50.94</td><td>3.63</td><td>Peak</td><td>205</td><td>180</td></tr><tr><td>3</td><td>5099.00</td><td>46.39</td><td>54.00</td><td>-7.61</td><td>39.62</td><td>6.77</td><td>Average</td><td>222</td><td>156</td></tr><tr><td>4</td><td>5099.00</td><td>59.38</td><td>74.00</td><td>-14.62</td><td>52.61</td><td>6.77</td><td>Peak</td><td>222</td><td>156</td></tr><tr><td>5</td><td>5650.00</td><td>58.62</td><td>68.20</td><td>-9.58</td><td>51.76</td><td>6.86</td><td>Peak</td><td>211</td><td>147</td></tr><tr><td>6</td><td>5850.00</td><td>80.46</td><td>122.20</td><td>-41.74</td><td>72.98</td><td>7.48</td><td>Peak</td><td>211</td><td>147</td></tr><tr><td>7</td><td>5855.00</td><td>79.90</td><td>110.80</td><td>-30.90</td><td>72.42</td><td>7.48</td><td>Peak</td><td>211</td><td>147</td></tr><tr><td>8</td><td>5875.00</td><td>70.59</td><td>105.20</td><td>-34.61</td><td>63.10</td><td>7.49</td><td>Peak</td><td>211</td><td>147</td></tr><tr><td>9</td><td>5925.00</td><td>60.10</td><td>68.20</td><td>-8.10</td><td>52.56</td><td>7.54</td><td>Peak</td><td>211</td><td>147</td></tr><tr><td>10</td><td>11650.00</td><td>47.05</td><td>54.00</td><td>-6.95</td><td>31.25</td><td>15.80</td><td>Average</td><td>100</td><td>16</td></tr><tr><td>11</td><td>11650.00</td><td>59.29</td><td>74.00</td><td>-14.71</td><td>43.49</td><td>15.80</td><td>Peak</td><td>100</td><td>16</td></tr><tr><td>12</td><td>17475.00</td><td>63.14</td><td>68.20</td><td>-5.06</td><td>44.03</td><td>19.11</td><td>Peak</td><td>100</td><td>16</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	3883.33	39.20	54.00	-14.80	35.57	3.63	Average	205	180	2	3883.33	54.57	74.00	-19.43	50.94	3.63	Peak	205	180	3	5099.00	46.39	54.00	-7.61	39.62	6.77	Average	222	156	4	5099.00	59.38	74.00	-14.62	52.61	6.77	Peak	222	156	5	5650.00	58.62	68.20	-9.58	51.76	6.86	Peak	211	147	6	5850.00	80.46	122.20	-41.74	72.98	7.48	Peak	211	147	7	5855.00	79.90	110.80	-30.90	72.42	7.48	Peak	211	147	8	5875.00	70.59	105.20	-34.61	63.10	7.49	Peak	211	147	9	5925.00	60.10	68.20	-8.10	52.56	7.54	Peak	211	147	10	11650.00	47.05	54.00	-6.95	31.25	15.80	Average	100	16	11	11650.00	59.29	74.00	-14.71	43.49	15.80	Peak	100	16	12	17475.00	63.14	68.20	-5.06	44.03	19.11	Peak	100	16
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																												
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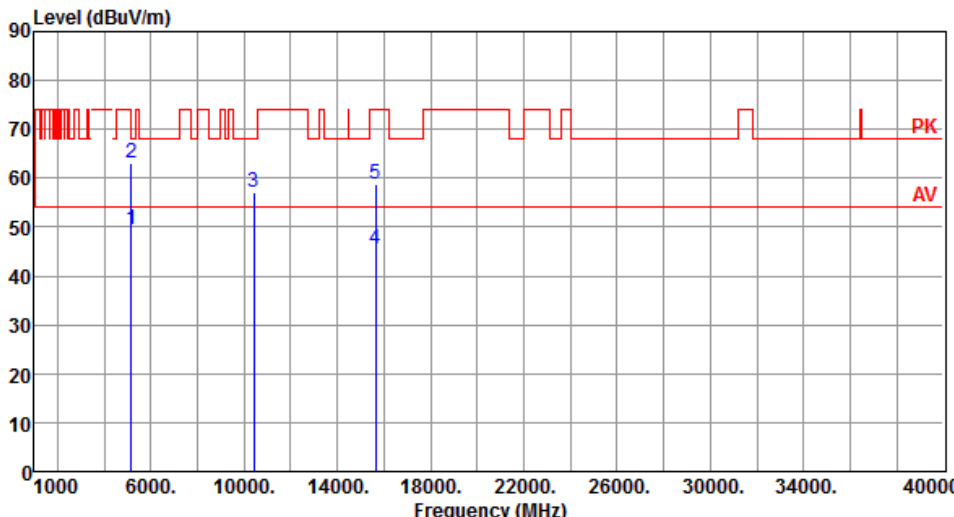
3.5.26 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT40

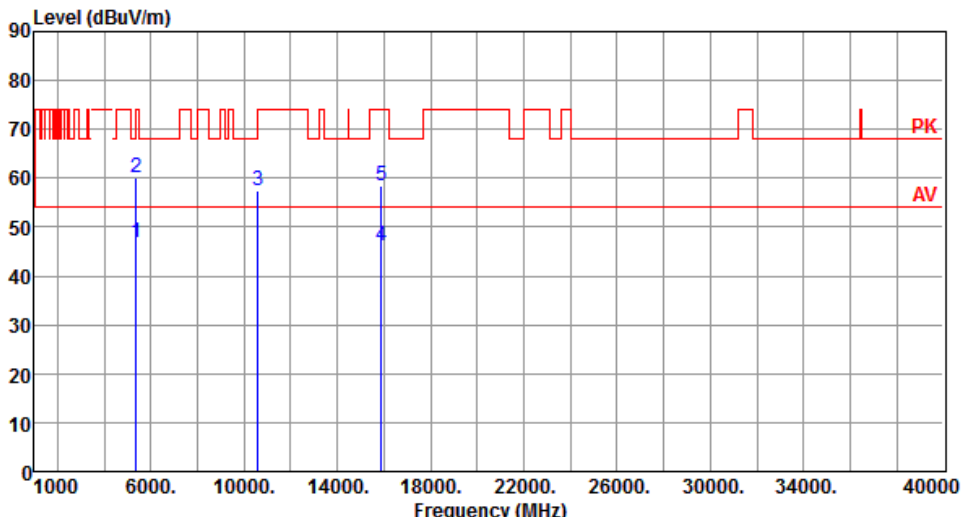
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):62			
Level (dBuV/m)			

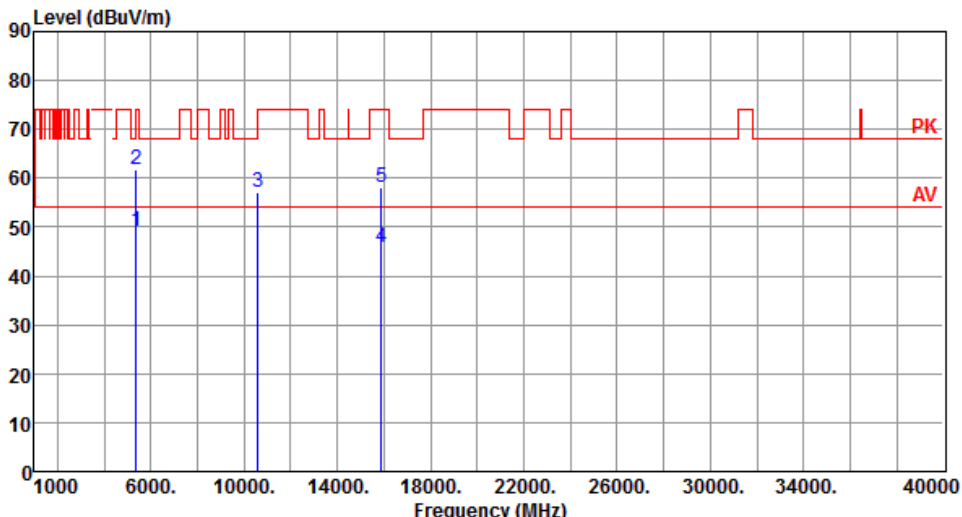
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):62			
Level (dBUV/m)			

3.5.27 Transmitter Radiated Unwanted Emissions (Above 1GHz)_VHT80

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :BRAD WU Temperature(℃):24 Humidity(%):62			
Level (dBuV/m) <			

Modulation	VHT80	Test Freq. (MHz)	5210																																																						
Polarization	Vertical																																																								
Test By :BRAD WU Temperature(℃):24 Humidity(%):62																																																									
																																																									
	<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</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5150.00</td><td>49.65</td><td>54.00</td><td>-4.35</td><td>42.86</td><td>6.79</td><td>Average</td><td>214 178</td></tr><tr><td>2</td><td>5150.00</td><td>63.13</td><td>74.00</td><td>-10.87</td><td>56.34</td><td>6.79</td><td>Peak</td><td>214 178</td></tr><tr><td>3</td><td>10420.00</td><td>57.10</td><td>68.20</td><td>-11.10</td><td>41.38</td><td>15.72</td><td>Peak</td><td>100 60</td></tr><tr><td>4</td><td>15630.00</td><td>45.61</td><td>54.00</td><td>-8.39</td><td>29.18</td><td>16.43</td><td>Average</td><td>100 30</td></tr><tr><td>5</td><td>15630.00</td><td>58.90</td><td>74.00</td><td>-15.10</td><td>42.47</td><td>16.43</td><td>Peak</td><td>100 30</td></tr></table>	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	49.65	54.00	-4.35	42.86	6.79	Average	214 178	2	5150.00	63.13	74.00	-10.87	56.34	6.79	Peak	214 178	3	10420.00	57.10	68.20	-11.10	41.38	15.72	Peak	100 60	4	15630.00	45.61	54.00	-8.39	29.18	16.43	Average	100 30	5	15630.00	58.90	74.00	-15.10	42.47	16.43	Peak	100 30		
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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 Corp (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

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Kwei Shan

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No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

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City 333, Taiwan, R.O.C.

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

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