

FCC Test Report

FCC ID : I88WSQ60
Equipment : Multy X AC3000 Tri-Band WiFi System
Model No. : WSQ50
Multiple Listing : Refer to item 1.1.1 for more details
Brand Name : ZYXEL
Applicant : Zyxel Communications Corporation
Address : No.2, Industry East Road IX, Hsinchu Science
Park, Hsinchu, 30075, Taiwan, R.O.C.
Standard : 47 CFR FCC Part 15.407
Received Date : Jan. 31, 2018
Tested Date : Aug. 11 ~ Aug. 22, 2017 (for original test)
Mar. 07 ~ May 02, 2018 (for new test)

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
FR760801-02AN	Rev. 01	Initial issue	Jun. 15, 2018

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.481MHz 31.13 (Margin -15.19dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 15600.00MHz 53.89 (Margin -0.11dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: Non-beamforming mode 5150-5250MHz: 26.92 5725-5850MHz: 29.81 Beamforming mode 5725-5850MHz: 28.92	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
ZYLXEL	WSQ50	Multy X AC3000 Tri-Band WiFi System	For marketing different
	WSQ60	Multy Plus AC3000 Tri-Band WiFi System	

† All models are electrically identical, different model names are for marketing purpose.
 † The above models, model **WSQ50** was selected as a representative one for the final test and only its data was recorded in this report.

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	a	5180-5240	36-48 [4]	2	6-54 Mbps
5150-5250	n (HT20)	5180-5240	36-48 [4]	2	MCS 0-15
5150-5250	n (HT40)	5190-5230	38-46 [2]	2	MCS 0-15
5150-5250	ac (VHT20)	5180-5240	36-48 [4]	2	MCS 0-9
5150-5250	ac (VHT40)	5190-5230	38-46 [2]	2	MCS 0-9
5150-5250	ac (VHT80)	5210	42 [1]	2	MCS 0-9

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: 802.11ac does not support beamforming function.

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N_{TX})	Data Rate / MCS
5725-5850	a	5745-5825	149-165 [5]	4	6-54 Mbps
5725-5850	n (HT20)	5745-5825	149-165 [5]	4	MCS 0-31
5725-5850	n (HT40)	5755-5795	151-159 [2]	4	MCS 0-31
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	4	MCS 0-9
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	4	MCS 0-9
5725-5850	ac (VHT80)	5775	155 [1]	4	MCS 0-9

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: 802.11ac supports beamforming function.

1.1.3 Main Chipset / RF Chipset

Function	Model No.
Main Chipset	IPQ4019
2.4G	IPQ4019
5G 2T2R	IPQ4019
5G 4T4R	QCA9984
Bluetooth LE	CSR8811

1.1.4 Antenna Details (New addition is marked in boldface.)

Ant. No.	Model	Type	Connector	Operating Frequency (MHz) / Gain (dBi)		
				2400~2483.5	5150~5250	5725~5850
1	ALX17P-051XXB-00	PCB dipole	UFL	0	0	0
2	ALX17P-051XXC-00	PCB dipole	UFL	0	0	0
3	ALX17P-091XX5-00	PCB dipole	UFL	0	0	0
4	ALX17P-091XX6-00	PCB dipole	UFL	0	0	0
5	ALX17P-091XX7-00	PCB dipole	UFL	0	0	0
6	ALX17P-091XX8-00	PCB dipole	UFL	0	0	0
7	ALX17P-091XX9-00	PCB dipole	UFL	0	0	0
8	ALX17P-091XXA-00	PCB dipole	UFL	0	0	0

1.1.5 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter
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1.1.6 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand Name: APD Model Name: WA-36A12FU I/P: 100-240Vac, 50-60Hz 0.9 Max O/P: 12Vdc, 3A Power line: 1.75m non-shielded without core
2	AC adapter	Brand Name: APD Model Name: WA-36A12R I/P: 100-240Vac, 50-60Hz 0.9 Max O/P: 12Vdc, 3A Power line: 1.75m non-shielded without core
3	RJ45 cable	1.9m non-shielded without core

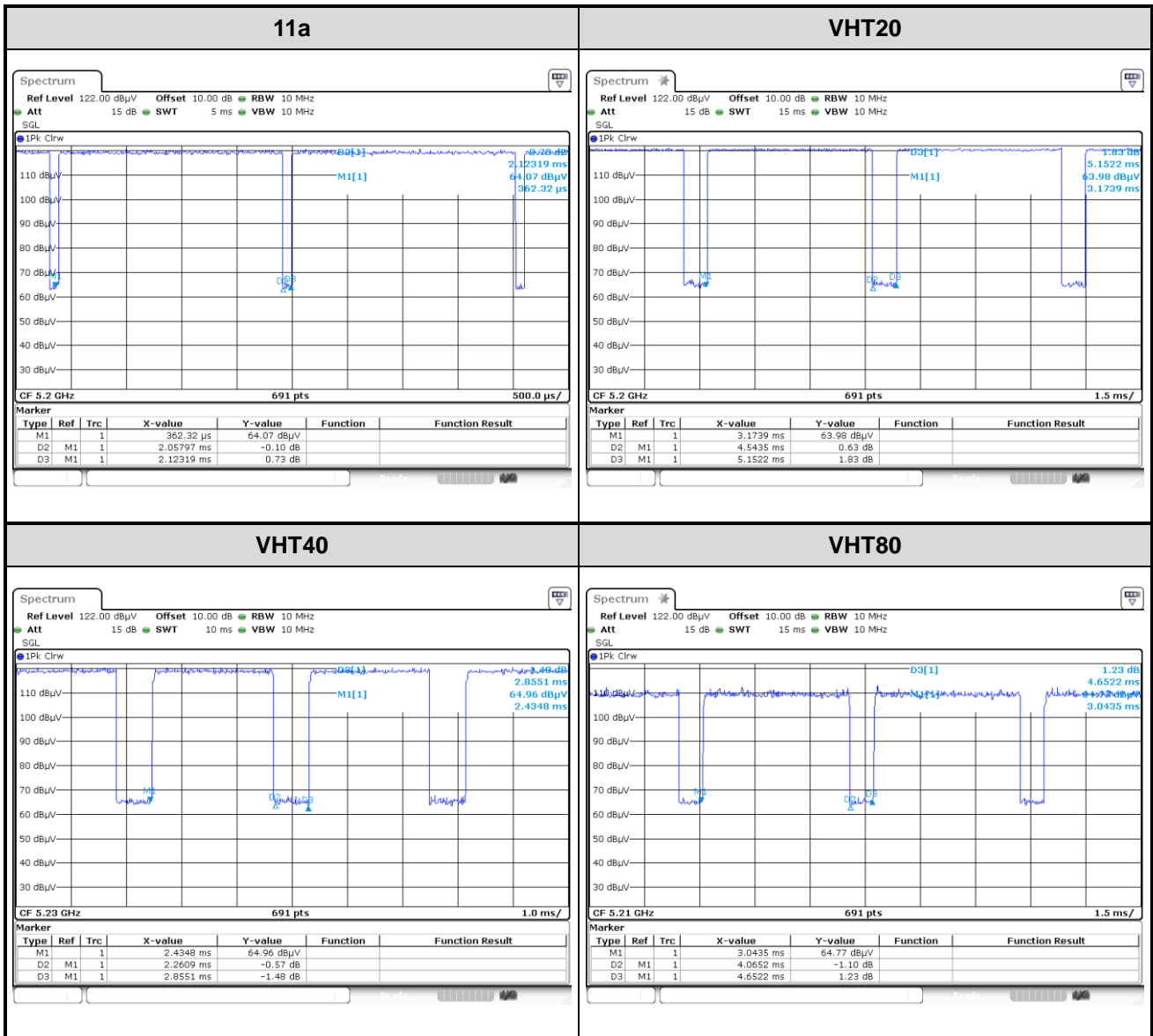
1.1.7 Channel List

For Frequency band 5150-5250 MHz			
802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	VHT80	
48	5240	42	5210

For Frequency band 5725~5850 MHz			
802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	VHT80	
161	5805	155	5775
165	5825	---	---

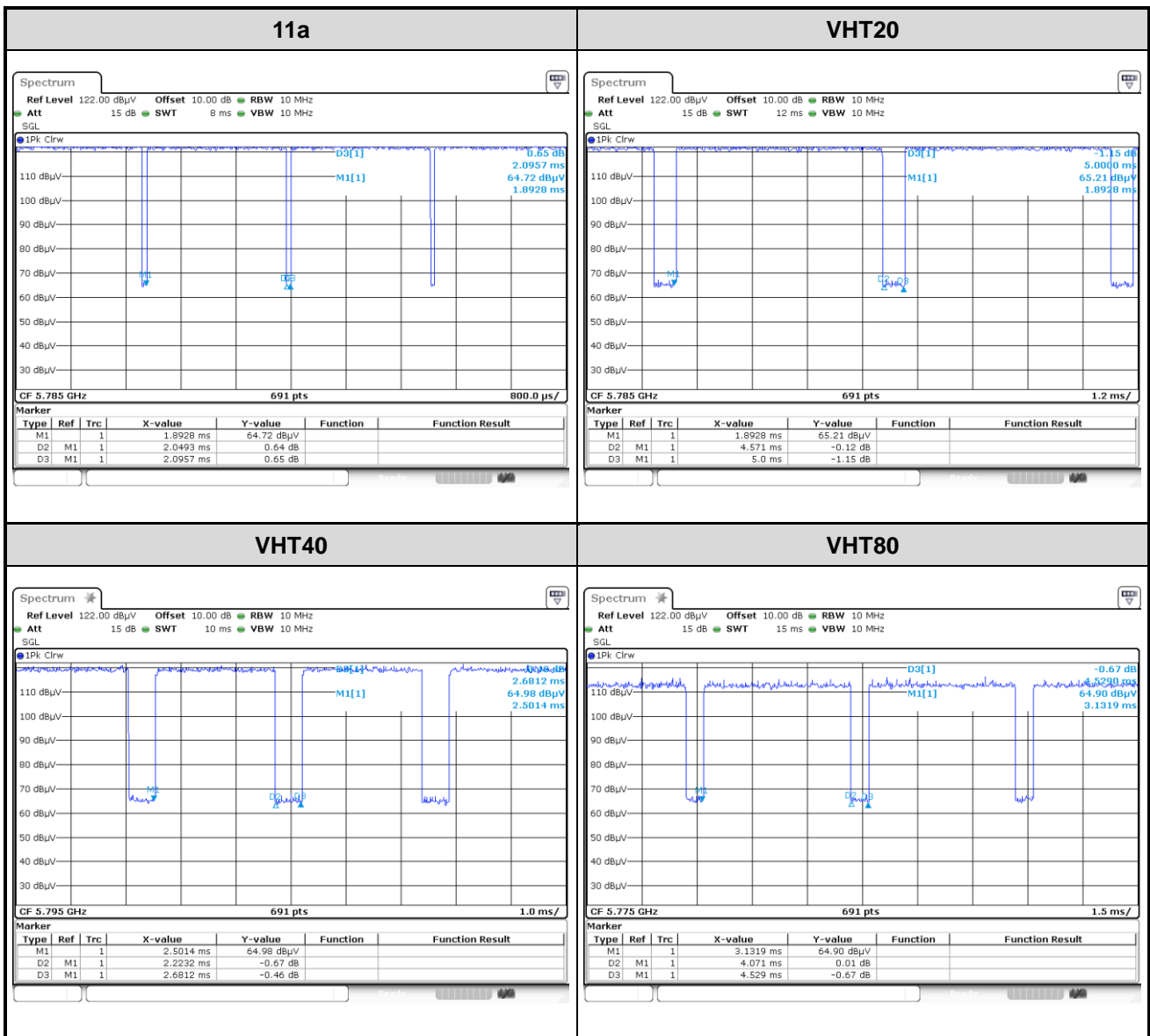
1.1.8 Test Tool and Duty Cycle

For Frequency band 5150-5250 MHz			
Test Tool	QRCT, Version: 3.0.144.0		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	98.34%	0.07
	VHT20	98.97%	0.05
	VHT40	98.14%	0.08
	VHT80	92.99%	0.32

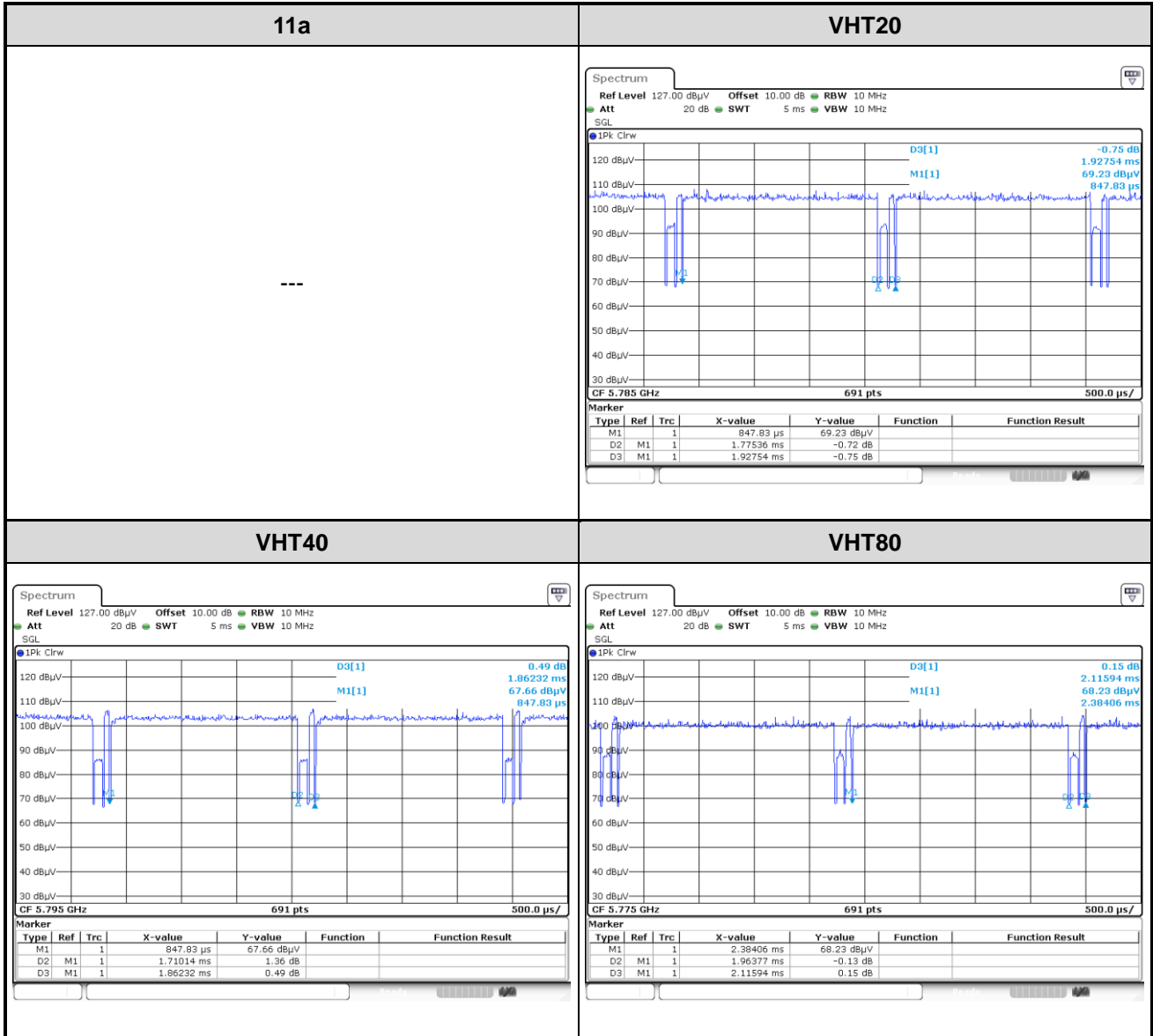


For Frequency band 5725~5850 MHz					
Test Tool	Non-Beamforming: QRCT, Version: 3.0.144.0 Beamforming: Telnet				
Duty Cycle and Duty Factor	Mode	Non-beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11a	98.33%	0.07	---	---
	VHT20	99.20%	0.04	92.10%	0.36
	VHT40	98.14%	0.08	91.83%	0.37
VHT80	95.71%	0.19	92.81%	0.32	

Non-beamforming mode



Beamforming mode



1.1.9 Power Setting

For Frequency band 5150-5250 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
		Non-Beamforming
11a	5180	19.50
11a	5200	23.50
11a	5240	23.50
HT20	5180	19.50
HT20	5200	23.50
HT20	5240	24.00
HT40	5190	19.00
HT40	5230	22.00
VHT20	5180	19.50
VHT20	5200	23.50
VHT20	5240	24.00
VHT40	5190	19.00
VHT40	5230	22.00
VHT80	5210	18.50

For Frequency band 5725~5850 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5745	23.50	---
11a	5785	23.50	---
11a	5825	23.50	---
HT20	5745	23.50	29.00
HT20	5785	23.50	29.00
HT20	5825	23.50	29.00
HT40	5755	23.50	29.00
HT40	5795	23.50	29.00
VHT20	5745	23.50	29.00
VHT20	5785	23.50	29.00
VHT20	5825	23.50	29.00
VHT40	5755	23.50	29.00
VHT40	5795	23.50	29.00
VHT80	5775	21.00	27.00

1.2 Local Support Equipment List

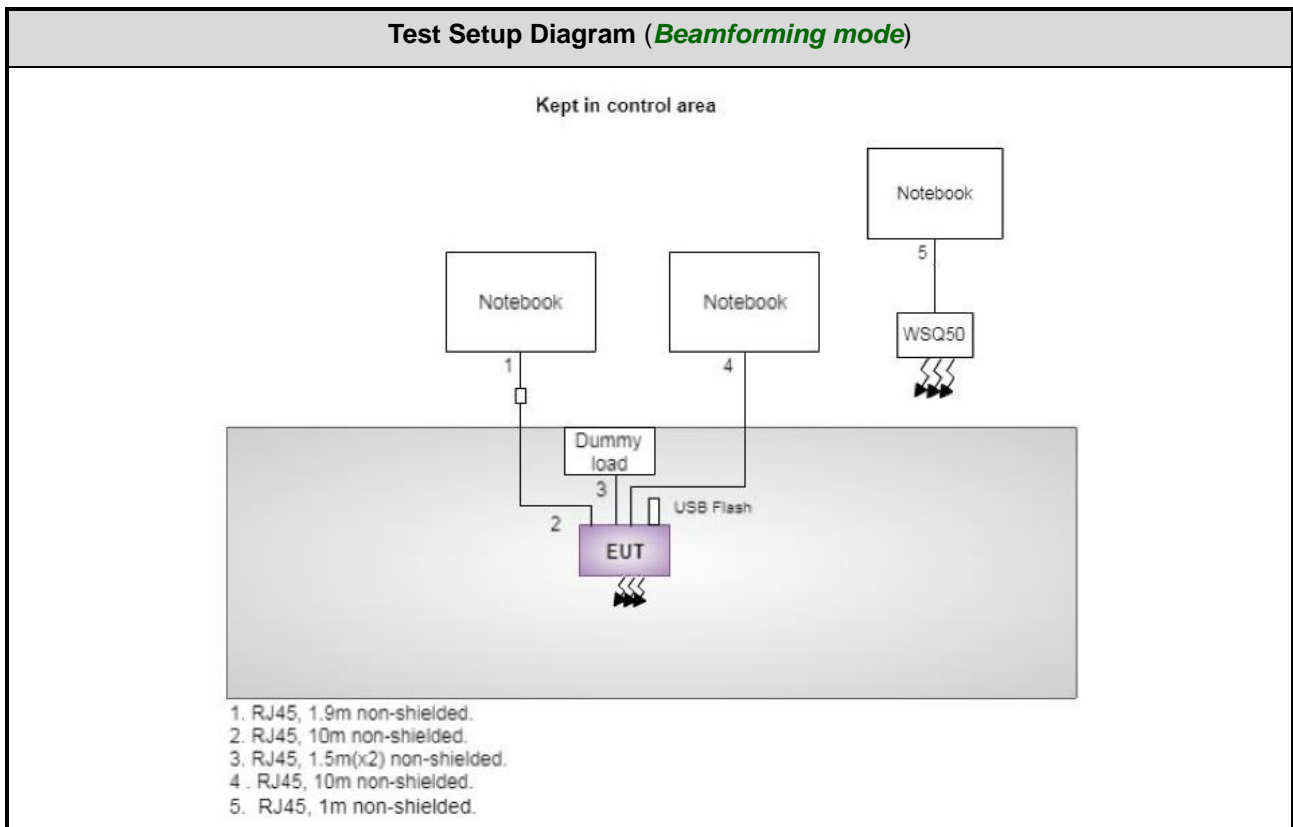
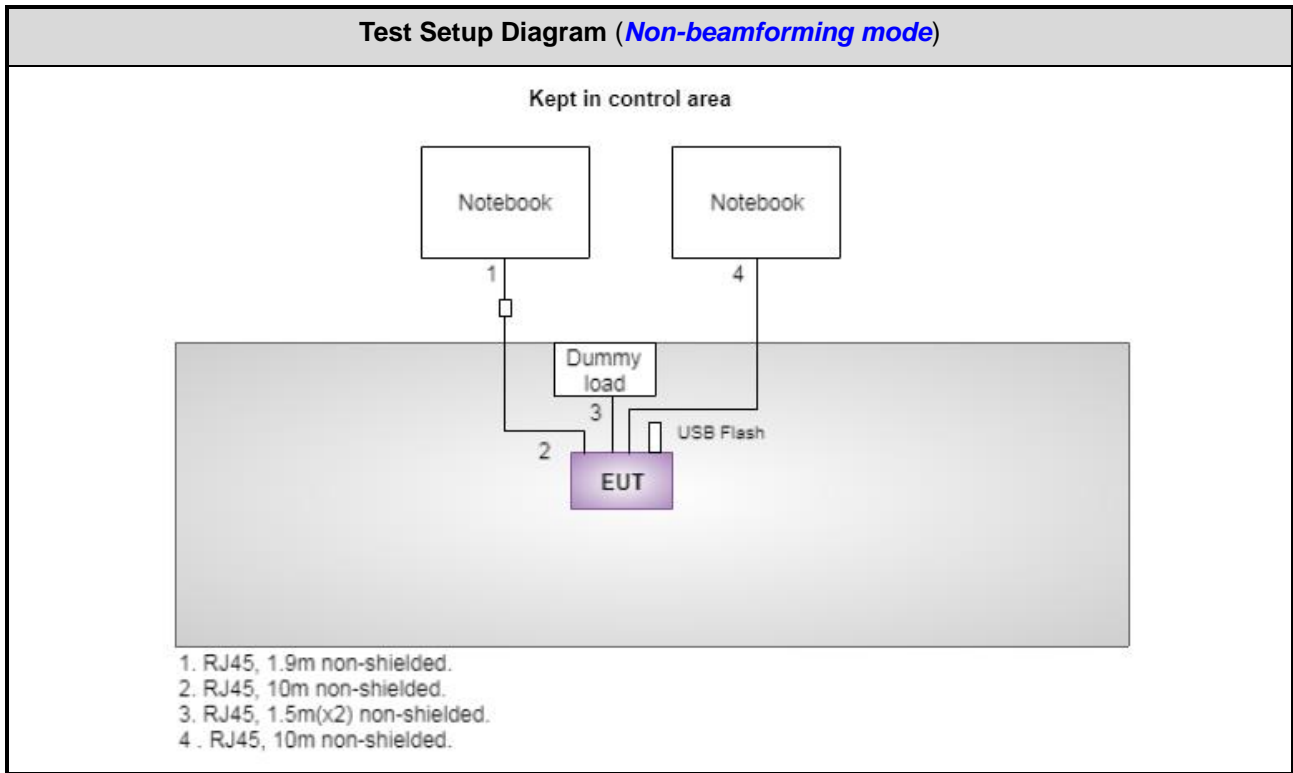
Non-beamforming mode

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6430	DoC	RJ45, 10m non-shielded.
2	Notebook	DELL	Latitude E5420	DoC	RJ45, 1.9m non-shielded.
3	USB Flash	Kingston	DTSE9	---	---
4	Dummy Load	---	---	---	RJ45, 1m(x2) non-shielded.

Beamforming mode

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6430	DoC	RJ45, 10m non-shielded.
2	Notebook	DELL	Latitude E5420	DoC	RJ45, 1.9m non-shielded.
3	Notebook	DELL	Latitude E5420	DoC	RJ45, 1m non-shielded.
3	USB Flash	Kingston	DTSE9	---	---
4	Dummy Load	---	---	---	RJ45, 1m(x2) non-shielded.
5	Multy X AC3000 Tri-Band WiFi System	ZYXEL	WSQ50	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 31, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	Agilent	N9038A	MY53290044	Sep. 26, 2017	Sep. 25, 2018
LISN	R&S	ENV216	101579	Feb. 13, 2018	Feb. 12, 2019
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	50821	Dec. 18, 2017	Dec. 17, 2018
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Mar. 07 ~ Mar. 17, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2017	Dec. 03, 2018
Receiver	R&S	ESR3	101658	Nov. 20, 2017	Nov. 19, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 25, 2017	Jul. 24, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 20, 2017	Dec. 19, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 23, 2017	Nov. 22, 2018
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2017	Nov. 12, 2018
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 07, 2017	Dec. 06, 2018
Preamplifier	EMC	EMC02325	980225	Jul. 28, 2017	Jul. 27, 2018
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2017	Oct. 05, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 22, 2017	Aug. 21, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 07, 2017	Dec. 06, 2018
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 07, 2017	Dec. 06, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 07, 2017	Dec. 06, 2018
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 07, 2017	Dec. 06, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Aug. 11 ~ Aug. 22, 2017				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Mar. 15, 2017	Mar. 14, 2018
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 21, 2016	Nov. 20, 2017
Power Meter	Anritsu	ML2495A	1241002	Oct. 06, 2016	Oct. 05, 2017
Power Sensor	Anritsu	MA2411B	1207366	Oct. 06, 2016	Oct. 05, 2017
AC POWER SOURCE	APC	AFC-500W	F312060012	Oct. 28, 2016	Oct. 27, 2017
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Apr. 30 ~ May 02, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 16, 2018	Apr. 15, 2019
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 27, 2017	Nov. 26, 2018
Power Meter	Anritsu	ML2495A	1241002	Oct. 16, 2017	Oct. 15, 2018
Power Sensor	Anritsu	MA2411B	1207366	Oct. 16, 2017	Oct. 15, 2018
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 01, 2017	Nov. 30, 2018
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.134 Hz
Conducted power	±0.808 dB
Frequency error	±34.134 Hz
Power density	±0.463 dB
Conducted emission	±2.670 dB
AC conducted emission	±2.90 dB
Radiated emission ≤ 1GHz	±3.66 dB
Radiated emission > 1GHz	±5.63 dB
Time	±0.1%
Temperature	±0.6 °C

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	24°C / 57%	Alex Tsai
Radiated Emissions	03CH01-WS	24-26°C / 62%	Vincent Yeh Roger Lu
RF Conducted	TH01-WS	22°C / 62% 23°C / 65%	Felix Sung Brad Wu

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Non-beamforming mode

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT20	5240	MCS 0	---
Radiated Emissions ≤1GHz	VHT20	5240	MCS 0	---
RF Output Power	11a	5180 / 5200 / 5240	6 Mbps	---
	HT20	5180 / 5200 / 5240	MCS 0	
	HT40	5190 / 5230	MCS 0	
	VHT20	5180 / 5200 / 5240	MCS 0	
	VHT40	5190 / 5230	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	VHT80	5210	MCS 0	---
	11a	5180 / 5200 / 5240	6 Mbps	
	VHT20	5180 / 5200 / 5240	MCS 0	
	VHT40	5190 / 5230	MCS 0	
	VHT80	5210	MCS 0	
Frequency Stability	Un-modulation	5200	---	---

Note:

1. Two adapters (WA-36A12FU and WA-36A12R) had been covered during the pretest, and found that **WA-36A12FU adapter** was the worst case and was selected for final test.
2. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.

For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	11a	5785	6 Mbps	---
Radiated Emissions ≤ 1 GHz	11a	5785	6 Mbps	---
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	---
	HT20	5745 / 5785 / 5825	MCS 0	
	HT40	5755 / 5795	MCS 0	
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
VHT80	5775	MCS 0		
Radiated Emissions > 1 GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	---
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
VHT80	5775	MCS 0		
Frequency Stability	Un-modulation	5785	---	---

Note:

- Two adapters (WA-36A12FU and WA-36A12R) had been covered during the pretest, and found that **WA-36A12FU adapter** was the worst case and was selected for final test.
- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.

Beamforming mode

For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT20	5785	MCS 0	---
Radiated Emissions ≤ 1 GHz	VHT20	5785	MCS 0	---
RF Output Power	VHT20	5745 / 5785 / 5825	MCS 0	---
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions > 1 GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	VHT20	5745 / 5785 / 5825	MCS 0	---
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	

Note:

- Two adapters (WA-36A12FU and WA-36A12R) had been covered during the pretest, and found that **WA-36A12FU adapter** was the worst case and was selected for final test.
- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

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

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

3.1.2 Test Procedures

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

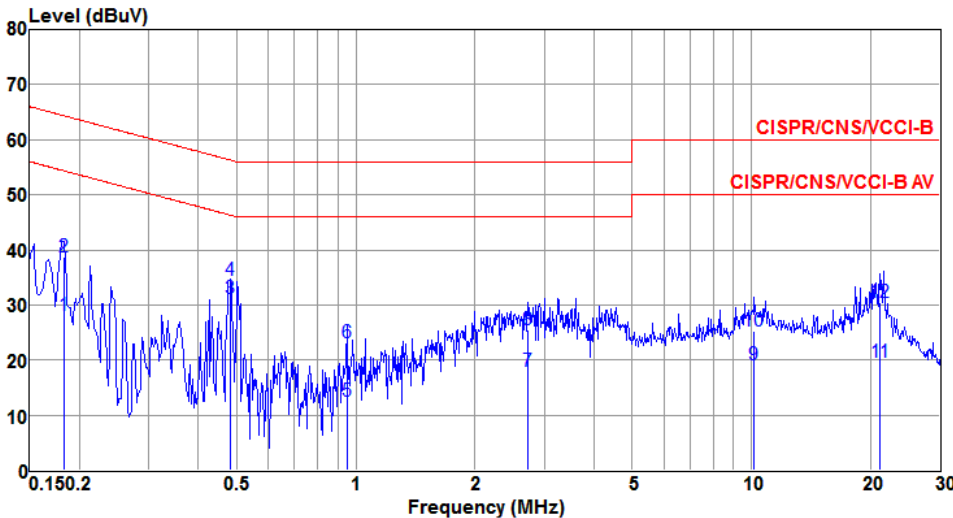
3.1.3 Test Setup



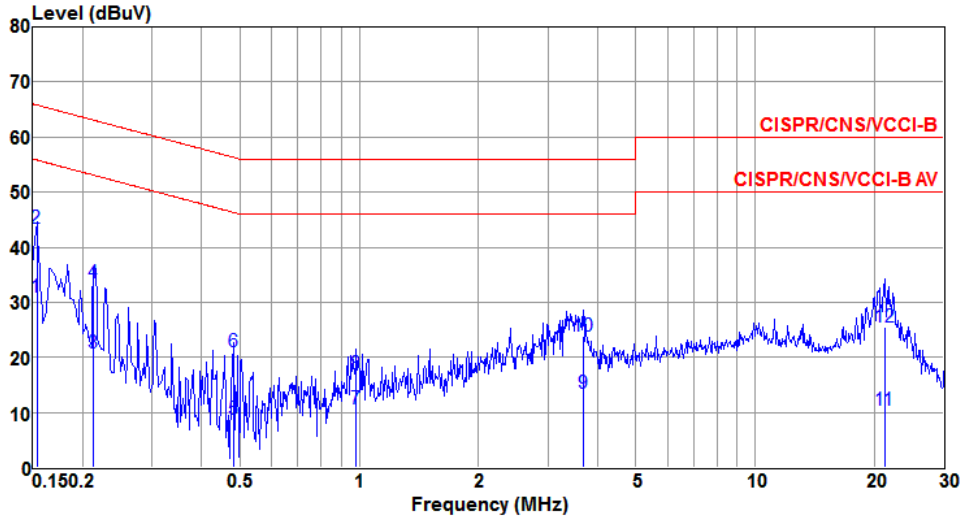
- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Non-beamforming mode

Modulation	VHT20	Test Freq. (MHz)	5240																																																																																																																					
Power Phase	Line																																																																																																																							
																																																																																																																								
<table border="1"> <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>0.183</td><td>28.03</td><td>54.33</td><td>-26.30</td><td>18.28</td><td>9.73</td><td>0.02</td><td>Average</td></tr> <tr><td>2</td><td>0.183</td><td>38.67</td><td>64.33</td><td>-25.66</td><td>28.92</td><td>9.73</td><td>0.02</td><td>QP</td></tr> <tr style="border: 2px solid black;"><td>3@</td><td>0.481</td><td>31.13</td><td>46.32</td><td>-15.19</td><td>21.38</td><td>9.73</td><td>0.02</td><td>Average</td></tr> <tr><td>4</td><td>0.481</td><td>34.38</td><td>56.32</td><td>-21.94</td><td>24.63</td><td>9.73</td><td>0.02</td><td>QP</td></tr> <tr><td>5</td><td>0.948</td><td>12.41</td><td>46.00</td><td>-33.59</td><td>2.65</td><td>9.73</td><td>0.03</td><td>Average</td></tr> <tr><td>6</td><td>0.948</td><td>23.10</td><td>56.00</td><td>-32.90</td><td>13.34</td><td>9.73</td><td>0.03</td><td>QP</td></tr> <tr><td>7</td><td>2.721</td><td>18.02</td><td>46.00</td><td>-27.98</td><td>8.12</td><td>9.75</td><td>0.15</td><td>Average</td></tr> <tr><td>8</td><td>2.721</td><td>25.38</td><td>56.00</td><td>-30.62</td><td>15.48</td><td>9.75</td><td>0.15</td><td>QP</td></tr> <tr><td>9</td><td>10.179</td><td>19.06</td><td>50.00</td><td>-30.94</td><td>8.96</td><td>9.78</td><td>0.32</td><td>Average</td></tr> <tr><td>10</td><td>10.179</td><td>25.21</td><td>60.00</td><td>-34.79</td><td>15.11</td><td>9.78</td><td>0.32</td><td>QP</td></tr> <tr><td>11</td><td>21.147</td><td>19.67</td><td>50.00</td><td>-30.33</td><td>9.62</td><td>9.70</td><td>0.35</td><td>Average</td></tr> <tr><td>12</td><td>21.147</td><td>30.54</td><td>60.00</td><td>-29.46</td><td>20.49</td><td>9.70</td><td>0.35</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	0.183	28.03	54.33	-26.30	18.28	9.73	0.02	Average	2	0.183	38.67	64.33	-25.66	28.92	9.73	0.02	QP	3@	0.481	31.13	46.32	-15.19	21.38	9.73	0.02	Average	4	0.481	34.38	56.32	-21.94	24.63	9.73	0.02	QP	5	0.948	12.41	46.00	-33.59	2.65	9.73	0.03	Average	6	0.948	23.10	56.00	-32.90	13.34	9.73	0.03	QP	7	2.721	18.02	46.00	-27.98	8.12	9.75	0.15	Average	8	2.721	25.38	56.00	-30.62	15.48	9.75	0.15	QP	9	10.179	19.06	50.00	-30.94	8.96	9.78	0.32	Average	10	10.179	25.21	60.00	-34.79	15.11	9.78	0.32	QP	11	21.147	19.67	50.00	-30.33	9.62	9.70	0.35	Average	12	21.147	30.54	60.00	-29.46	20.49	9.70	0.35	QP
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark																																																																																																																
1	0.183	28.03	54.33	-26.30	18.28	9.73	0.02	Average																																																																																																																
2	0.183	38.67	64.33	-25.66	28.92	9.73	0.02	QP																																																																																																																
3@	0.481	31.13	46.32	-15.19	21.38	9.73	0.02	Average																																																																																																																
4	0.481	34.38	56.32	-21.94	24.63	9.73	0.02	QP																																																																																																																
5	0.948	12.41	46.00	-33.59	2.65	9.73	0.03	Average																																																																																																																
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<p>Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB). Note 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).</p>																																																																																																																								

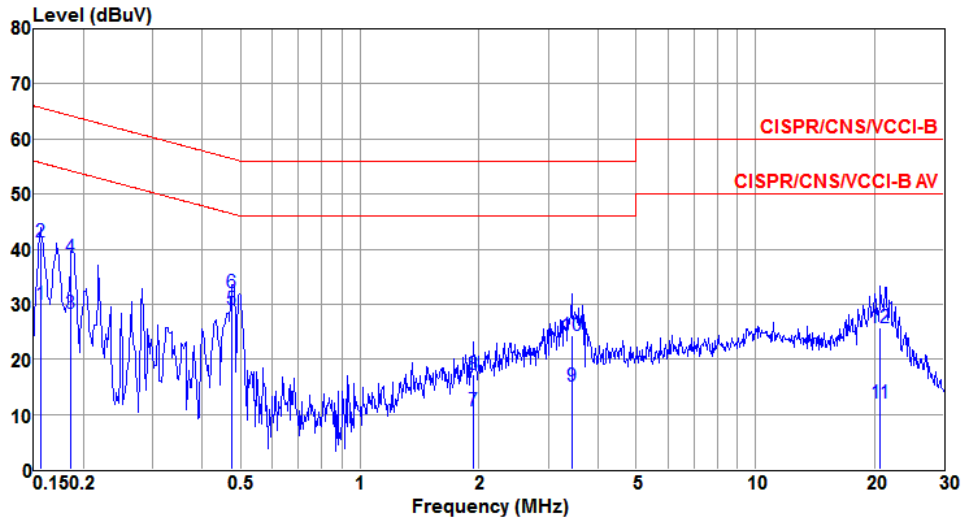
Modulation	VHT20	Test Freq. (MHz)	5240
Power Phase	Neutral		



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1	0.153	30.87	55.82	-24.95	21.18	9.68	0.01	Average
2@	0.153	43.49	65.82	-22.33	33.80	9.68	0.01	QP
3	0.213	20.82	53.10	-32.28	11.12	9.67	0.03	Average
4	0.213	33.63	63.10	-29.47	23.93	9.67	0.03	QP
5	0.481	8.75	46.32	-37.57	-0.94	9.67	0.02	Average
6	0.481	20.93	56.32	-35.39	11.24	9.67	0.02	QP
7	0.984	10.73	46.00	-35.27	1.03	9.67	0.03	Average
8	0.984	16.89	56.00	-39.11	7.19	9.67	0.03	QP
9	3.681	13.51	46.00	-32.49	3.62	9.69	0.20	Average
10	3.681	23.83	56.00	-32.17	13.94	9.69	0.20	QP
11	21.260	10.51	50.00	-39.49	0.33	9.83	0.35	Average
12	21.260	25.40	60.00	-34.60	15.22	9.83	0.35	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

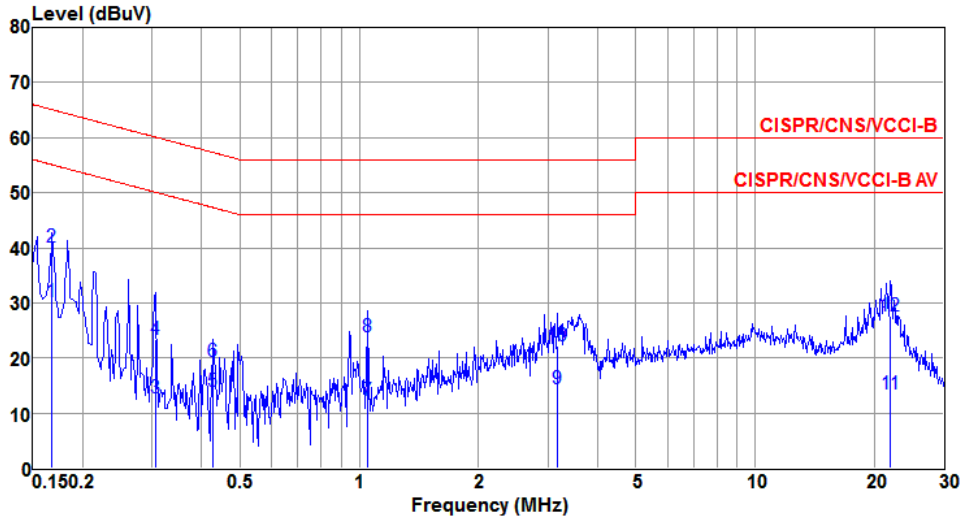
Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.156	29.90	55.69	-25.79	20.16	9.73	0.01	Average
2	0.156	41.39	65.69	-24.30	31.65	9.73	0.01	QP
3	0.186	28.29	54.20	-25.91	18.53	9.73	0.03	Average
4	0.186	38.39	64.20	-25.81	28.63	9.73	0.03	QP
5	0.476	29.04	46.41	-17.37	19.29	9.73	0.02	Average
6	0.476	32.13	56.41	-24.28	22.38	9.73	0.02	QP
7	1.939	10.66	46.00	-35.34	0.81	9.75	0.10	Average
8	1.939	17.32	56.00	-38.68	7.47	9.75	0.10	QP
9	3.436	15.20	46.00	-30.80	5.26	9.75	0.19	Average
10	3.436	24.43	56.00	-31.57	14.49	9.75	0.19	QP
11	20.704	12.10	50.00	-37.90	2.04	9.71	0.35	Average
12	20.704	25.81	60.00	-34.19	15.75	9.71	0.35	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

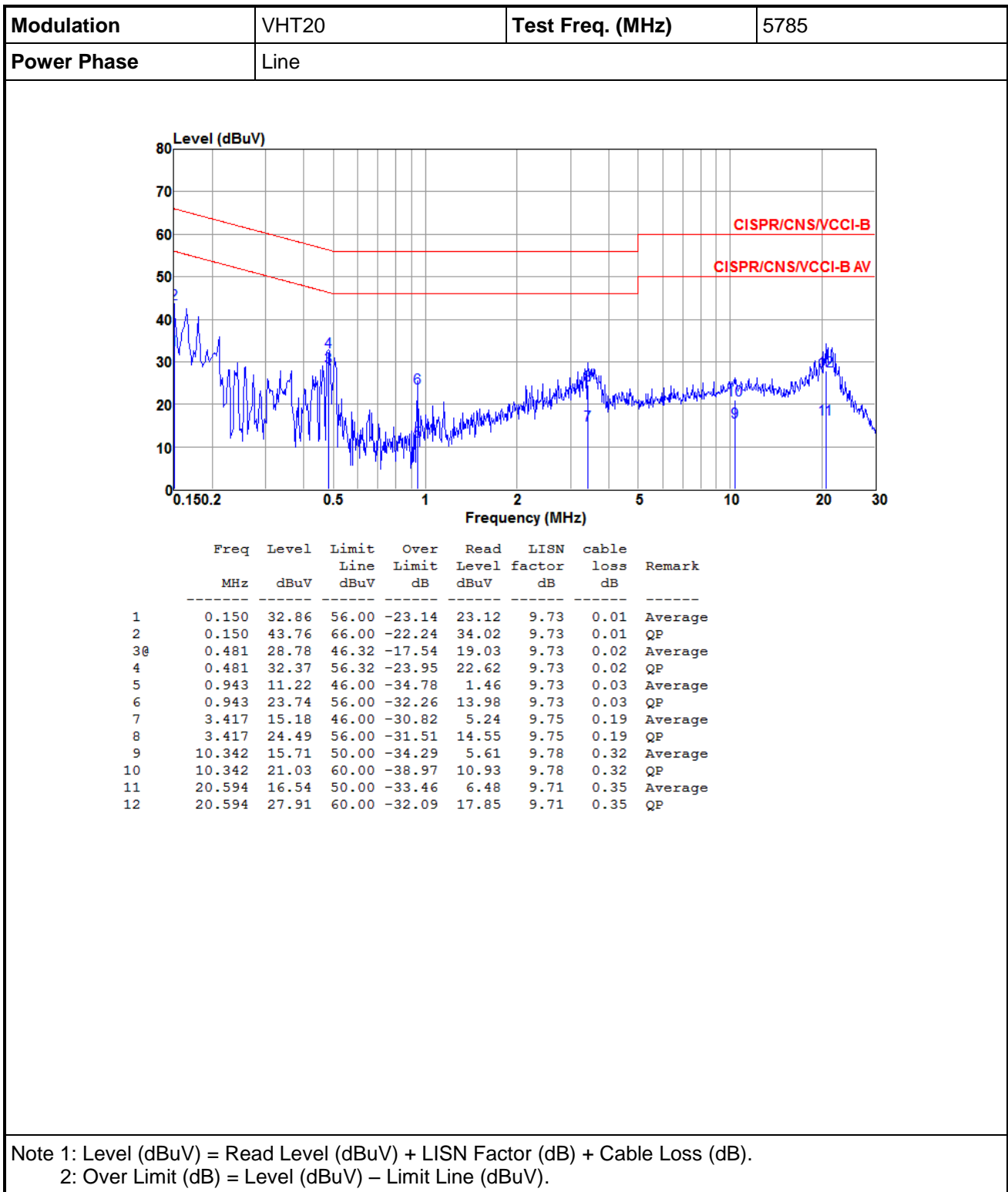
Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Neutral		



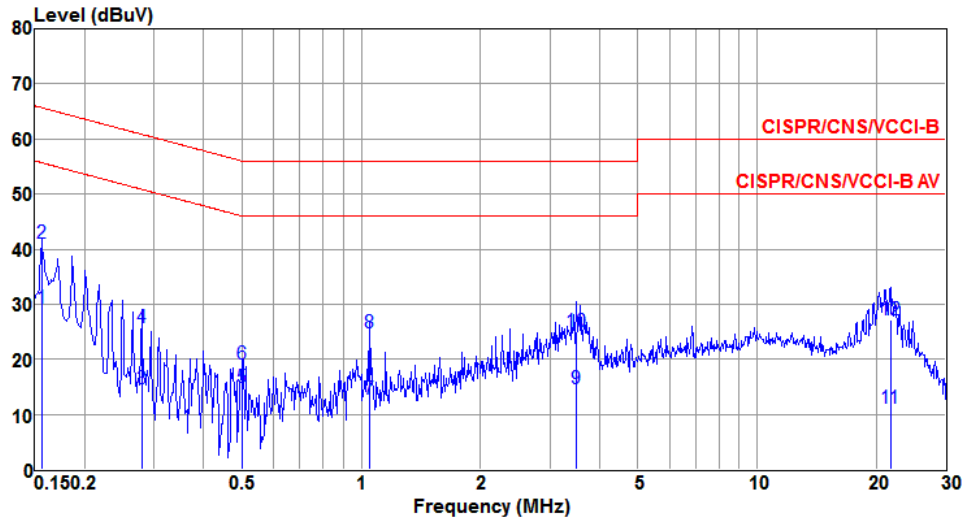
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
10	0.168	30.10	55.08	-24.98	20.40	9.68	0.02	Average
2	0.168	40.08	65.08	-25.00	30.38	9.68	0.02	QP
3	0.307	12.86	50.06	-37.20	3.17	9.67	0.02	Average
4	0.307	23.45	60.06	-36.61	13.76	9.67	0.02	QP
5	0.428	13.82	47.29	-33.47	4.13	9.67	0.02	Average
6	0.428	19.35	57.29	-37.94	9.66	9.67	0.02	QP
7	1.049	12.18	46.00	-33.82	2.48	9.67	0.03	Average
8	1.049	23.85	56.00	-32.15	14.15	9.67	0.03	QP
9	3.173	14.34	46.00	-31.66	4.47	9.69	0.18	Average
10	3.173	22.23	56.00	-33.77	12.36	9.69	0.18	QP
11	21.946	13.49	50.00	-36.51	3.30	9.83	0.36	Average
12	21.946	27.67	60.00	-32.33	17.48	9.83	0.36	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Beamforming mode



Modulation	VHT20	Test Freq. (MHz)	5785
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.156	29.36	55.69	-26.33	19.67	9.68	0.01	Average
2@	0.156	41.19	65.69	-24.50	31.50	9.68	0.01	QP
3	0.279	14.72	50.85	-36.13	5.02	9.67	0.03	Average
4	0.279	25.75	60.85	-35.10	16.05	9.67	0.03	QP
5	0.502	14.87	46.00	-31.13	5.18	9.67	0.02	Average
6	0.502	19.07	56.00	-36.93	9.38	9.67	0.02	QP
7	1.049	12.87	46.00	-33.13	3.17	9.67	0.03	Average
8	1.049	24.72	56.00	-31.28	15.02	9.67	0.03	QP
9	3.491	14.75	46.00	-31.25	4.86	9.69	0.20	Average
10	3.491	24.91	56.00	-31.09	15.02	9.69	0.20	QP
11	21.715	11.13	50.00	-38.87	0.94	9.83	0.36	Average
12	21.715	27.04	60.00	-32.96	16.85	9.83	0.36	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.

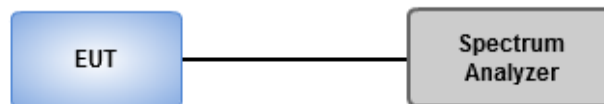
Occupied Bandwidth

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 RBW = 100kHz, VBW = 300kHz
2. Detector = Peak, Trace mode = max hold.
3. 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 frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

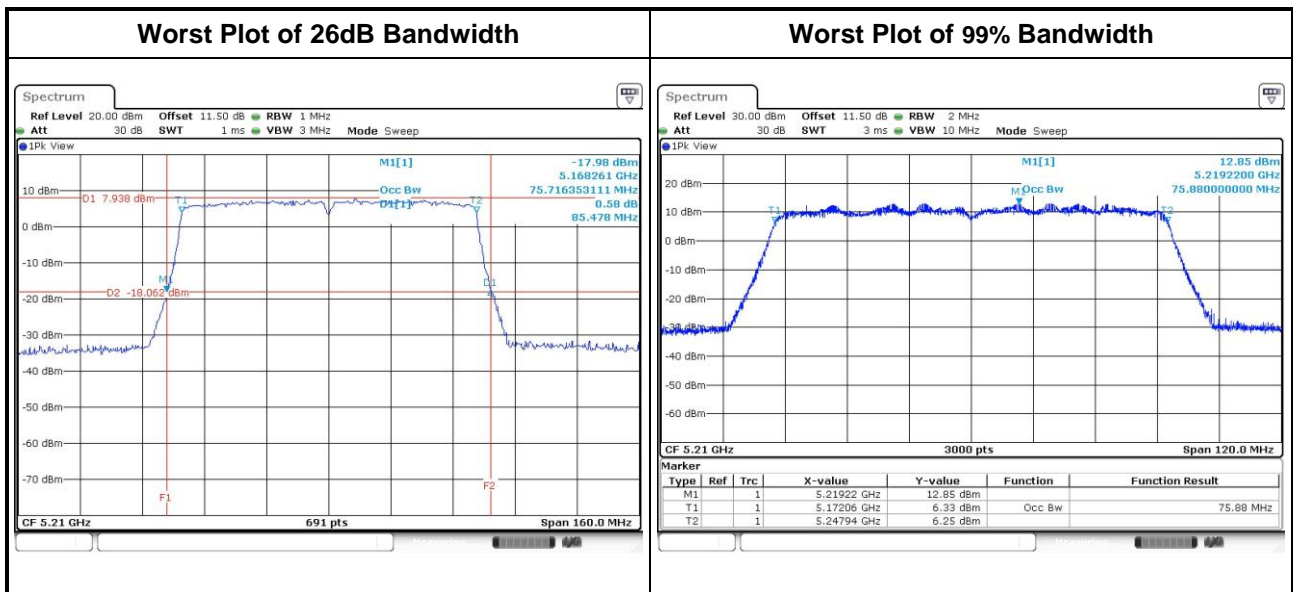
3.2.3 Test Setup



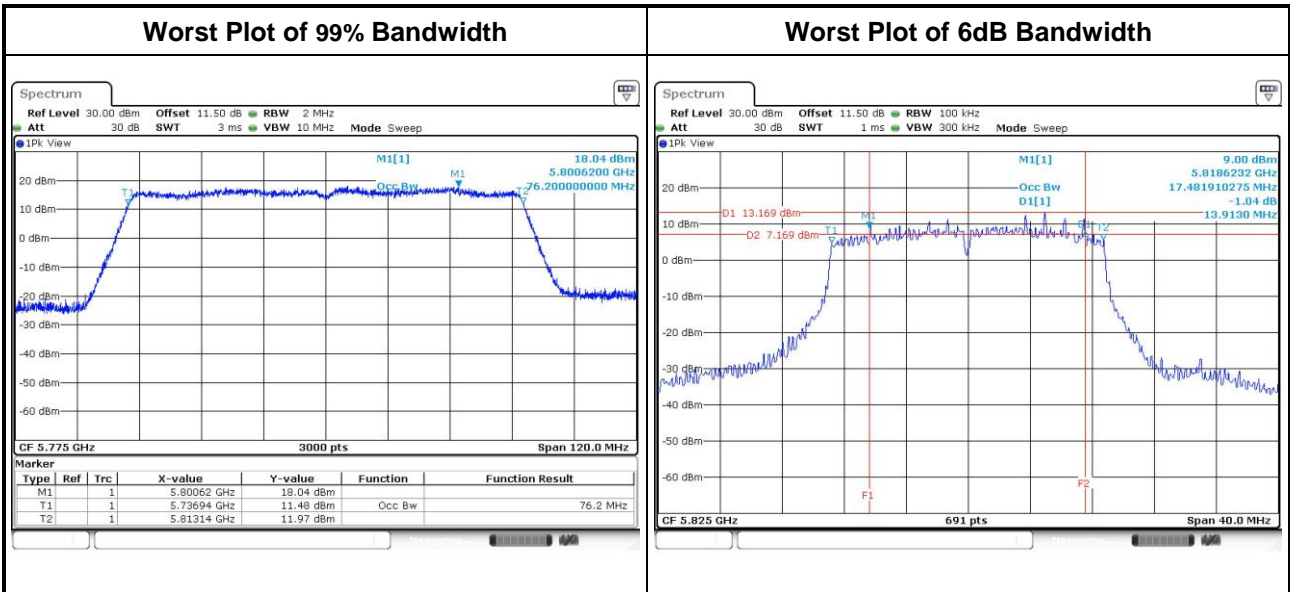
3.2.4 Test Result of Emission Bandwidth

Non-beamforming mode

For Frequency band 5150-5250 MHz										
Emission Bandwidth										
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
11a	2	5180	19.48	19.19	---	---	16.45	16.43	---	---
11a	2	5200	39.35	38.19	---	---	16.90	16.88	---	---
11a	2	5240	37.03	34.20	---	---	16.80	16.62	---	---
VHT20	2	5180	20.23	20.64	---	---	17.60	17.63	---	---
VHT20	2	5200	39.57	43.48	---	---	17.91	18.24	---	---
VHT20	2	5240	36.59	35.36	---	---	17.82	17.78	---	---
VHT40	2	5190	40.46	40.46	---	---	35.98	35.98	---	---
VHT40	2	5230	58.12	55.94	---	---	36.18	36.18	---	---
VHT80	2	5210	85.48	83.25	---	---	75.88	75.72	---	---

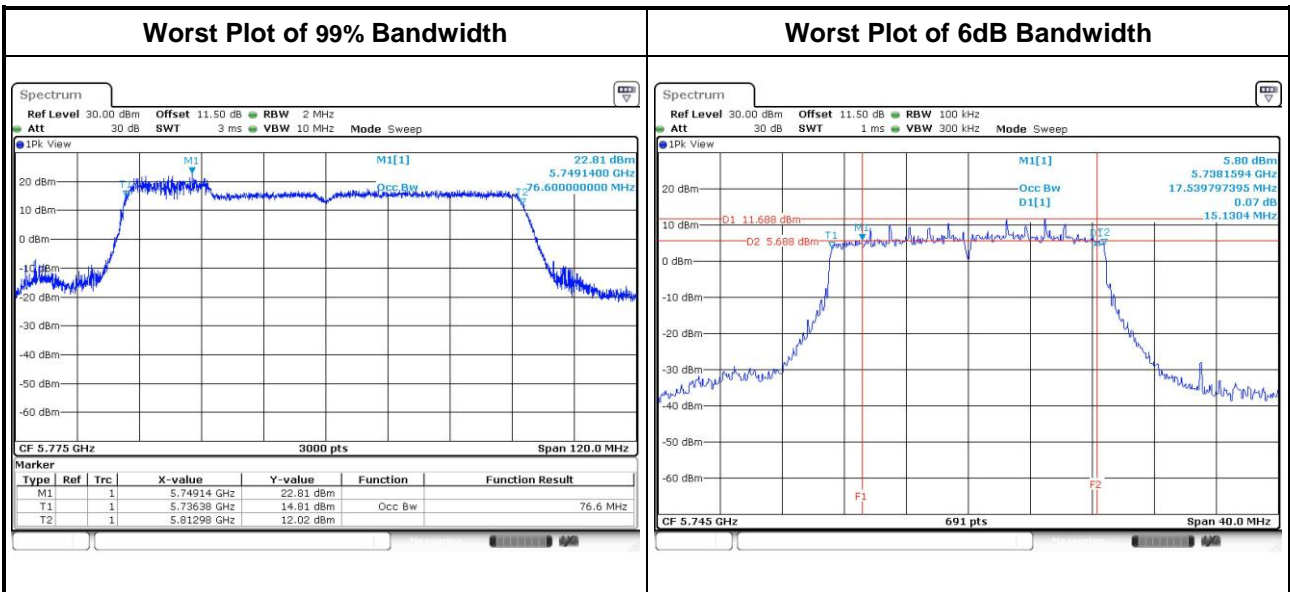


For Frequency band 5725-5850 MHz											
Emission Bandwidth											
Mode	N _{TX}	Freq. (MHz)	OBW Bandwidth (MHz)				6dB Bandwidth (MHz)				6dB BW Limit (MHz)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	4	5745	16.57	16.53	16.43	16.50	15.94	16.35	14.43	16.35	0.5
11a	4	5785	16.58	16.55	16.40	16.51	15.94	16.35	15.01	16.29	0.5
11a	4	5825	16.56	16.48	16.37	16.52	16.35	15.94	15.07	15.94	0.5
VHT20	4	5745	17.65	17.67	17.59	17.68	17.16	17.57	15.30	16.93	0.5
VHT20	4	5785	17.69	17.67	17.57	17.69	17.16	16.81	15.71	16.93	0.5
VHT20	4	5825	17.70	17.66	17.53	17.66	17.57	17.57	13.91	16.29	0.5
VHT40	4	5755	36.02	35.92	36.08	36.12	35.13	35.13	35.13	33.86	0.5
VHT40	4	5795	36.00	35.90	36.14	35.94	35.13	35.13	35.13	33.86	0.5
VHT80	4	5775	76.16	76.08	76.20	75.96	75.83	75.83	76.29	76.06	0.5



Beamforming mode

For Frequency band 5725-5850 MHz											
Emission Bandwidth											
Mode	N _{TX}	Freq. (MHz)	OBW Bandwidth (MHz)				6dB Bandwidth (MHz)				6dB BW Limit (MHz)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
VHT20	4	5745	17.65	17.72	17.63	17.71	17.33	17.28	15.13	16.99	0.5
VHT20	4	5785	17.68	17.74	17.61	17.71	17.39	17.39	15.65	16.70	0.5
VHT20	4	5825	17.69	17.68	17.62	17.71	16.58	17.28	16.99	17.39	0.5
VHT40	4	5755	36.18	36.24	36.02	36.06	34.55	35.13	33.28	35.71	0.5
VHT40	4	5795	36.30	36.16	36.08	36.34	35.71	35.36	35.13	35.71	0.5
VHT80	4	5775	76.60	76.48	76.44	76.52	75.83	75.83	75.83	75.59	0.5



3.3 RF Output Power

3.3.1 Limit of RF Output Power

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

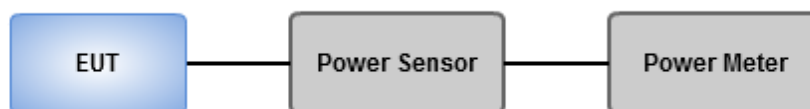
Frequency Band (MHz)	Limit
<input type="checkbox"/> 5250 ~ 5350	250mW or 11dBm+10 log B
<input type="checkbox"/> 5470 ~ 5725	250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5725 ~ 5850	1 W

Note: "B" is the 26dB emission 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.

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Non-beamforming mode

For Frequency band 5150-5250 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	2	5180	20.27	21.08	---	---	234.647	23.70	30.00
11a	2	5200	23.61	23.74	---	---	466.207	26.69	30.00
11a	2	5240	23.7	23.08	---	---	437.659	26.41	30.00
HT20	2	5180	20.26	21.04	---	---	233.227	23.68	30.00
HT20	2	5200	23.52	23.64	---	---	456.112	26.59	30.00
HT20	2	5240	24.12	23.41	---	---	477.507	26.79	30.00
HT40	2	5190	18.35	17.81	---	---	128.786	21.10	30.00
HT40	2	5230	22.52	22.18	---	---	343.845	25.36	30.00
VHT20	2	5180	20.19	21.17	---	---	235.390	23.72	30.00
VHT20	2	5200	23.66	23.77	---	---	470.506	26.73	30.00
VHT20	2	5240	24.23	23.56	---	---	491.836	26.92	30.00
VHT40	2	5190	18.48	17.92	---	---	132.413	21.22	30.00
VHT40	2	5230	22.64	22.30	---	---	353.478	25.48	30.00
VHT80	2	5210	17.47	16.47	---	---	100.208	20.01	30.00

For Frequency band 5725-5850 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	4	5745	24.28	23.48	23.09	23.86	937.685	29.72	30.00
11a	4	5785	24.32	23.46	23.36	23.94	956.728	29.81	30.00
11a	4	5825	24.12	23.23	23.26	23.62	910.584	29.59	30.00
HT20	4	5745	23.88	23.02	22.95	23.31	856.322	29.33	30.00
HT20	4	5785	24.16	23.18	23.09	23.71	907.253	29.58	30.00
HT20	4	5825	23.77	22.85	22.94	23.37	845.043	29.27	30.00
HT40	4	5755	24.03	23.15	22.94	23.84	898.359	29.53	30.00
HT40	4	5795	24.11	23.19	23.06	23.87	912.164	29.60	30.00
VHT20	4	5745	23.91	23.06	22.98	23.41	866.229	29.38	30.00
VHT20	4	5785	24.21	23.34	23.14	23.83	927.017	29.67	30.00
VHT20	4	5825	23.88	22.91	23.07	23.42	862.331	29.36	30.00
VHT40	4	5755	24.09	23.28	23.02	23.91	915.746	29.62	30.00
VHT40	4	5795	24.16	23.23	23.18	23.96	927.849	29.67	30.00
VHT80	4	5775	21.66	20.72	20.84	21.62	531.137	27.25	30.00

Beamforming mode

For Frequency band 5725-5850 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
HT20	4	5745	22.06	22.19	22.39	23.72	735.156	28.66	29.98
HT20	4	5785	22.35	22.41	22.59	23.77	765.755	28.84	29.98
HT20	4	5825	22.06	22.35	22.07	23.71	728.513	28.62	29.98
HT40	4	5755	22.35	22.32	22.24	23.84	751.996	28.76	29.98
HT40	4	5795	22.43	22.16	22.75	23.74	764.379	28.83	29.98
VHT20	4	5745	22.19	22.28	22.56	23.85	757.584	28.79	29.98
VHT20	4	5785	22.43	22.53	22.68	23.82	780.389	28.92	29.98
VHT20	4	5825	22.18	22.42	22.18	23.88	749.318	28.75	29.98
VHT40	4	5755	22.43	22.38	22.31	23.89	763.088	28.83	29.98
VHT40	4	5795	22.45	22.25	22.81	23.81	775.094	28.89	29.98
VHT80	4	5775	20.96	21.06	21.01	21.15	508.882	27.07	29.98

Note:

- Directional gain = $0 + 10 \cdot \log(4/1) = 6.02 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $30 \text{ dBm} - (6.02 \text{ dBi} - 6 \text{ dBi}) = 29.98 \text{ dBm}$.

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
<input type="checkbox"/>	Outdoor access point	17 dBm / MHz
<input checked="" type="checkbox"/>	Indoor access point	17 dBm / MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm / MHz
<input type="checkbox"/>	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
<input type="checkbox"/>	5250 ~ 5350	11 dBm / MHz
<input type="checkbox"/>	5470 ~ 5725	11 dBm / MHz
<input checked="" type="checkbox"/>	5725 ~ 5850	30 dBm /500 kHz

3.4.2 Test Procedures

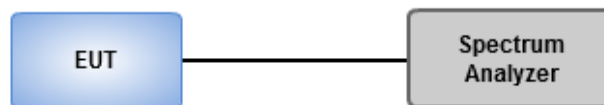
For 5150 ~ 5250 MHz

- Method SA-1 (Non- Beamforming: 802.11a/VHT20/VHT40)
 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.
- Method SA-2 Alternative (Non- Beamforming: VHT80)
 1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
 2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
 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

- Method SA-1 (Non- Beamforming: 802.11a/VHT20/VHT40)
 1. Set RBW = 500 kHz, VBW = 2 MHz, Sweep time = auto, Detector = RMS.
 2. Trace average 100 traces.
 3. Use the peak marker function to determine the maximum amplitude level.
- Method SA-2 Alternative (Non- Beamforming: VHT80 / Beamforming: all modes)
 1. Set RBW = 500 kHz, VBW = 2 MHz, Detector = RMS.
 2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
 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



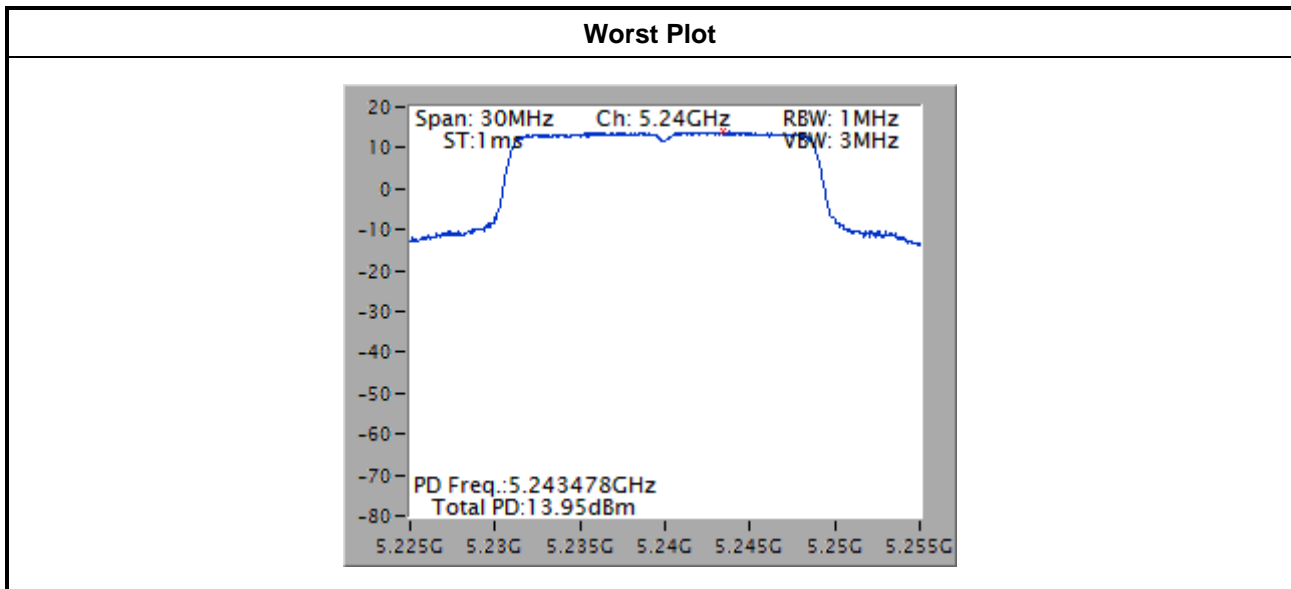
3.4.4 Test Result of Peak Power Spectral Density

Non-beamforming mode

For Frequency band 5150-5250 MHz						
Condition			Peak Power Spectral Density (dBm/MHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	2	5180	10.78	0.00	10.78	17
11a	2	5200	13.94	0.00	13.94	17
11a	2	5240	13.71	0.00	13.71	17
VHT20	2	5180	10.60	0.00	10.60	17
VHT20	2	5200	13.92	0.00	13.92	17
VHT20	2	5240	13.95	0.00	13.95	17
VHT40	2	5190	4.77	0.00	4.77	17
VHT40	2	5230	9.28	0.00	9.28	17
VHT80	2	5210	0.23	0.32	0.55	17

Note:

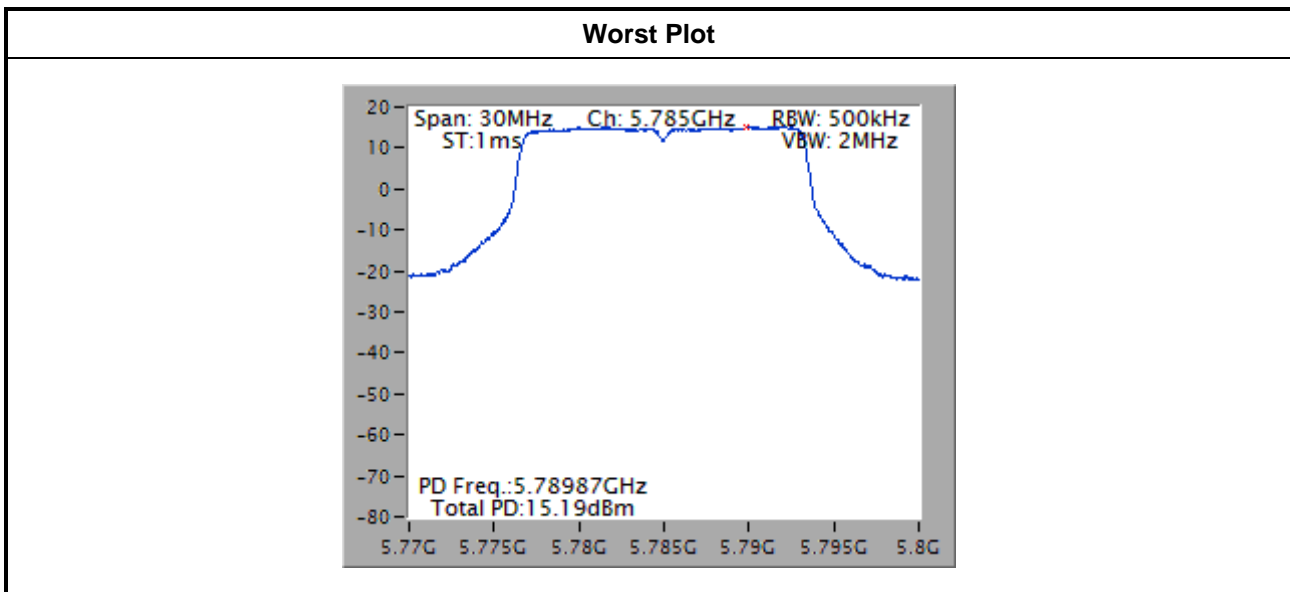
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.



For Frequency band 5725-5850 MHz						
Condition			Peak Power Spectral Density (dBm/500kHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/500kHz)	Duty Factor (dB)	PPSD with D.F (dBm/500kHz)	PPSD Limit (dBm/500kHz)
11a	4	5745	14.79	0.00	14.79	29.98
11a	4	5785	15.19	0.00	15.19	29.98
11a	4	5825	14.78	0.00	14.78	29.98
VHT20	4	5745	14.39	0.00	14.39	29.98
VHT20	4	5785	14.83	0.00	14.83	29.98
VHT20	4	5825	14.49	0.00	14.49	29.98
VHT40	4	5755	12.18	0.00	12.18	29.98
VHT40	4	5795	12.42	0.00	12.42	29.98
VHT80	4	5775	6.17	0.19	6.36	29.98

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $0+10 \cdot \log(4/1) = 6.02$ dBi
Limit shall be reduced to 30 dBm – (6.02 dBi – 6 dBi) = 29.98 dBm.

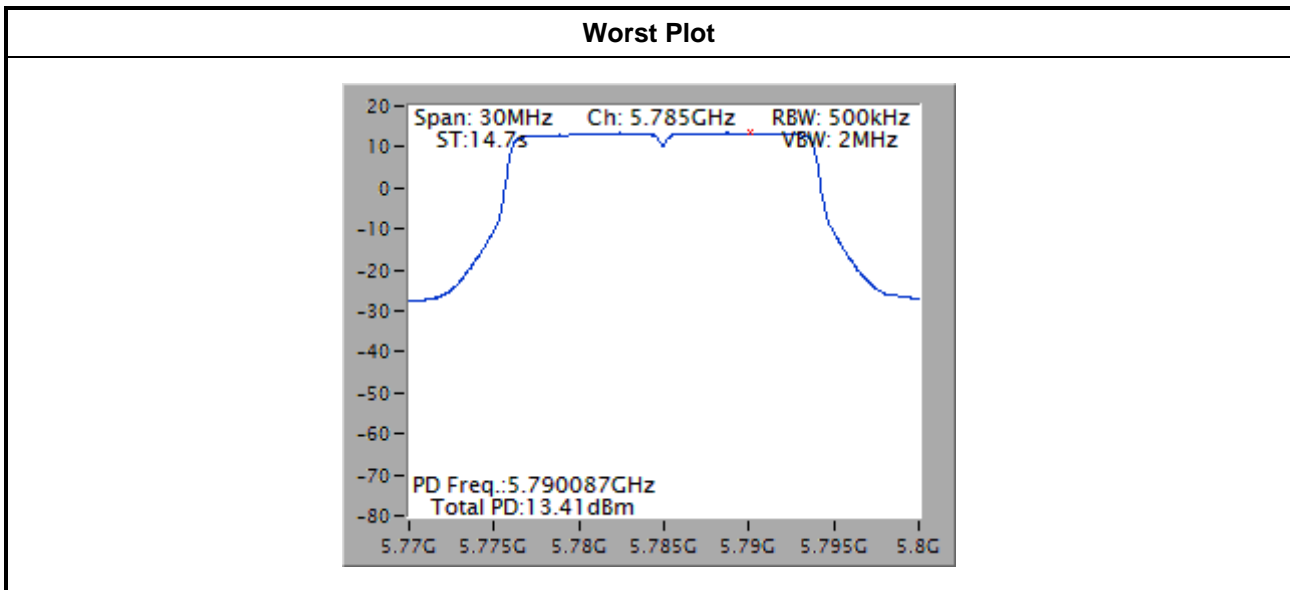


Beamforming mode

For Frequency band 5725-5850 MHz						
Condition			Peak Power Spectral Density (dBm/500kHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/500kHz)	Duty Factor (dB)	PPSD with D.F (dBm/500kHz)	PPSD Limit (dBm/500kHz)
VHT20	4	5745	13.28	0.36	13.64	29.98
VHT20	4	5785	13.41	0.36	13.77	29.98
VHT20	4	5825	13.03	0.36	13.39	29.98
VHT40	4	5755	10.27	0.37	10.64	29.98
VHT40	4	5795	10.39	0.37	10.76	29.98
VHT80	4	5775	6.08	0.32	6.40	29.98

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $0+10 \cdot \log(4/1) = 6.02$ dBi
Limit shall be reduced to 30 dBm – (6.02 dBi – 6 dBi) = 29.98 dBm.



Note: The plot without duty factor.

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]
5.725 - 5.850 GHz	<input checked="" type="checkbox"/> 15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
	<input type="checkbox"/> 15.407(b)(4)(ii) ,compliance with the emission limits in § 15.247(d) Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition,radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see § 15.205(c))

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

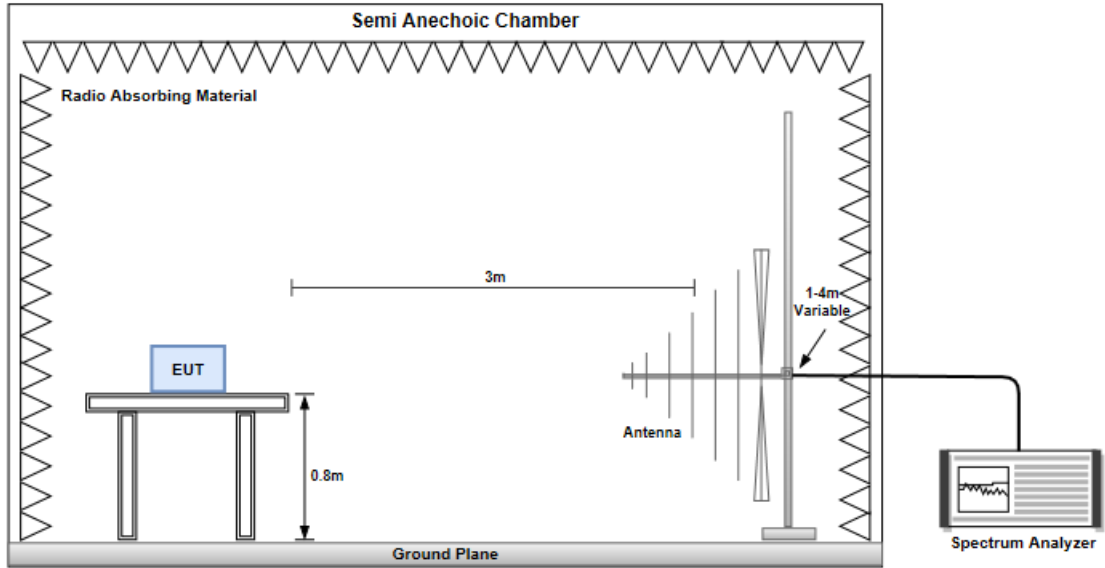
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

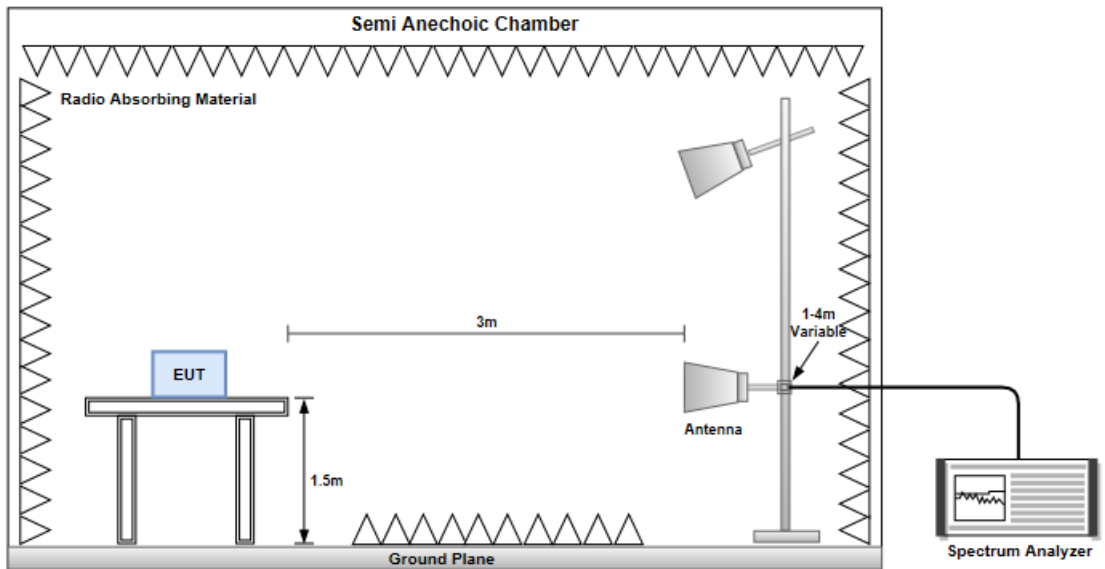
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



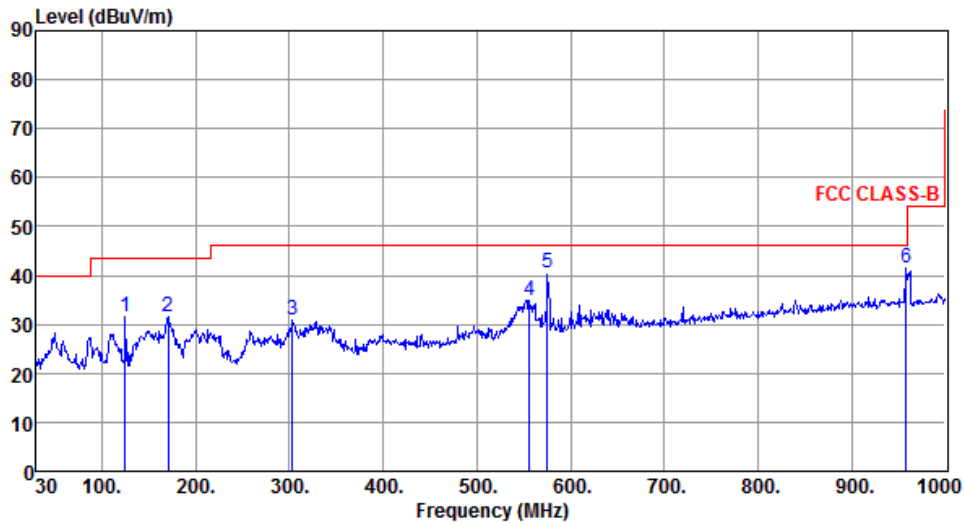
Radiated Emissions above 1 GHz



Non- beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	125.06	31.47	43.50	-12.03	41.54	-10.07	Peak	---	---
2	170.65	31.40	43.50	-12.10	40.04	-8.64	Peak	---	---
3	303.54	30.93	46.00	-15.07	38.48	-7.55	Peak	---	---
4	555.74	34.96	46.00	-11.04	36.58	-1.62	Peak	---	---
5	575.14	40.51	46.00	-5.49	41.71	-1.20	Peak	---	---
6	958.29	41.35	46.00	-4.65	36.36	4.99	Peak	---	---

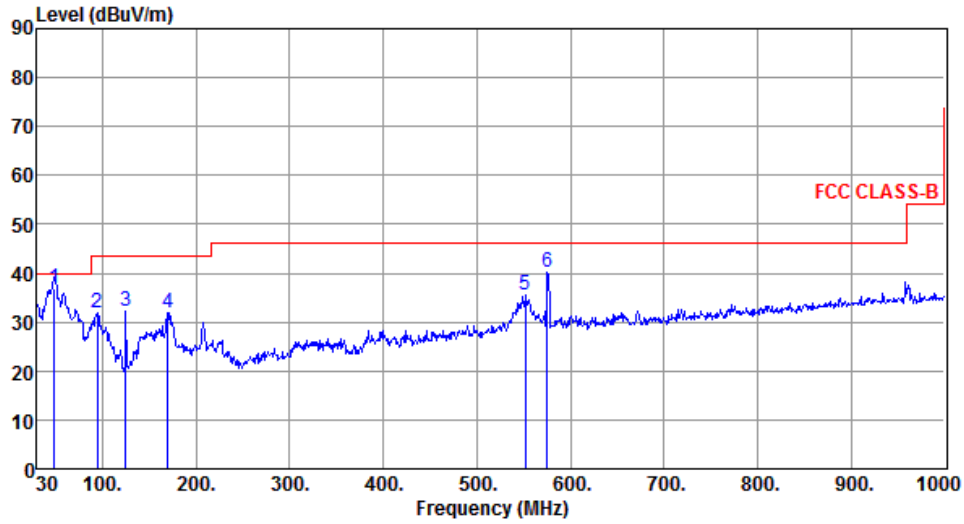
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	48.43	36.89	40.00	-3.11	44.59	-7.70	QP	100	204
2	94.02	31.79	43.50	-11.71	45.66	-13.87	Peak	---	---
3	125.06	32.09	43.50	-11.41	42.16	-10.07	Peak	---	---
4	169.68	31.80	43.50	-11.70	40.35	-8.55	Peak	---	---
5	551.86	35.40	46.00	-10.60	37.10	-1.70	Peak	---	---
6	575.14	40.10	46.00	-5.90	41.30	-1.20	Peak	---	---

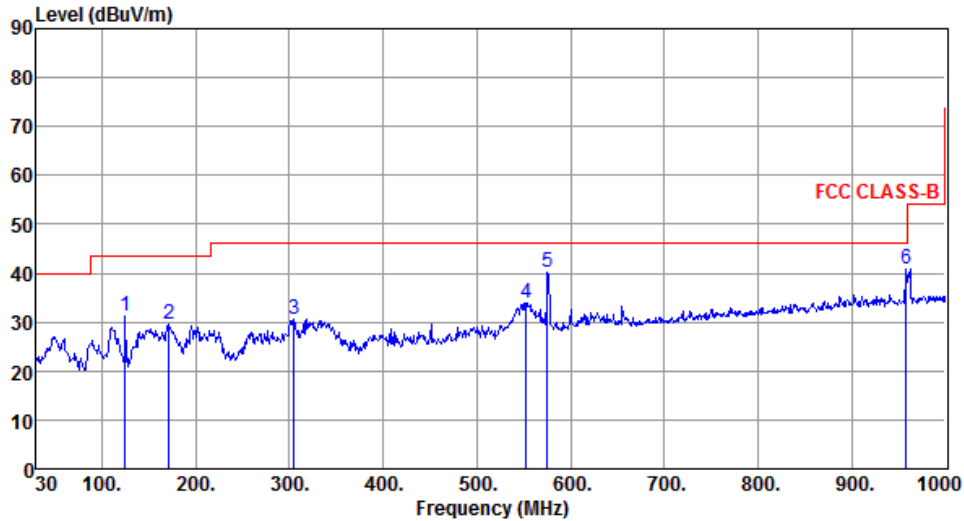
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	125.06	31.12	43.50	-12.38	41.19	-10.07	Peak	---	---
2	171.62	29.46	43.50	-14.04	38.20	-8.74	Peak	---	---
3	304.51	30.70	46.00	-15.30	38.23	-7.53	Peak	---	---
4	552.83	33.85	46.00	-12.15	35.52	-1.67	Peak	---	---
5	575.14	40.25	46.00	-5.75	41.45	-1.20	Peak	---	---
6	958.29	40.85	46.00	-5.15	35.86	4.99	Peak	---	---

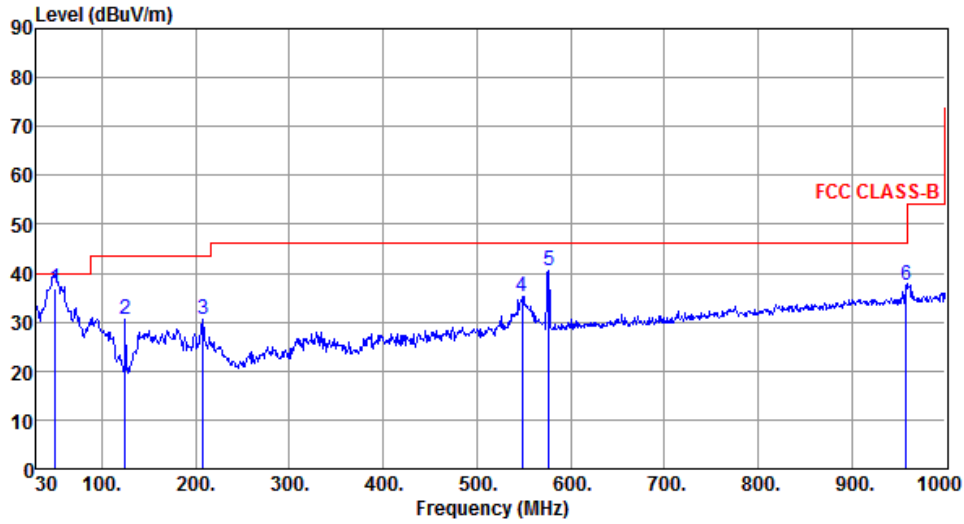
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	50.37	36.95	40.00	-3.05	44.64	-7.69	QP	100	206
2	125.06	30.60	43.50	-12.90	40.67	-10.07	Peak	---	---
3	207.51	30.67	43.50	-12.83	41.46	-10.79	Peak	---	---
4	547.98	35.28	46.00	-10.72	37.05	-1.77	Peak	---	---
5	577.08	40.44	46.00	-5.56	41.60	-1.16	Peak	---	---
6	958.29	37.52	46.00	-8.48	32.53	4.99	Peak	---	---

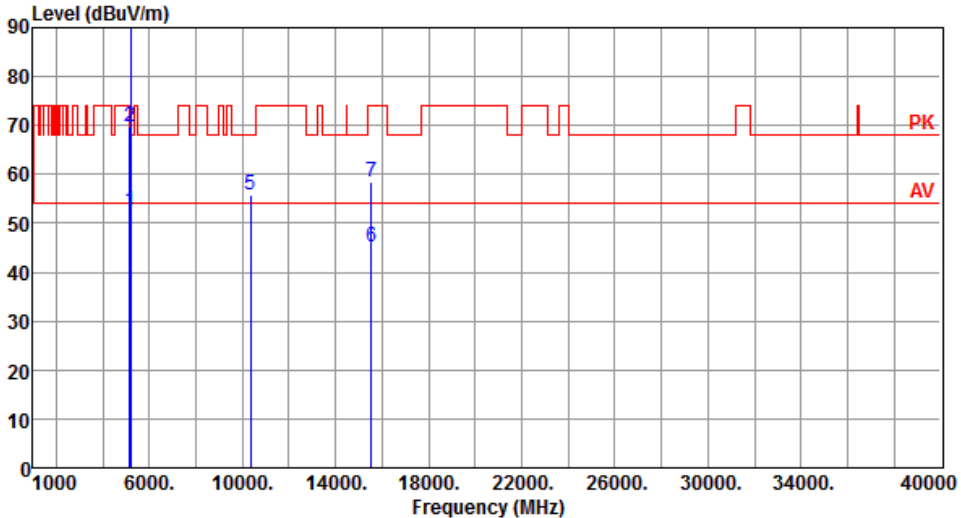
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

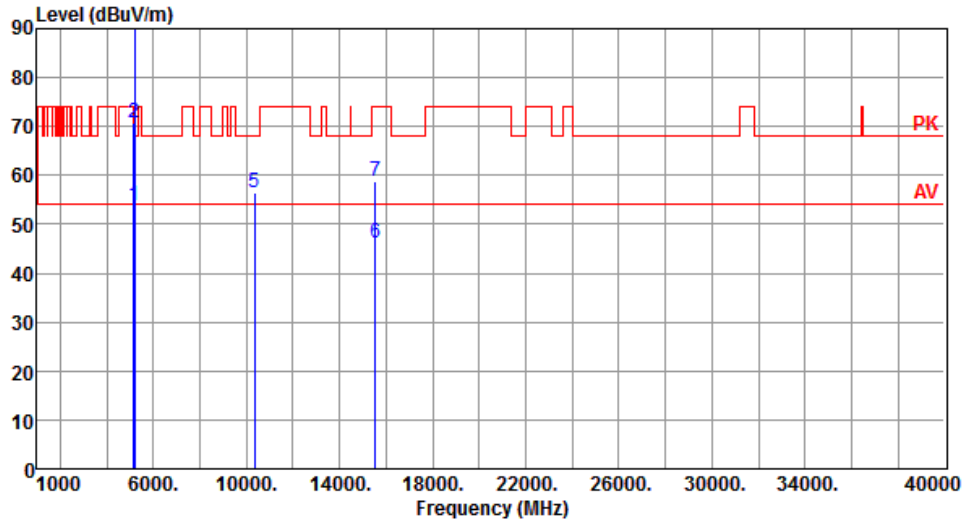
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

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

Modulation	11a	Test Freq. (MHz)	5180																																																																																						
Polarization	Horizontal																																																																																								
																																																																																									
	<table border="1"> <thead> <tr> <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>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> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>52.43</td> <td>54.00</td> <td>-1.57</td> <td>48.15</td> <td>4.28</td> <td>Average</td> <td>296</td> <td>295</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>69.84</td> <td>74.00</td> <td>-4.16</td> <td>65.56</td> <td>4.28</td> <td>Peak</td> <td>296</td> <td>295</td> </tr> <tr> <td>3 *</td> <td>5180.00</td> <td>103.50</td> <td></td> <td></td> <td>99.20</td> <td>4.30</td> <td>Average</td> <td>330</td> <td>295</td> </tr> <tr> <td>4 *</td> <td>5180.00</td> <td>114.21</td> <td></td> <td></td> <td>109.91</td> <td>4.30</td> <td>Peak</td> <td>330</td> <td>295</td> </tr> <tr> <td>5</td> <td>10360.00</td> <td>55.82</td> <td>68.20</td> <td>-12.38</td> <td>42.22</td> <td>13.60</td> <td>Peak</td> <td>100</td> <td>50</td> </tr> <tr> <td>6</td> <td>15540.00</td> <td>45.22</td> <td>54.00</td> <td>-8.78</td> <td>30.55</td> <td>14.67</td> <td>Average</td> <td>100</td> <td>30</td> </tr> <tr> <td>7</td> <td>15540.00</td> <td>58.45</td> <td>74.00</td> <td>-15.55</td> <td>43.78</td> <td>14.67</td> <td>Peak</td> <td>100</td> <td>30</td> </tr> </tbody> </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	5150.00	52.43	54.00	-1.57	48.15	4.28	Average	296	295	2	5150.00	69.84	74.00	-4.16	65.56	4.28	Peak	296	295	3 *	5180.00	103.50			99.20	4.30	Average	330	295	4 *	5180.00	114.21			109.91	4.30	Peak	330	295	5	10360.00	55.82	68.20	-12.38	42.22	13.60	Peak	100	50	6	15540.00	45.22	54.00	-8.78	30.55	14.67	Average	100	30	7	15540.00	58.45	74.00	-15.55	43.78	14.67	Peak	100	30
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																																	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																																																	
1	5150.00	52.43	54.00	-1.57	48.15	4.28	Average	296	295																																																																																
2	5150.00	69.84	74.00	-4.16	65.56	4.28	Peak	296	295																																																																																
3 *	5180.00	103.50			99.20	4.30	Average	330	295																																																																																
4 *	5180.00	114.21			109.91	4.30	Peak	330	295																																																																																
5	10360.00	55.82	68.20	-12.38	42.22	13.60	Peak	100	50																																																																																
6	15540.00	45.22	54.00	-8.78	30.55	14.67	Average	100	30																																																																																
7	15540.00	58.45	74.00	-15.55	43.78	14.67	Peak	100	30																																																																																
<p>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: "*" is Peak / Average value of fundamental frequency</p>																																																																																									

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	53.86	54.00	-0.14	49.58	4.28	Average	247	100
2	5150.00	70.61	74.00	-3.39	66.33	4.28	Peak	247	100
3 *	5180.00	106.05			101.75	4.30	Average	247	100
4 *	5180.00	116.54			112.24	4.30	Peak	247	100
5	10360.00	56.54	68.20	-11.66	42.94	13.60	Peak	100	42
6	15540.00	46.26	54.00	-7.74	31.59	14.67	Average	100	247
7	15540.00	58.93	74.00	-15.07	44.26	14.67	Peak	100	247

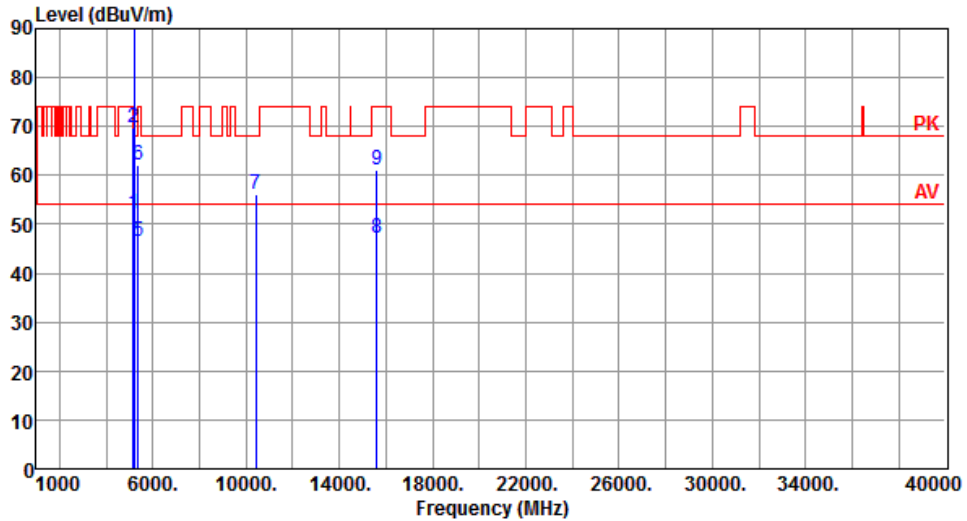
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	52.30	54.00	-1.70	48.02	4.28	Average	311	293
2	5150.00	69.62	74.00	-4.38	65.34	4.28	Peak	311	293
3 *	5200.00	107.70			103.38	4.32	Average	311	293
4 *	5200.00	118.87			114.55	4.32	Peak	311	293
5	5350.00	46.48	54.00	-7.52	42.04	4.44	Average	311	293
6	5350.00	62.00	74.00	-12.00	57.56	4.44	Peak	311	293
7	10400.00	56.13	68.20	-12.07	42.49	13.64	Peak	100	58
8	15600.00	47.18	54.00	-6.82	32.60	14.58	Average	100	37
9	15600.00	61.13	74.00	-12.87	46.55	14.58	Peak	100	37

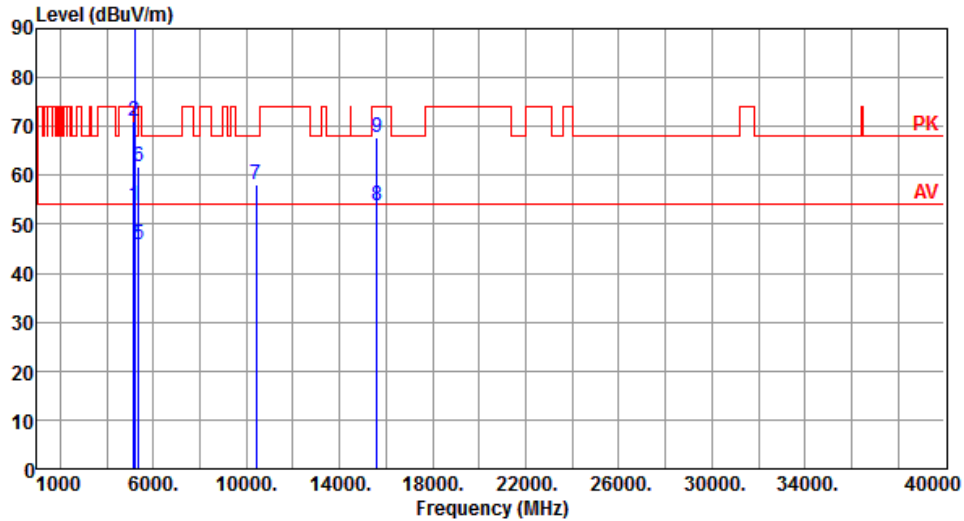
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	53.76	54.00	-0.24	49.48	4.28	Average	249	99
2	5150.00	71.11	74.00	-2.89	66.83	4.28	Peak	249	99
3 *	5200.00	109.95			105.63	4.32	Average	249	99
4 *	5200.00	121.15			116.83	4.32	Peak	249	99
5	5350.00	45.68	54.00	-8.32	41.24	4.44	Average	249	99
6	5350.00	61.84	74.00	-12.16	57.40	4.44	Peak	249	99
7	10400.00	58.23	68.20	-9.97	44.59	13.64	Peak	248	35
8	15600.00	53.89	54.00	-0.11	39.31	14.58	Average	100	237
9	15600.00	67.85	74.00	-6.15	53.27	14.58	Peak	100	237

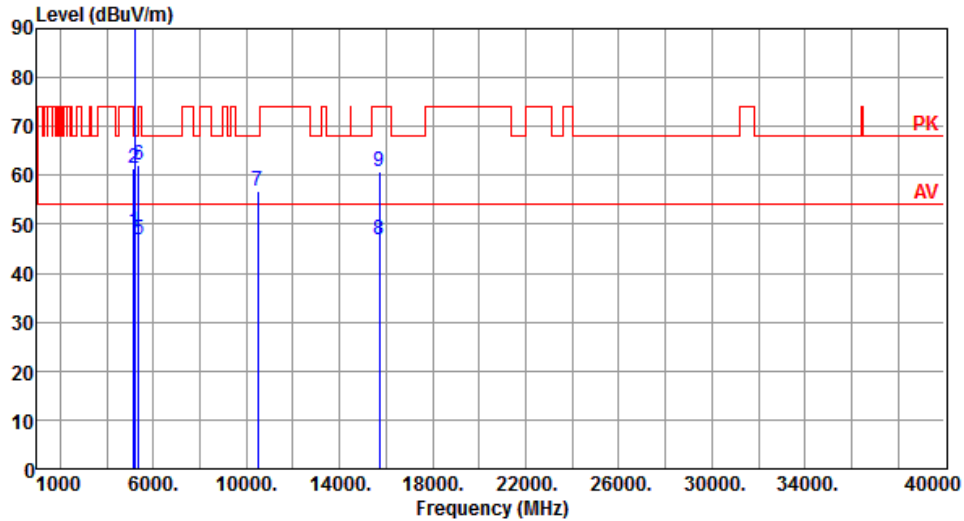
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	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	48.40	54.00	-5.60	44.12	4.28	Average	288	290
2	5150.00	61.53	74.00	-12.47	57.25	4.28	Peak	288	290
3 *	5240.00	108.83			104.48	4.35	Average	288	290
4 *	5240.00	119.21			114.86	4.35	Peak	288	290
5	5350.00	46.95	54.00	-7.05	42.51	4.44	Average	288	290
6	5350.00	61.99	74.00	-12.01	57.55	4.44	Peak	288	290
7	10480.00	56.70	68.20	-11.50	43.00	13.70	Peak	100	59
8	15720.00	46.95	54.00	-7.05	32.53	14.42	Average	100	35
9	15720.00	60.73	74.00	-13.27	46.31	14.42	Peak	100	35

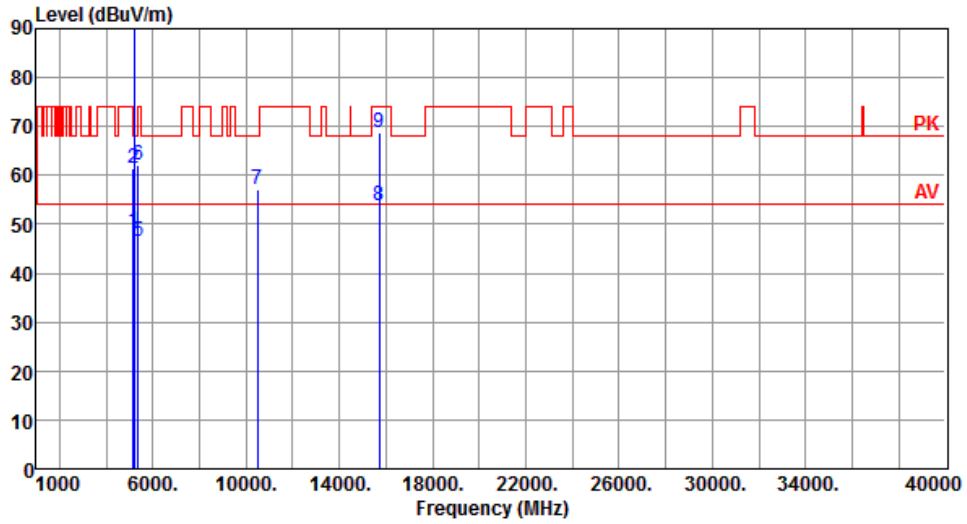
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	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	48.33	54.00	-5.67	44.05	4.28	Average	246	90
2	5150.00	61.58	74.00	-12.42	57.30	4.28	Peak	246	90
3 *	5240.00	110.41			106.06	4.35	Average	246	90
4 *	5240.00	121.64			117.29	4.35	Peak	246	90
5	5350.00	46.50	54.00	-7.50	42.06	4.44	Average	246	90
6	5350.00	62.13	74.00	-11.87	57.69	4.44	Peak	246	90
7	10480.00	57.25	68.20	-10.95	43.55	13.70	Peak	100	37
8	15720.00	53.85	54.00	-0.15	39.43	14.42	Average	100	245
9	15720.00	68.74	74.00	-5.26	54.32	14.42	Peak	100	245

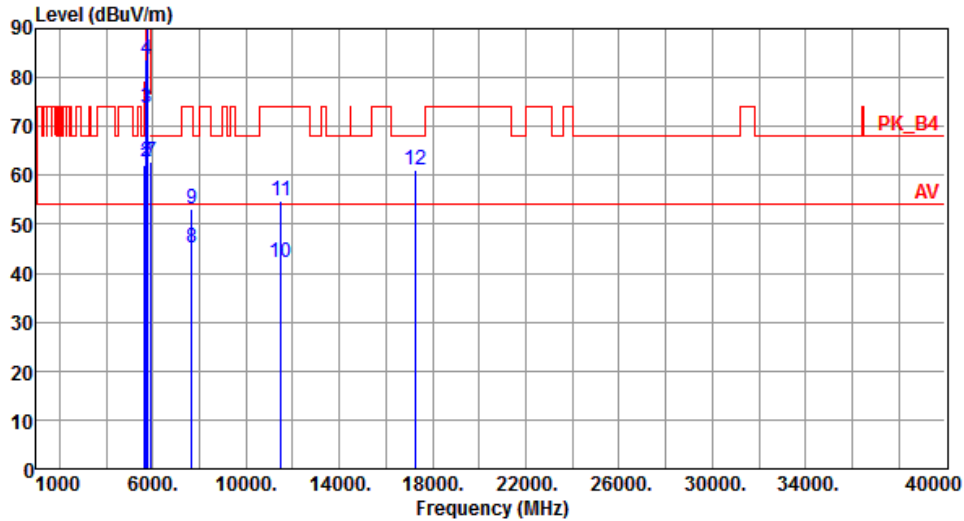
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.24	68.20	-5.96	57.51	4.73	Peak	100	33
2	5700.00	62.65	105.20	-42.55	57.84	4.81	Peak	100	33
3	5720.00	73.74	110.80	-37.06	68.90	4.84	Peak	100	33
4	5725.00	83.61	122.20	-38.59	78.77	4.84	Peak	100	33
5 *	5745.00	109.00			104.13	4.87	Average	100	33
6 *	5745.00	119.97			115.10	4.87	Peak	100	33
7	5925.00	62.83	68.20	-5.37	57.70	5.13	Peak	100	33
8	7660.00	45.10	54.00	-8.90	36.48	8.62	Average	100	310
9	7660.00	53.28	74.00	-20.72	44.66	8.62	Peak	100	310
10	11490.00	42.25	54.00	-11.75	28.14	14.11	Average	100	268
11	11490.00	54.74	74.00	-19.26	40.63	14.11	Peak	100	268
12	17235.00	61.26	68.20	-6.94	43.32	17.94	Peak	100	251

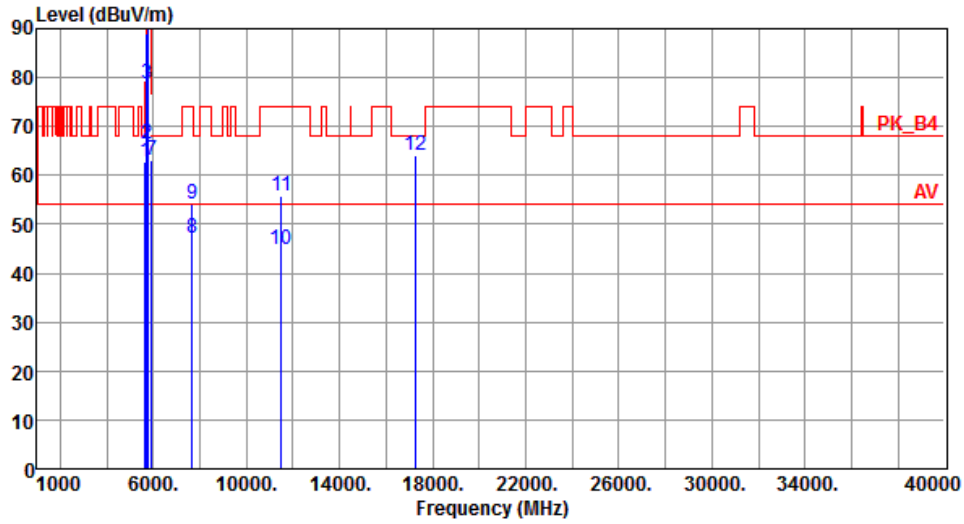
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.86	68.20	-5.34	58.13	4.73	Peak	100	38
2	5700.00	66.53	105.20	-38.67	61.72	4.81	Peak	100	38
3	5720.00	78.55	110.80	-32.25	73.71	4.84	Peak	100	38
4	5725.00	88.97	122.20	-33.23	84.13	4.84	Peak	100	38
5 *	5745.00	114.11			109.24	4.87	Average	100	38
6 *	5745.00	125.41			120.54	4.87	Peak	100	38
7	5925.00	63.22	68.20	-4.98	58.09	5.13	Peak	100	38
8	7660.00	47.22	54.00	-6.78	38.60	8.62	Average	100	95
9	7660.00	54.02	74.00	-19.98	45.40	8.62	Peak	100	95
10	11490.00	44.87	54.00	-9.13	30.76	14.11	Average	100	40
11	11490.00	55.67	74.00	-18.33	41.56	14.11	Peak	100	40
12	17235.00	63.98	68.20	-4.22	46.04	17.94	Peak	206	80

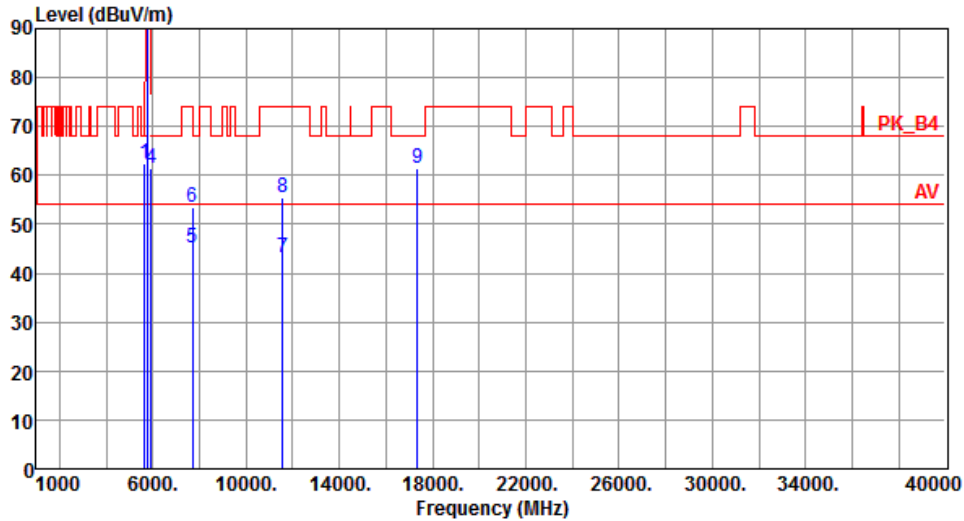
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.55	68.20	-5.65	57.82	4.73	Peak	100	35
2 *	5785.00	109.71			104.77	4.94	Average	100	35
3 *	5785.00	119.94			115.00	4.94	Peak	100	35
4	5925.00	61.48	68.20	-6.72	56.35	5.13	Peak	100	35
5	7713.00	45.16	54.00	-8.84	36.46	8.70	Average	100	302
6	7713.00	53.35	74.00	-20.65	44.65	8.70	Peak	100	302
7	11570.00	43.15	54.00	-10.85	29.17	13.98	Average	100	312
8	11570.00	55.47	74.00	-18.53	41.49	13.98	Peak	100	312
9	17355.00	61.57	68.20	-6.63	43.32	18.25	Peak	100	10

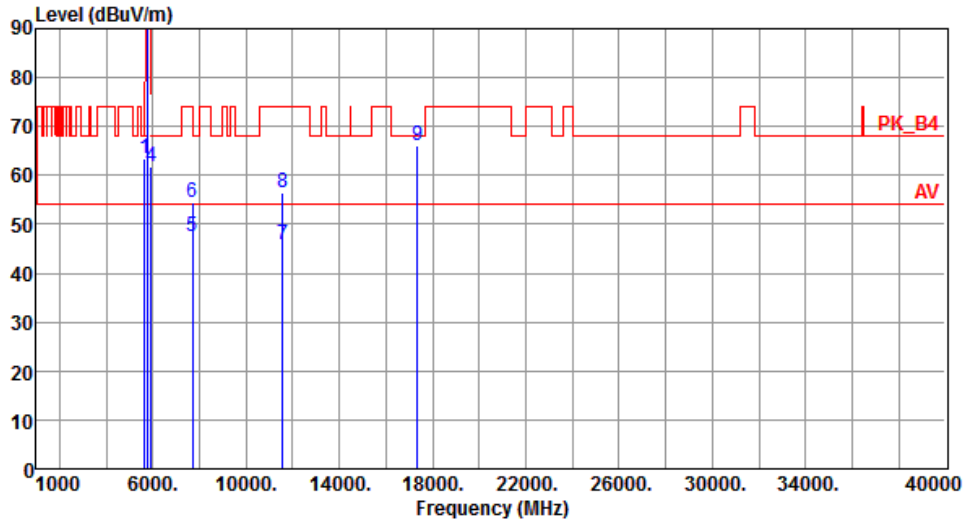
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.28	68.20	-4.92	58.55	4.73	Peak	100	39
2	* 5785.00	114.80			109.86	4.94	Average	100	39
3	* 5785.00	126.93			121.99	4.94	Peak	100	39
4	5925.00	61.83	68.20	-6.37	56.70	5.13	Peak	100	39
5	7713.00	47.46	54.00	-6.54	38.76	8.70	Average	100	50
6	7713.00	54.38	74.00	-19.62	45.68	8.70	Peak	100	50
7	11570.00	45.83	54.00	-8.17	31.85	13.98	Average	100	88
8	11570.00	56.60	74.00	-17.40	42.62	13.98	Peak	100	88
9	17355.00	66.05	68.20	-2.15	47.80	18.25	Peak	203	6

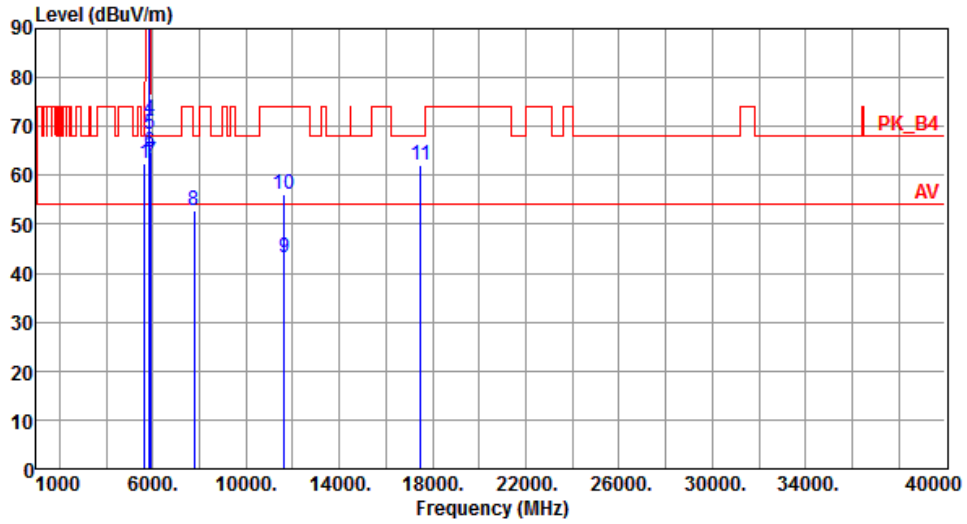
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.53	68.20	-5.67	57.80	4.73	Peak	100	104
2 *	5825.00	109.68			104.69	4.99	Average	100	104
3 *	5825.00	121.40			116.41	4.99	Peak	100	104
4	5850.00	71.34	122.20	-50.86	66.30	5.04	Peak	100	104
5	5855.00	68.45	110.80	-42.35	63.41	5.04	Peak	100	104
6	5875.00	64.67	105.20	-40.53	59.60	5.07	Peak	100	104
7	5925.00	62.92	68.20	-5.28	57.79	5.13	Peak	100	104
8	7766.60	52.89	68.20	-15.31	44.11	8.78	Peak	100	8
9	11650.00	43.12	54.00	-10.88	29.29	13.83	Average	100	112
10	11650.00	56.14	74.00	-17.86	42.31	13.83	Peak	100	112
11	17475.00	62.19	68.20	-6.01	43.64	18.55	Peak	222	135

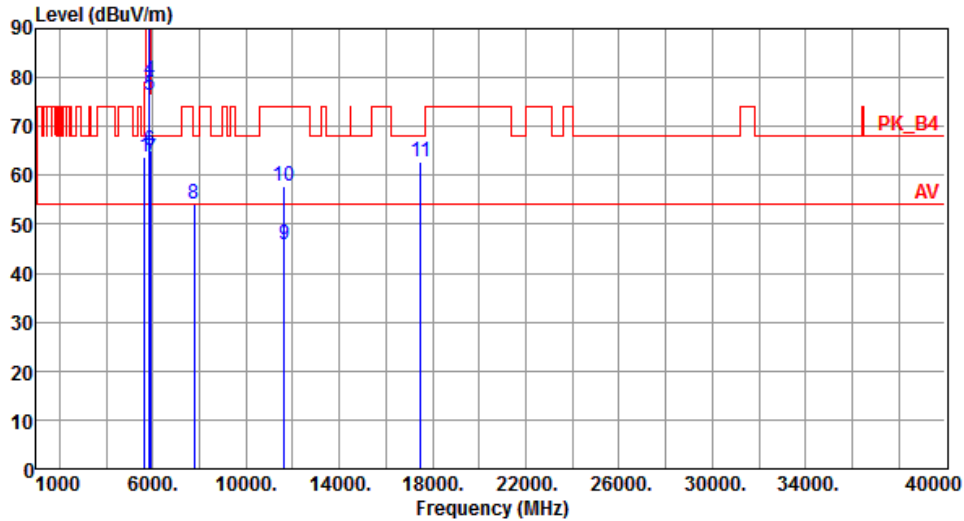
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.77	68.20	-4.43	59.04	4.73	Peak	100	288
2 *	5825.00	114.35			109.36	4.99	Average	100	288
3 *	5825.00	125.79			120.80	4.99	Peak	100	288
4	5850.00	79.44	122.20	-42.76	74.40	5.04	Peak	100	288
5	5855.00	76.32	110.80	-34.48	71.28	5.04	Peak	100	288
6	5875.00	65.17	105.20	-40.03	60.10	5.07	Peak	100	288
7	5925.00	63.44	68.20	-4.76	58.31	5.13	Peak	100	288
8	7766.60	54.05	68.20	-14.15	45.27	8.78	Peak	100	222
9	11650.00	45.80	54.00	-8.20	31.97	13.83	Average	100	246
10	11650.00	57.77	74.00	-16.23	43.94	13.83	Peak	100	246
11	17475.00	62.75	68.20	-5.45	44.20	18.55	Peak	235	350

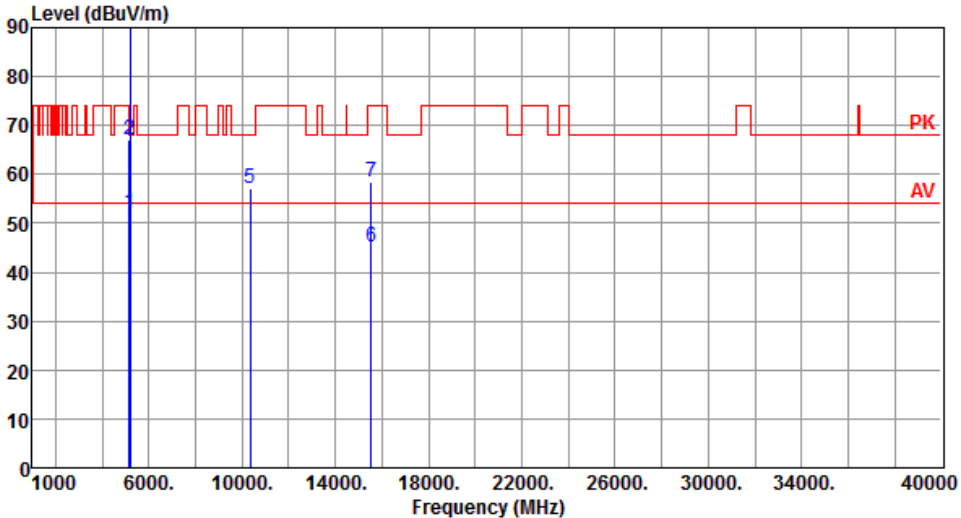
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

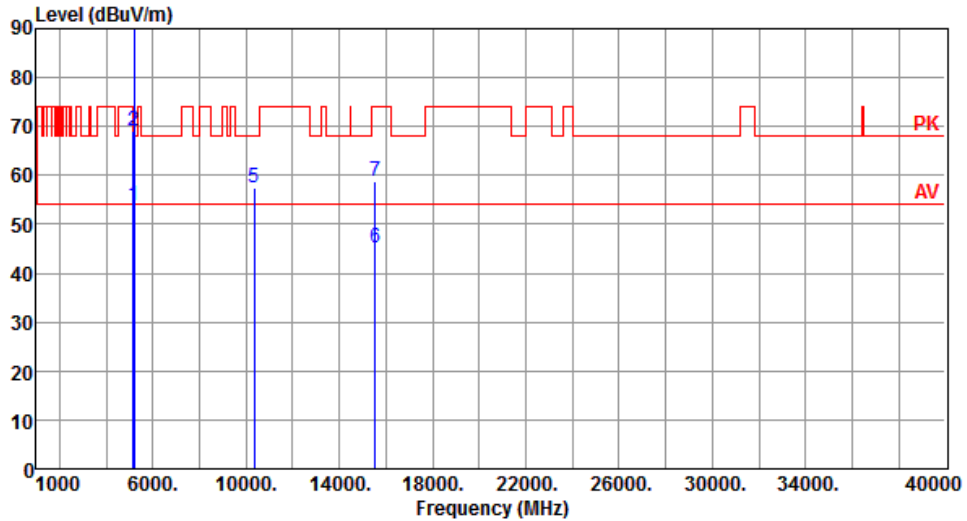
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

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

Modulation	VHT20	Test Freq. (MHz)	5180																																																																																									
Polarization	Horizontal																																																																																											
																																																																																												
	<table border="1"> <thead> <tr> <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>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> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>51.99</td> <td>54.00</td> <td>-2.01</td> <td>47.71</td> <td>4.28</td> <td>Average</td> <td>100</td> <td>267</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>67.18</td> <td>74.00</td> <td>-6.82</td> <td>62.90</td> <td>4.28</td> <td>Peak</td> <td>100</td> <td>267</td> </tr> <tr> <td>3 *</td> <td>5180.00</td> <td>101.41</td> <td></td> <td></td> <td>97.11</td> <td>4.30</td> <td>Average</td> <td>100</td> <td>296</td> </tr> <tr> <td>4 *</td> <td>5180.00</td> <td>113.85</td> <td></td> <td></td> <td>109.55</td> <td>4.30</td> <td>Peak</td> <td>100</td> <td>296</td> </tr> <tr> <td>5</td> <td>10360.00</td> <td>56.96</td> <td>68.20</td> <td>-11.24</td> <td>43.36</td> <td>13.60</td> <td>Peak</td> <td>100</td> <td>56</td> </tr> <tr> <td>6</td> <td>15540.00</td> <td>45.30</td> <td>54.00</td> <td>-8.70</td> <td>30.63</td> <td>14.67</td> <td>Average</td> <td>100</td> <td>30</td> </tr> <tr> <td>7</td> <td>15540.00</td> <td>58.29</td> <td>74.00</td> <td>-15.71</td> <td>43.62</td> <td>14.67</td> <td>Peak</td> <td>100</td> <td>30</td> </tr> </tbody> </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	5150.00	51.99	54.00	-2.01	47.71	4.28	Average	100	267	2	5150.00	67.18	74.00	-6.82	62.90	4.28	Peak	100	267	3 *	5180.00	101.41			97.11	4.30	Average	100	296	4 *	5180.00	113.85			109.55	4.30	Peak	100	296	5	10360.00	56.96	68.20	-11.24	43.36	13.60	Peak	100	56	6	15540.00	45.30	54.00	-8.70	30.63	14.67	Average	100	30	7	15540.00	58.29	74.00	-15.71	43.62	14.67	Peak	100	30			
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																																				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																																																				
1	5150.00	51.99	54.00	-2.01	47.71	4.28	Average	100	267																																																																																			
2	5150.00	67.18	74.00	-6.82	62.90	4.28	Peak	100	267																																																																																			
3 *	5180.00	101.41			97.11	4.30	Average	100	296																																																																																			
4 *	5180.00	113.85			109.55	4.30	Peak	100	296																																																																																			
5	10360.00	56.96	68.20	-11.24	43.36	13.60	Peak	100	56																																																																																			
6	15540.00	45.30	54.00	-8.70	30.63	14.67	Average	100	30																																																																																			
7	15540.00	58.29	74.00	-15.71	43.62	14.67	Peak	100	30																																																																																			
<p>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: "*" is Peak / Average value of fundamental frequency</p>																																																																																												

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	53.83	54.00	-0.17	49.55	4.28	Average	100	52
2	5150.00	69.00	74.00	-5.00	64.72	4.28	Peak	100	52
3 *	5180.00	104.82			100.52	4.30	Average	100	102
4 *	5180.00	116.73			112.43	4.30	Peak	100	102
5	10360.00	57.61	68.20	-10.59	44.01	13.60	Peak	100	30
6	15540.00	45.29	54.00	-8.71	30.62	14.67	Average	100	241
7	15540.00	58.71	74.00	-15.29	44.04	14.67	Peak	100	241

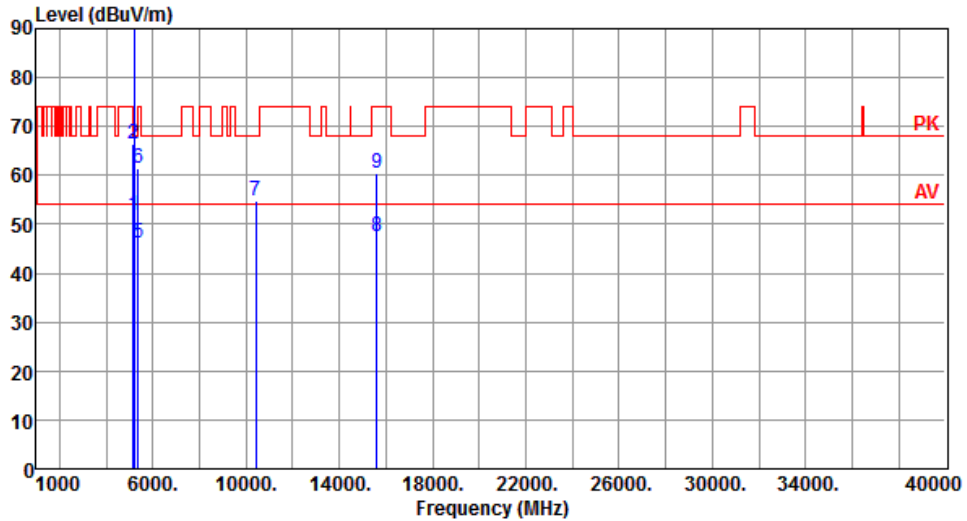
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	51.84	54.00	-2.16	47.56	4.28	Average	111	260
2	5150.00	66.51	74.00	-7.49	62.23	4.28	Peak	111	260
3 *	5200.00	107.12			102.80	4.32	Average	111	289
4 *	5200.00	117.31			112.99	4.32	Peak	111	289
5	5350.00	46.11	54.00	-7.89	41.67	4.44	Average	111	289
6	5350.00	61.32	74.00	-12.68	56.88	4.44	Peak	111	289
7	10400.00	54.91	68.20	-13.29	41.27	13.64	Peak	100	55
8	15600.00	47.54	54.00	-6.46	32.96	14.58	Average	100	37
9	15600.00	60.58	74.00	-13.42	46.00	14.58	Peak	100	37

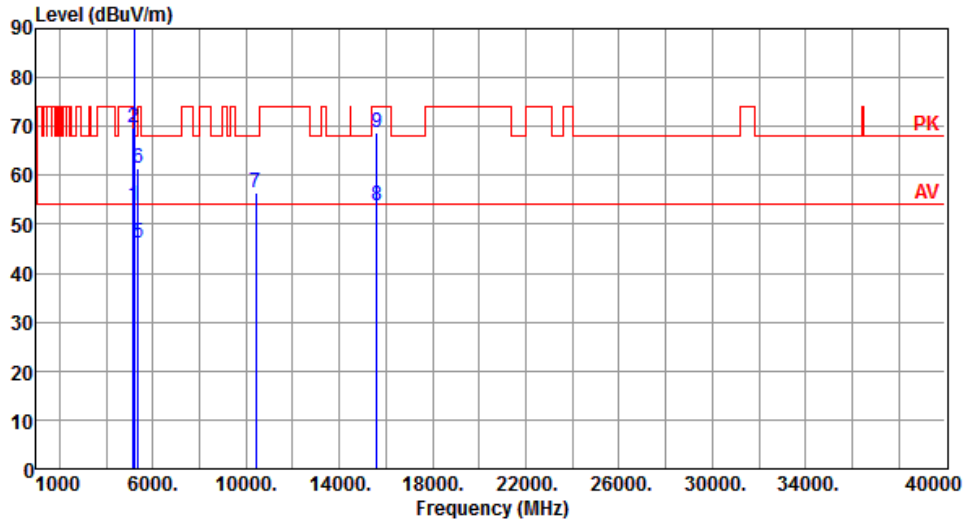
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	53.88	54.00	-0.12	49.60	4.28	Average	100	49
2	5150.00	69.75	74.00	-4.25	65.47	4.28	Peak	100	49
3 *	5200.00	108.92			104.60	4.32	Average	100	103
4 *	5200.00	120.89			116.57	4.32	Peak	100	103
5	5350.00	46.02	54.00	-7.98	41.58	4.44	Average	100	103
6	5350.00	61.43	74.00	-12.57	56.99	4.44	Peak	100	103
7	10400.00	56.60	68.20	-11.60	42.96	13.64	Peak	100	37
8	15600.00	53.89	54.00	-0.11	39.31	14.58	Average	100	245
9	15600.00	68.66	74.00	-5.34	54.08	14.58	Peak	100	245

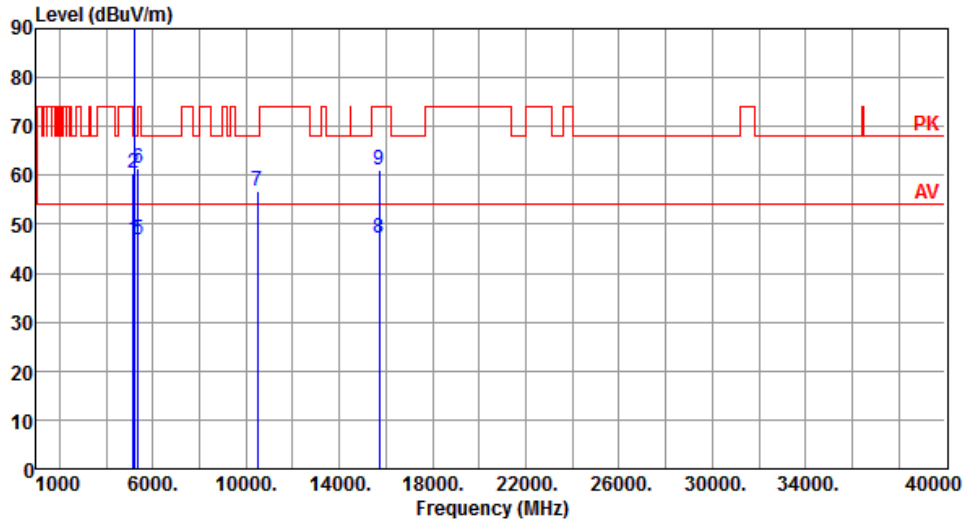
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	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	46.83	54.00	-7.17	42.55	4.28	Average	100	292
2	5150.00	60.42	74.00	-13.58	56.14	4.28	Peak	100	292
3 *	5240.00	104.88			100.53	4.35	Average	100	292
4 *	5240.00	117.74			113.39	4.35	Peak	100	292
5	5350.00	46.91	54.00	-7.09	42.47	4.44	Average	100	292
6	5350.00	61.54	74.00	-12.46	57.10	4.44	Peak	100	292
7	10480.00	56.95	68.20	-11.25	43.25	13.70	Peak	100	49
8	15720.00	47.22	54.00	-6.78	32.80	14.42	Average	100	29
9	15720.00	61.10	74.00	-12.90	46.68	14.42	Peak	100	29

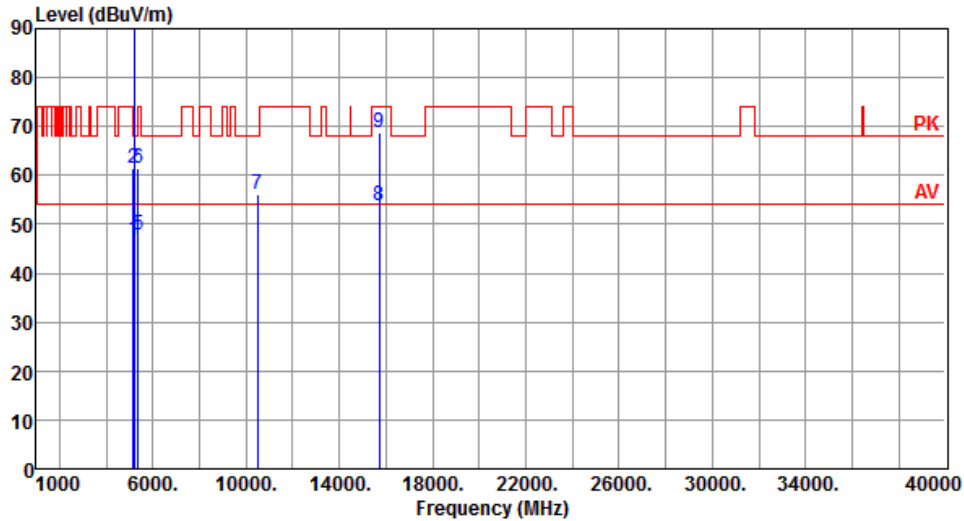
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	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	46.69	54.00	-7.31	42.41	4.28	Average	100	97
2	5150.00	61.32	74.00	-12.68	57.04	4.28	Peak	100	97
3 *	5240.00	107.41			103.06	4.35	Average	100	97
4 *	5240.00	120.15			115.80	4.35	Peak	100	97
5	5350.00	47.86	54.00	-6.14	43.42	4.44	Average	100	97
6	5350.00	61.45	74.00	-12.55	57.01	4.44	Peak	100	97
7	10480.00	56.04	68.20	-12.16	42.34	13.70	Peak	100	35
8	15720.00	53.88	54.00	-0.12	39.46	14.42	Average	100	233
9	15720.00	68.66	74.00	-5.34	54.24	14.42	Peak	100	233

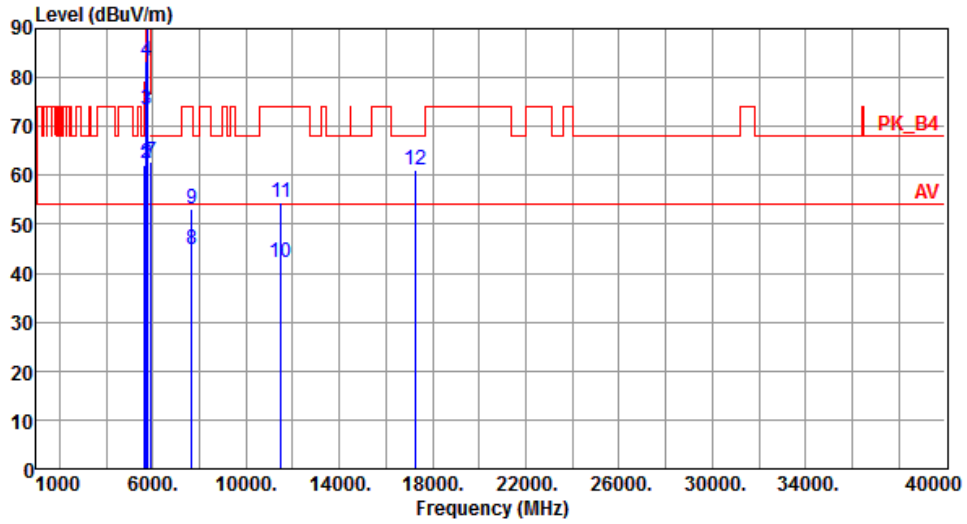
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.15	68.20	-6.05	57.42	4.73	Peak	100	35
2	5700.00	62.46	105.20	-42.74	57.65	4.81	Peak	100	35
3	5720.00	73.51	110.80	-37.29	68.67	4.84	Peak	100	35
4	5725.00	83.47	122.20	-38.73	78.63	4.84	Peak	100	35
5 *	5745.00	108.26			103.39	4.87	Average	100	35
6 *	5745.00	119.55			114.68	4.87	Peak	100	35
7	5925.00	62.92	68.20	-5.28	57.79	5.13	Peak	100	35
8	7660.00	44.78	54.00	-9.22	36.16	8.62	Average	100	306
9	7660.00	53.19	74.00	-20.81	44.57	8.62	Peak	100	306
10	11490.00	42.16	54.00	-11.84	28.05	14.11	Average	100	265
11	11490.00	54.60	74.00	-19.40	40.49	14.11	Peak	100	265
12	17235.00	61.05	68.20	-7.15	43.11	17.94	Peak	100	246

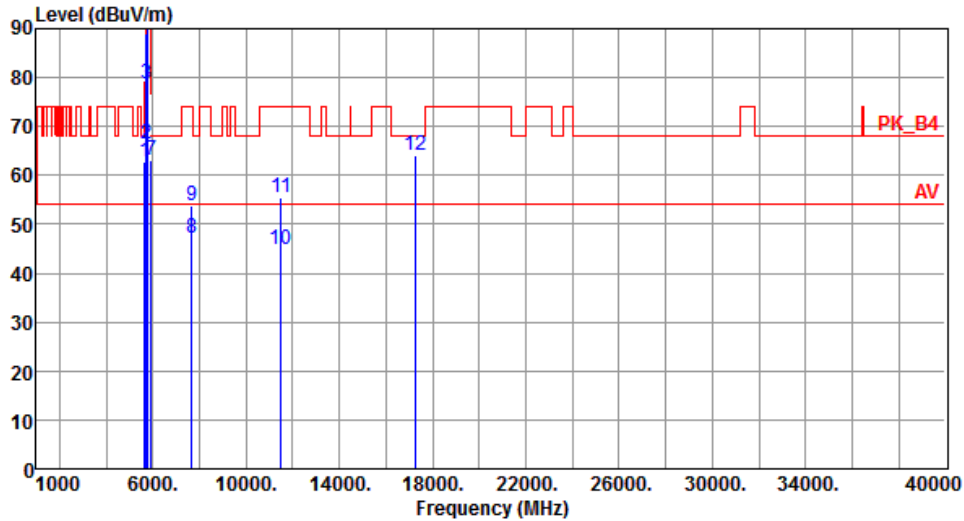
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.79	68.20	-5.41	58.06	4.73	Peak	100	36
2	5700.00	66.40	105.20	-38.80	61.59	4.81	Peak	100	36
3	5720.00	78.62	110.80	-32.18	73.78	4.84	Peak	100	36
4	5725.00	88.86	122.20	-33.34	84.02	4.84	Peak	100	36
5 *	5745.00	113.59			108.72	4.87	Average	100	36
6 *	5745.00	124.86			119.99	4.87	Peak	100	36
7	5925.00	63.01	68.20	-5.19	57.88	5.13	Peak	100	36
8	7660.00	47.14	54.00	-6.86	38.52	8.62	Average	100	92
9	7660.00	53.91	74.00	-20.09	45.29	8.62	Peak	100	92
10	11490.00	44.73	54.00	-9.27	30.62	14.11	Average	100	44
11	11490.00	55.50	74.00	-18.50	41.39	14.11	Peak	100	44
12	17235.00	64.22	68.20	-3.98	46.28	17.94	Peak	100	77

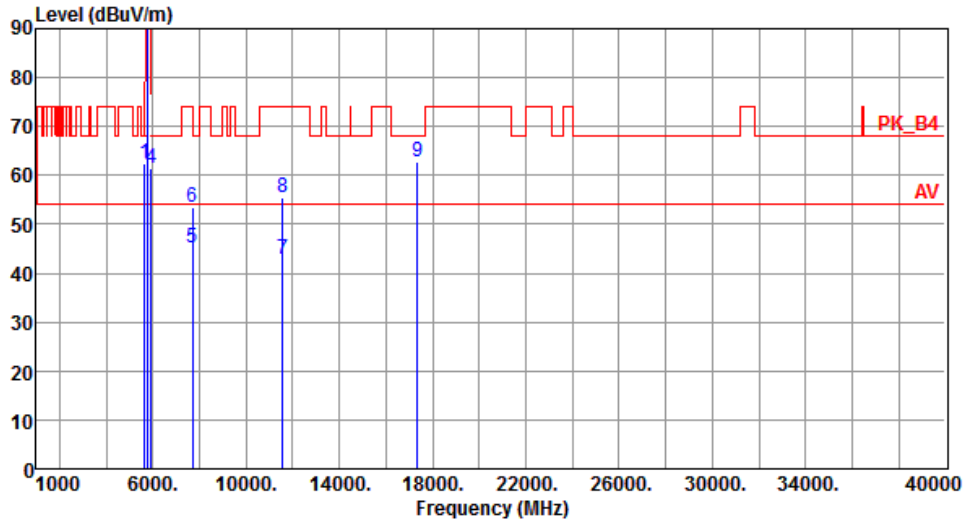
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.46	68.20	-5.74	57.73	4.73	Peak	100	262
2 *	5785.00	108.89	---	---	103.95	4.94	Average	100	262
3 *	5785.00	119.48	---	---	114.54	4.94	Peak	100	262
4	5925.00	61.35	68.20	-6.85	56.22	5.13	Peak	100	262
5	7713.00	45.32	54.00	-8.68	36.62	8.70	Average	100	296
6	7713.00	53.48	74.00	-20.52	44.78	8.70	Peak	100	296
7	11570.00	43.00	54.00	-11.00	29.02	13.98	Average	100	270
8	11570.00	55.47	74.00	-18.53	41.49	13.98	Peak	100	270
9	17355.00	62.93	68.20	-5.27	44.68	18.25	Peak	100	262

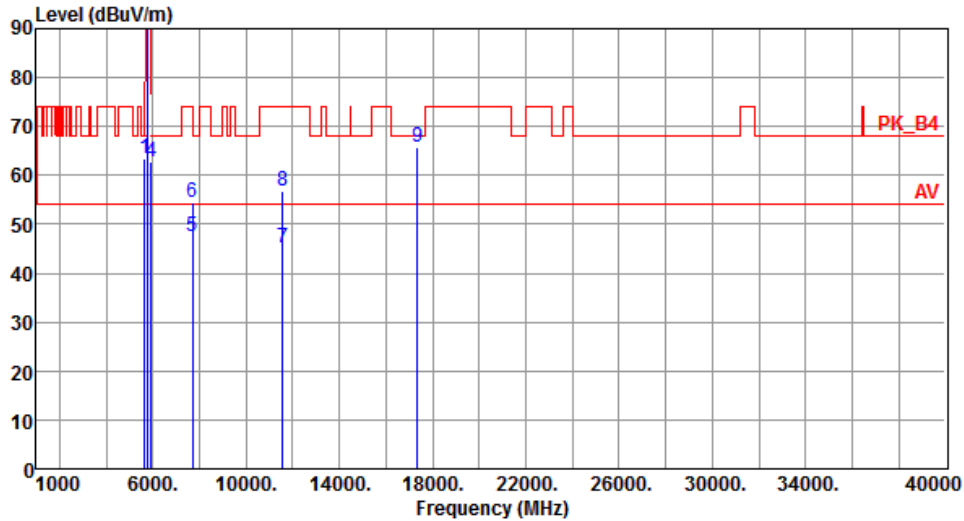
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.31	68.20	-4.89	58.58	4.73	Peak	100	40
2	* 5785.00	113.86			108.92	4.94	Average	100	40
3	* 5785.00	126.56			121.62	4.94	Peak	100	40
4	5925.00	62.83	68.20	-5.37	57.70	5.13	Peak	100	40
5	7713.00	47.61	54.00	-6.39	38.91	8.70	Average	100	46
6	7713.00	54.54	74.00	-19.46	45.84	8.70	Peak	100	46
7	11570.00	45.18	54.00	-8.82	31.20	13.98	Average	100	88
8	11570.00	56.64	74.00	-17.36	42.66	13.98	Peak	100	88
9	17355.00	65.60	68.20	-2.60	47.35	18.25	Peak	211	4

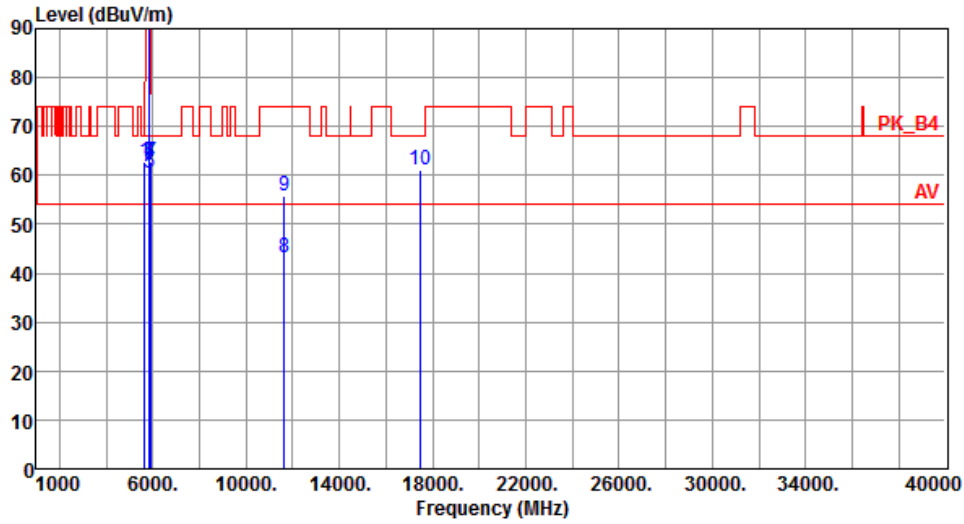
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.64	68.20	-5.56	57.91	4.73	Peak	100	253
2 *	5825.00	108.25			103.26	4.99	Average	100	253
3 *	5825.00	119.85			114.86	4.99	Peak	100	253
4	5850.00	62.75	122.20	-59.45	57.71	5.04	Peak	100	253
5	5855.00	60.51	110.80	-50.29	55.47	5.04	Peak	100	253
6	5875.00	62.35	105.20	-42.85	57.28	5.07	Peak	100	253
7	5925.00	62.83	68.20	-5.37	57.70	5.13	Peak	100	253
8	11650.00	43.24	54.00	-10.76	29.41	13.83	Average	100	269
9	11650.00	55.69	74.00	-18.31	41.86	13.83	Peak	100	269
10	17475.00	61.17	68.20	-7.03	42.62	18.55	Peak	100	253

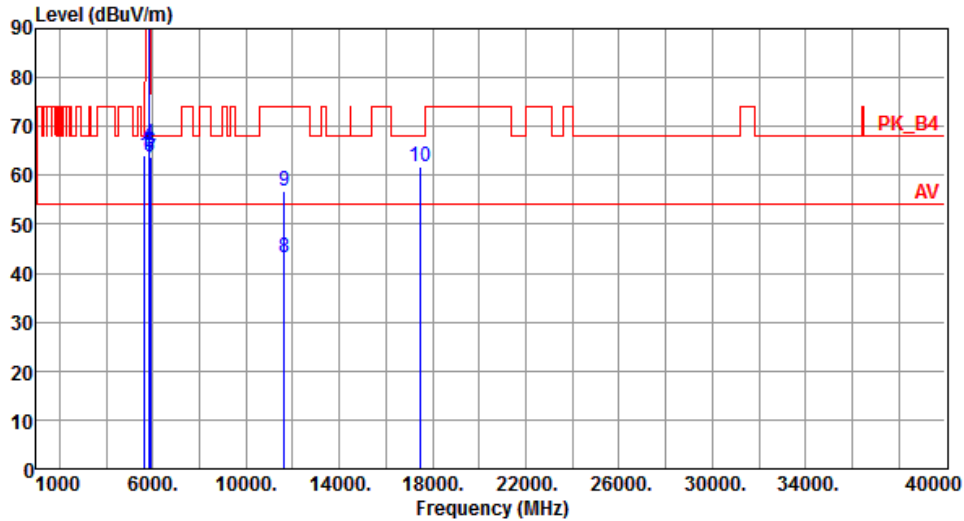
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	64.15	68.20	-4.05	59.42	4.73	Peak	100	37
2	* 5825.00	113.76			108.77	4.99	Average	100	37
3	* 5825.00	125.60			120.61	4.99	Peak	100	37
4	5850.00	66.26	122.20	-55.94	61.22	5.04	Peak	100	37
5	5855.00	64.88	110.80	-45.92	59.84	5.04	Peak	100	37
6	5875.00	63.72	105.20	-41.48	58.65	5.07	Peak	100	37
7	5925.00	63.30	68.20	-4.90	58.17	5.13	Peak	100	37
8	11650.00	43.34	54.00	-10.66	29.51	13.83	Average	100	97
9	11650.00	56.63	74.00	-17.37	42.80	13.83	Peak	100	97
10	17475.00	61.77	68.20	-6.43	43.22	18.55	Peak	100	80

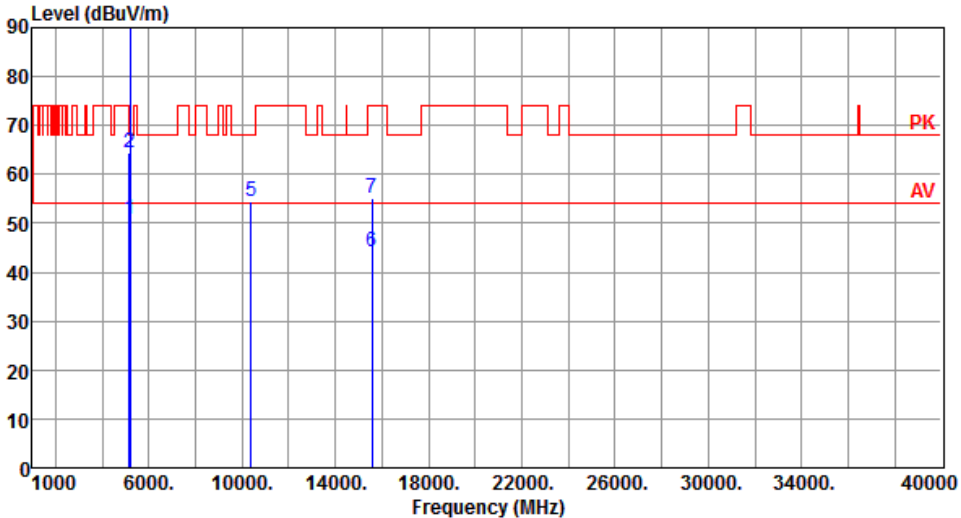
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

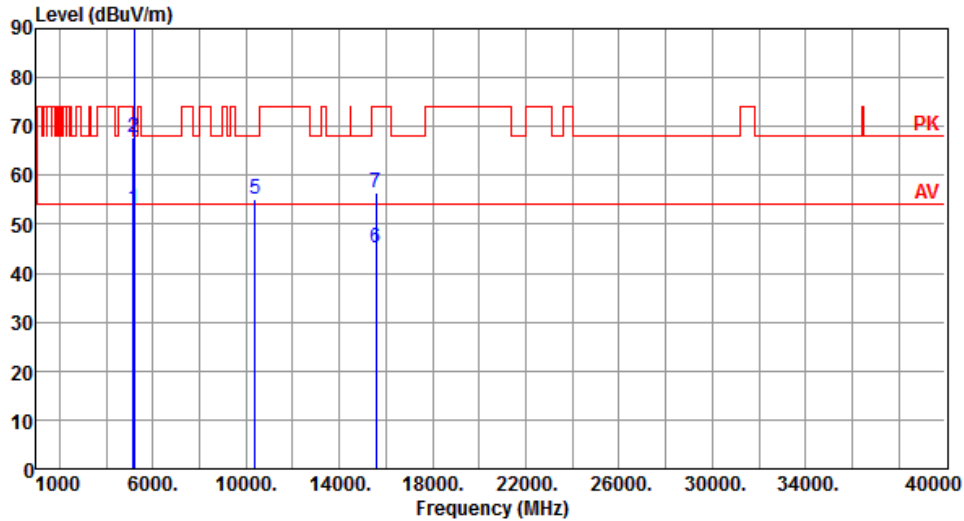
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

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

Modulation	VHT40	Test Freq. (MHz)	5190																																																																																									
Polarization	Horizontal																																																																																											
																																																																																												
	<table border="1"> <thead> <tr> <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>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> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>50.91</td> <td>54.00</td> <td>-3.09</td> <td>46.63</td> <td>4.28</td> <td>Average</td> <td>100</td> <td>291</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>64.44</td> <td>74.00</td> <td>-9.56</td> <td>60.16</td> <td>4.28</td> <td>Peak</td> <td>100</td> <td>291</td> </tr> <tr> <td>3 *</td> <td>5190.00</td> <td>96.91</td> <td></td> <td></td> <td>92.59</td> <td>4.32</td> <td>Average</td> <td>100</td> <td>291</td> </tr> <tr> <td>4 *</td> <td>5190.00</td> <td>108.62</td> <td></td> <td></td> <td>104.30</td> <td>4.32</td> <td>Peak</td> <td>100</td> <td>291</td> </tr> <tr> <td>5</td> <td>10380.00</td> <td>54.37</td> <td>68.20</td> <td>-13.83</td> <td>40.75</td> <td>13.62</td> <td>Peak</td> <td>100</td> <td>31</td> </tr> <tr> <td>6</td> <td>15570.00</td> <td>44.26</td> <td>54.00</td> <td>-9.74</td> <td>29.64</td> <td>14.62</td> <td>Average</td> <td>100</td> <td>41</td> </tr> <tr> <td>7</td> <td>15570.00</td> <td>55.21</td> <td>74.00</td> <td>-18.79</td> <td>40.59</td> <td>14.62</td> <td>Peak</td> <td>100</td> <td>41</td> </tr> </tbody> </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	5150.00	50.91	54.00	-3.09	46.63	4.28	Average	100	291	2	5150.00	64.44	74.00	-9.56	60.16	4.28	Peak	100	291	3 *	5190.00	96.91			92.59	4.32	Average	100	291	4 *	5190.00	108.62			104.30	4.32	Peak	100	291	5	10380.00	54.37	68.20	-13.83	40.75	13.62	Peak	100	31	6	15570.00	44.26	54.00	-9.74	29.64	14.62	Average	100	41	7	15570.00	55.21	74.00	-18.79	40.59	14.62	Peak	100	41			
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																																				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																																																				
1	5150.00	50.91	54.00	-3.09	46.63	4.28	Average	100	291																																																																																			
2	5150.00	64.44	74.00	-9.56	60.16	4.28	Peak	100	291																																																																																			
3 *	5190.00	96.91			92.59	4.32	Average	100	291																																																																																			
4 *	5190.00	108.62			104.30	4.32	Peak	100	291																																																																																			
5	10380.00	54.37	68.20	-13.83	40.75	13.62	Peak	100	31																																																																																			
6	15570.00	44.26	54.00	-9.74	29.64	14.62	Average	100	41																																																																																			
7	15570.00	55.21	74.00	-18.79	40.59	14.62	Peak	100	41																																																																																			
<p>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:"*" is Peak / Average value of fundamental frequency</p>																																																																																												

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		



	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	53.13	54.00	-0.87	48.85	4.28	Average	262	97
2	5150.00	67.61	74.00	-6.39	63.33	4.28	Peak	262	97
3 *	5190.00	99.92			95.60	4.32	Average	262	91
4 *	5190.00	111.02			106.70	4.32	Peak	262	91
5	10380.00	55.28	68.20	-12.92	41.66	13.62	Peak	100	217
6	15570.00	45.10	54.00	-8.90	30.48	14.62	Average	100	336
7	15570.00	56.44	74.00	-17.56	41.82	14.62	Peak	100	336

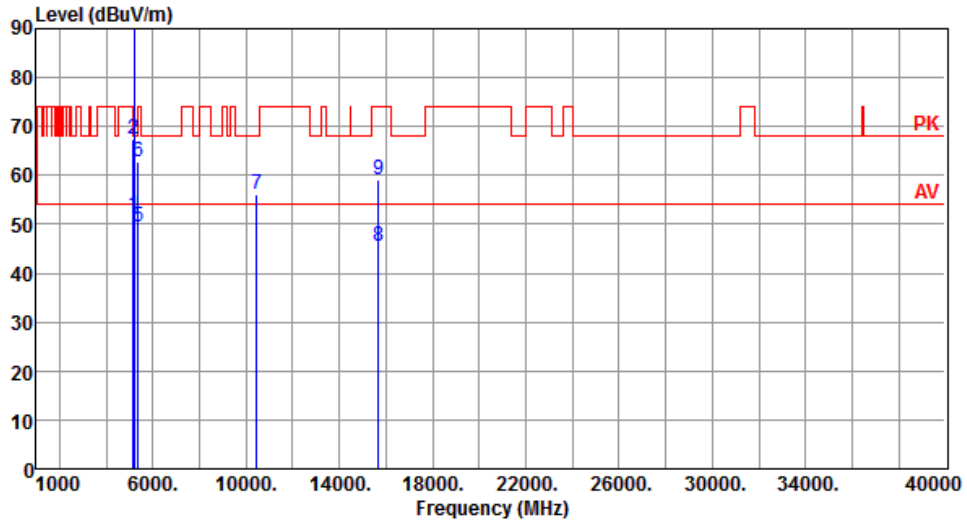
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		



	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	51.88	54.00	-2.12	47.60	4.28	Average	100	293
2	5150.00	67.35	74.00	-6.65	63.07	4.28	Peak	100	293
3 *	5230.00	103.28			98.94	4.34	Average	100	293
4 *	5230.00	114.73			110.39	4.34	Peak	100	293
5	5350.00	49.41	54.00	-4.59	44.97	4.44	Average	100	293
6	5350.00	62.72	74.00	-11.28	58.28	4.44	Peak	100	293
7	10460.00	56.19	68.20	-12.01	42.52	13.67	Peak	100	36
8	15690.00	45.66	54.00	-8.34	31.20	14.46	Average	100	36
9	15690.00	59.00	74.00	-15.00	44.54	14.46	Peak	100	36

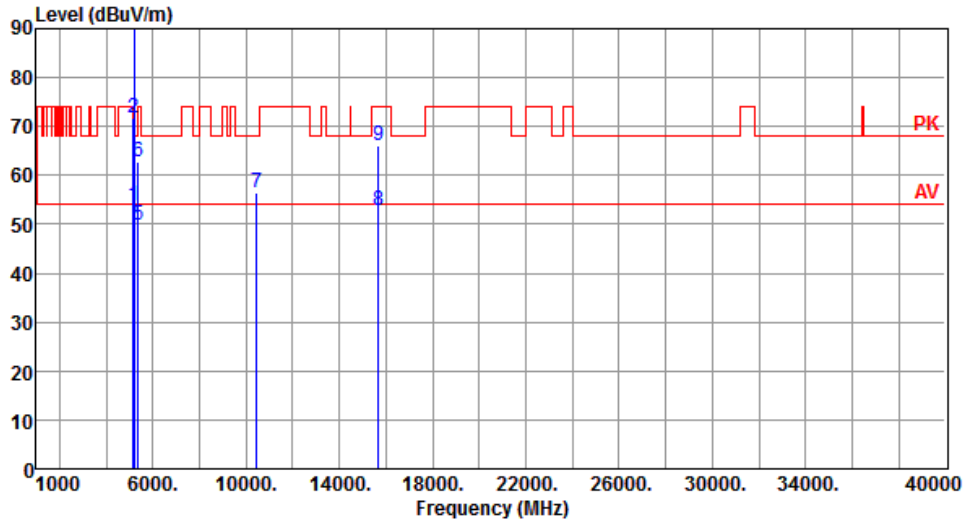
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		



	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	53.88	54.00	-0.12	49.60	4.28	Average	260	98
2	5150.00	71.60	74.00	-2.40	67.32	4.28	Peak	260	98
3 *	5230.00	106.51			102.17	4.34	Average	260	98
4 *	5230.00	118.33			113.99	4.34	Peak	260	98
5	5350.00	49.73	54.00	-4.27	45.29	4.44	Average	260	98
6	5350.00	62.76	74.00	-11.24	58.32	4.44	Peak	260	98
7	10460.00	56.33	68.20	-11.87	42.66	13.67	Peak	100	232
8	15690.00	52.96	54.00	-1.04	38.50	14.46	Average	100	232
9	15690.00	65.94	74.00	-8.06	51.48	14.46	Peak	100	232

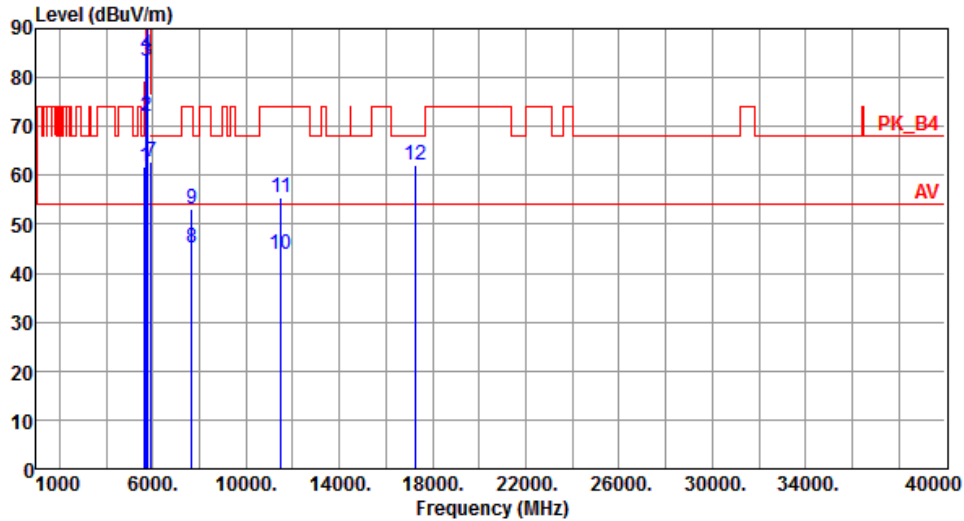
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.69	68.20	-6.51	56.96	4.73	Peak	100	35
2	5700.00	71.93	105.20	-33.27	67.12	4.81	Peak	100	35
3	5720.00	83.26	110.80	-27.54	78.42	4.84	Peak	100	35
4	5725.00	84.64	122.20	-37.56	79.80	4.84	Peak	100	35
5 *	5755.00	106.26			101.37	4.89	Average	100	35
6 *	5755.00	117.84			112.95	4.89	Peak	100	35
7	5925.00	62.85	68.20	-5.35	57.72	5.13	Peak	100	35
8	7673.00	45.32	54.00	-8.68	36.68	8.64	Average	100	295
9	7673.00	53.15	74.00	-20.85	44.51	8.64	Peak	100	295
10	11510.00	43.89	54.00	-10.11	29.80	14.09	Average	100	272
11	11510.00	55.31	74.00	-18.69	41.22	14.09	Peak	100	272
12	17265.00	62.16	68.20	-6.04	44.14	18.02	Peak	100	262

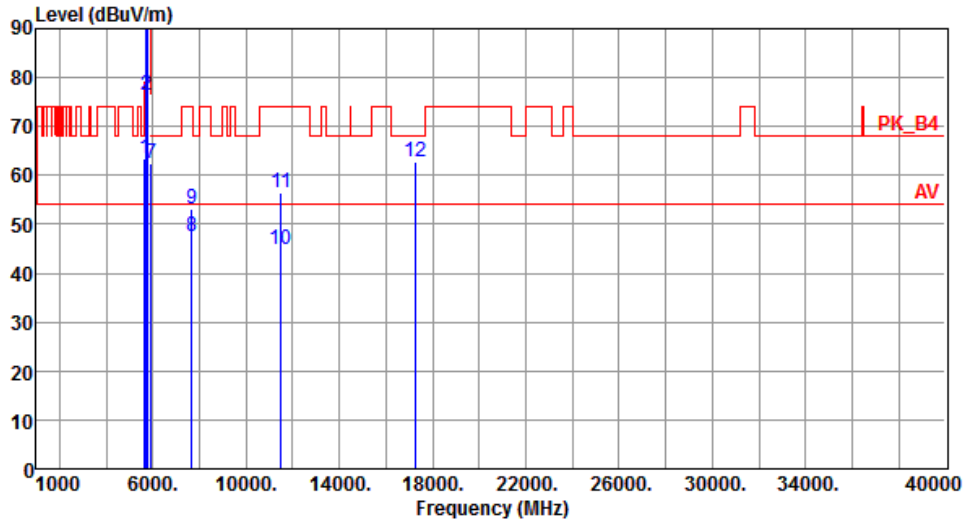
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.37	68.20	-4.83	58.64	4.73	Peak	100	42
2	5700.00	76.50	105.20	-28.70	71.69	4.81	Peak	100	42
3	5720.00	90.87	110.80	-19.93	86.03	4.84	Peak	100	42
4	5725.00	92.69	122.20	-29.51	87.85	4.84	Peak	100	42
5 *	5755.00	111.19			106.30	4.89	Average	100	42
6 *	5755.00	123.74			118.85	4.89	Peak	100	42
7	5925.00	62.38	68.20	-5.82	57.25	5.13	Peak	200	5
8	7673.00	47.39	54.00	-6.61	38.75	8.64	Average	100	45
9	7673.00	53.19	74.00	-20.81	44.55	8.64	Peak	100	45
10	11510.00	44.94	54.00	-9.06	30.85	14.09	Average	100	87
11	11510.00	56.55	74.00	-17.45	42.46	14.09	Peak	100	87
12	17265.00	62.64	68.20	-5.56	44.62	18.02	Peak	200	5

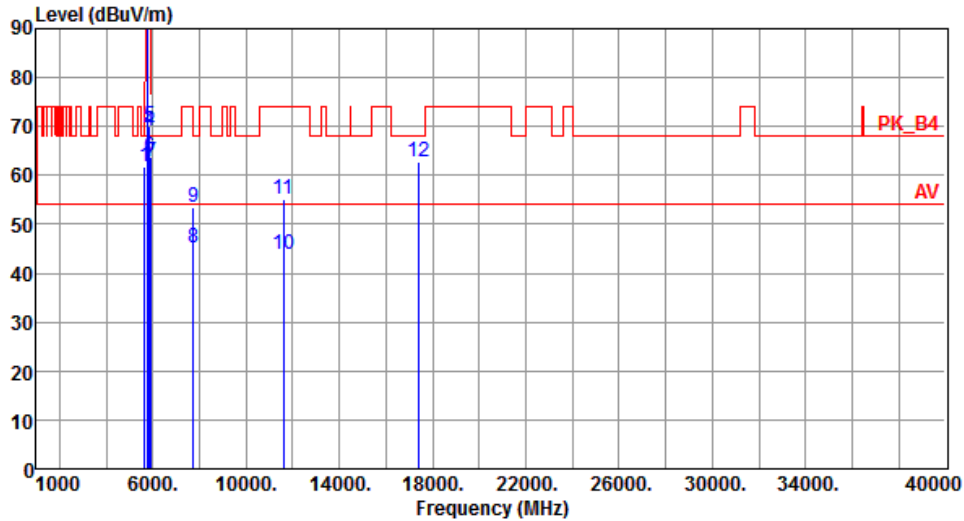
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.67	68.20	-6.53	56.94	4.73	Peak	100	36
2 *	5795.00	106.10			101.15	4.95	Average	100	36
3 *	5795.00	118.02			113.07	4.95	Peak	100	36
4	5850.00	69.05	122.20	-53.15	64.01	5.04	Peak	100	36
5	5855.00	70.06	110.80	-40.74	65.02	5.04	Peak	100	36
6	5875.00	63.62	105.20	-41.58	58.55	5.07	Peak	100	36
7	5925.00	62.74	68.20	-5.46	57.61	5.13	Peak	100	36
8	7727.00	45.24	54.00	-8.76	36.52	8.72	Average	100	296
9	7727.00	53.41	74.00	-20.59	44.69	8.72	Peak	100	296
10	11590.00	43.88	54.00	-10.12	29.94	13.94	Average	100	274
11	11590.00	55.25	74.00	-18.75	41.31	13.94	Peak	100	274
12	17385.00	62.61	68.20	-5.59	44.28	18.33	Peak	100	266

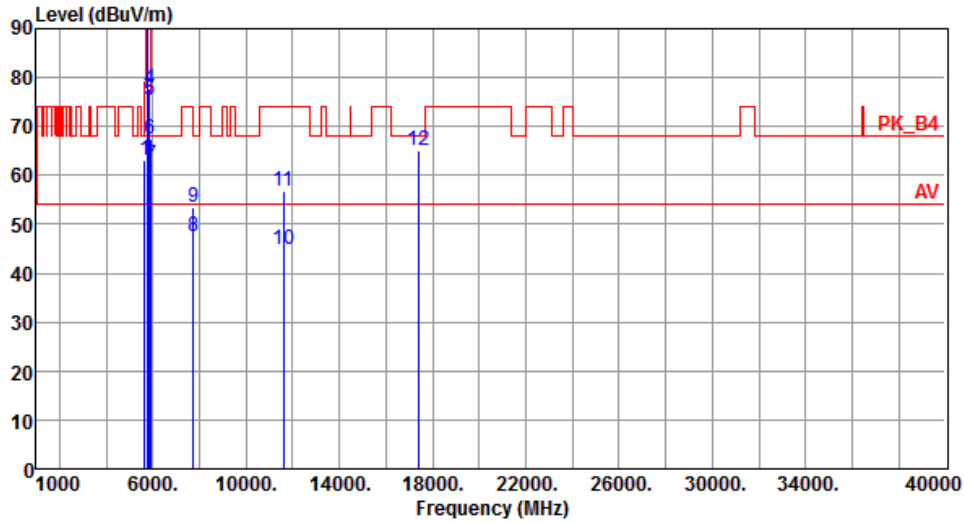
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.13	68.20	-5.07	58.40	4.73	Peak	100	40
2	*	5795.00	111.52		106.57	4.95	Average	100	40
3	*	5795.00	123.79		118.84	4.95	Peak	100	40
4	5850.00	77.58	122.20	-44.62	72.54	5.04	Peak	100	40
5	5855.00	75.52	110.80	-35.28	70.48	5.04	Peak	100	40
6	5875.00	67.39	105.20	-37.81	62.32	5.07	Peak	100	40
7	5925.00	62.26	68.20	-5.94	57.13	5.13	Peak	100	40
8	7727.00	47.42	54.00	-6.58	38.70	8.72	Average	100	45
9	7727.00	53.34	74.00	-20.66	44.62	8.72	Peak	100	45
10	11590.00	44.84	54.00	-9.16	30.90	13.94	Average	100	90
11	11590.00	56.69	74.00	-17.31	42.75	13.94	Peak	100	90
12	17385.00	65.11	68.20	-3.09	46.78	18.33	Peak	207	84

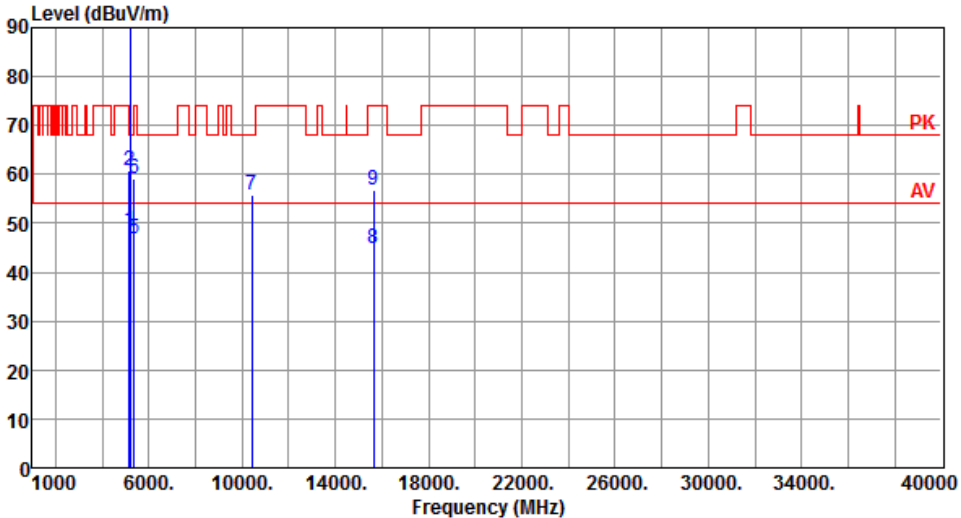
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

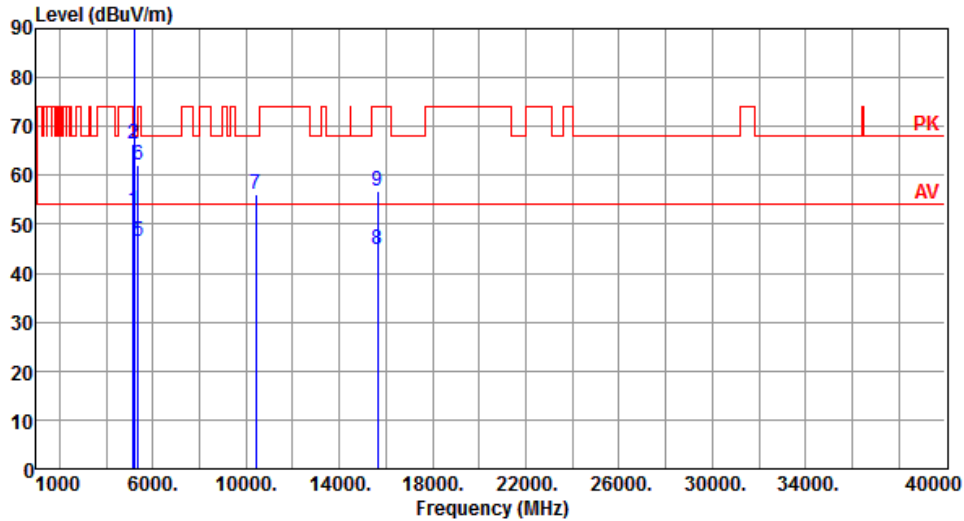
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

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

Modulation	VHT80	Test Freq. (MHz)	5210																																																																																																										
Polarization	Horizontal																																																																																																												
																																																																																																													
	<table border="1"> <thead> <tr> <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>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> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>48.62</td> <td>54.00</td> <td>-5.38</td> <td>44.34</td> <td>4.28</td> <td>Average</td> <td>100</td> <td>295</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>60.75</td> <td>74.00</td> <td>-13.25</td> <td>56.47</td> <td>4.28</td> <td>Peak</td> <td>100</td> <td>295</td> </tr> <tr> <td>3 *</td> <td>5210.00</td> <td>93.05</td> <td>---</td> <td>---</td> <td>88.73</td> <td>4.32</td> <td>Average</td> <td>100</td> <td>295</td> </tr> <tr> <td>4 *</td> <td>5210.00</td> <td>103.56</td> <td>---</td> <td>---</td> <td>99.24</td> <td>4.32</td> <td>Peak</td> <td>100</td> <td>295</td> </tr> <tr> <td>5</td> <td>5350.00</td> <td>46.84</td> <td>54.00</td> <td>-7.16</td> <td>42.40</td> <td>4.44</td> <td>Average</td> <td>100</td> <td>295</td> </tr> <tr> <td>6</td> <td>5350.00</td> <td>59.15</td> <td>74.00</td> <td>-14.85</td> <td>54.71</td> <td>4.44</td> <td>Peak</td> <td>100</td> <td>295</td> </tr> <tr> <td>7</td> <td>10420.00</td> <td>55.90</td> <td>68.20</td> <td>-12.30</td> <td>42.24</td> <td>13.66</td> <td>Peak</td> <td>100</td> <td>50</td> </tr> <tr> <td>8</td> <td>15630.00</td> <td>44.97</td> <td>54.00</td> <td>-9.03</td> <td>30.43</td> <td>14.54</td> <td>Average</td> <td>100</td> <td>33</td> </tr> <tr> <td>9</td> <td>15630.00</td> <td>56.79</td> <td>74.00</td> <td>-17.21</td> <td>42.25</td> <td>14.54</td> <td>Peak</td> <td>100</td> <td>33</td> </tr> </tbody> </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	5150.00	48.62	54.00	-5.38	44.34	4.28	Average	100	295	2	5150.00	60.75	74.00	-13.25	56.47	4.28	Peak	100	295	3 *	5210.00	93.05	---	---	88.73	4.32	Average	100	295	4 *	5210.00	103.56	---	---	99.24	4.32	Peak	100	295	5	5350.00	46.84	54.00	-7.16	42.40	4.44	Average	100	295	6	5350.00	59.15	74.00	-14.85	54.71	4.44	Peak	100	295	7	10420.00	55.90	68.20	-12.30	42.24	13.66	Peak	100	50	8	15630.00	44.97	54.00	-9.03	30.43	14.54	Average	100	33	9	15630.00	56.79	74.00	-17.21	42.25	14.54	Peak	100	33
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																																																					
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																																																																					
1	5150.00	48.62	54.00	-5.38	44.34	4.28	Average	100	295																																																																																																				
2	5150.00	60.75	74.00	-13.25	56.47	4.28	Peak	100	295																																																																																																				
3 *	5210.00	93.05	---	---	88.73	4.32	Average	100	295																																																																																																				
4 *	5210.00	103.56	---	---	99.24	4.32	Peak	100	295																																																																																																				
5	5350.00	46.84	54.00	-7.16	42.40	4.44	Average	100	295																																																																																																				
6	5350.00	59.15	74.00	-14.85	54.71	4.44	Peak	100	295																																																																																																				
7	10420.00	55.90	68.20	-12.30	42.24	13.66	Peak	100	50																																																																																																				
8	15630.00	44.97	54.00	-9.03	30.43	14.54	Average	100	33																																																																																																				
9	15630.00	56.79	74.00	-17.21	42.25	14.54	Peak	100	33																																																																																																				
<p>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: "*" is Peak / Average value of fundamental frequency</p>																																																																																																													

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		



	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	52.94	54.00	-1.06	48.66	4.28	Average	263	104
2	5150.00	66.50	74.00	-7.50	62.22	4.28	Peak	263	104
3 *	5210.00	95.34			91.02	4.32	Average	263	94
4 *	5210.00	106.85			102.53	4.32	Peak	263	94
5	5350.00	46.53	54.00	-7.47	42.09	4.44	Average	263	94
6	5350.00	61.98	74.00	-12.02	57.54	4.44	Peak	263	94
7	10420.00	56.25	68.20	-11.95	42.59	13.66	Peak	100	39
8	15630.00	44.87	54.00	-9.13	30.33	14.54	Average	100	240
9	15630.00	56.92	74.00	-17.08	42.38	14.54	Peak	100	240

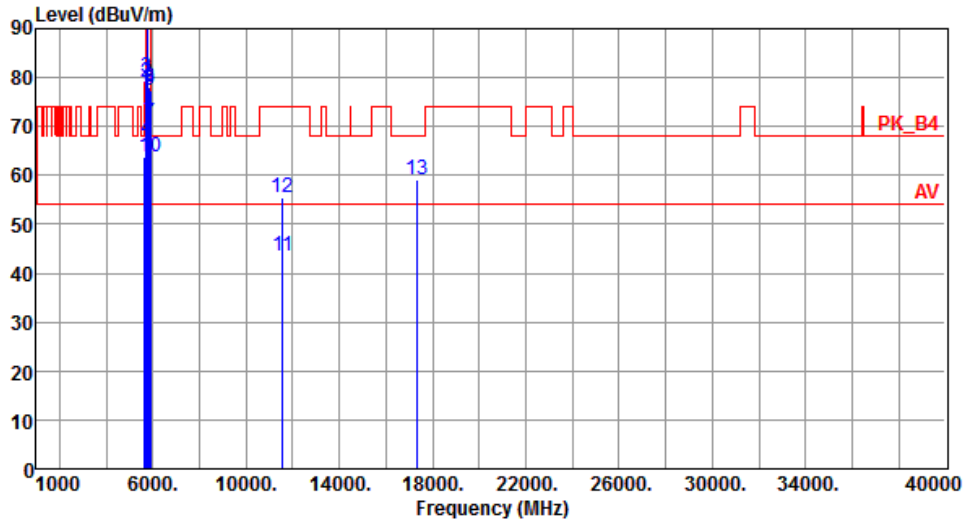
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.78	68.20	-4.42	59.05	4.73	Peak	100	145
2	5700.00	78.92	105.20	-26.28	74.11	4.81	Peak	100	145
3	5720.00	79.96	110.80	-30.84	75.12	4.84	Peak	100	145
4	5725.00	67.26	122.20	-54.94	62.42	4.84	Peak	100	145
5 *	5755.00	100.33			95.44	4.89	Average	100	145
6 *	5755.00	111.62			106.73	4.89	Peak	100	145
7	5850.00	70.65	122.20	-51.55	65.61	5.04	Peak	100	145
8	5855.00	78.12	110.80	-32.68	73.08	5.04	Peak	100	145
9	5875.00	77.38	105.20	-27.82	72.31	5.07	Peak	100	145
10	5925.00	63.78	68.20	-4.42	58.65	5.13	Peak	100	145
11	11550.00	43.34	54.00	-10.66	29.33	14.01	Average	100	258
12	11550.00	55.40	74.00	-18.60	41.39	14.01	Peak	100	258
13	17325.00	59.16	68.20	-9.04	40.99	18.17	Peak	100	286

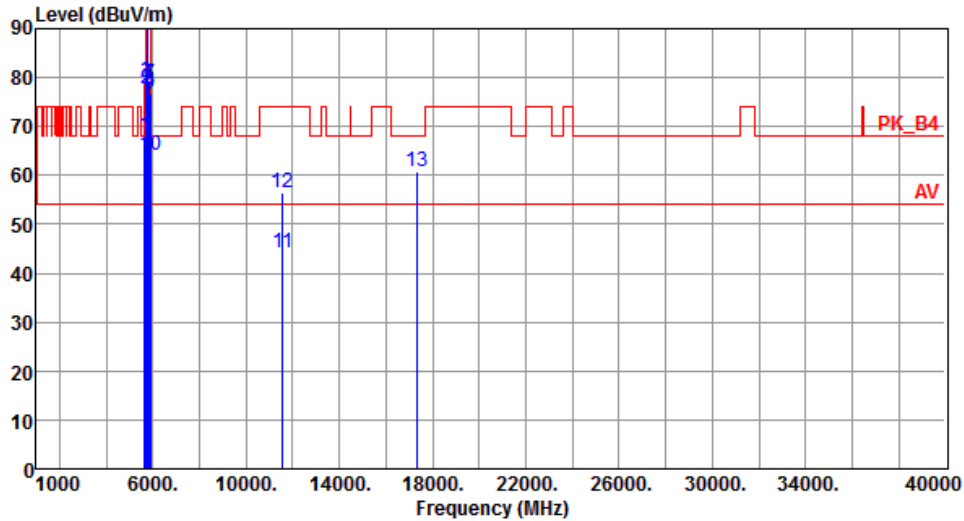
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	68.04	68.20	-0.16	63.31	4.73	Peak	100	346
2	5700.00	77.85	105.20	-27.35	73.04	4.81	Peak	100	346
3	5720.00	79.03	110.80	-31.77	74.19	4.84	Peak	100	346
4	5725.00	78.34	122.20	-43.86	73.50	4.84	Peak	100	346
5 *	5755.00	104.10			99.21	4.89	Average	100	346
6 *	5755.00	115.02			110.13	4.89	Peak	100	346
7	5850.00	78.74	122.20	-43.46	73.70	5.04	Peak	100	346
8	5855.00	77.26	110.80	-33.54	72.22	5.04	Peak	100	346
9	5875.00	76.75	105.20	-28.45	71.68	5.07	Peak	100	346
10	5925.00	63.99	68.20	-4.21	58.86	5.13	Peak	100	346
11	11550.00	44.33	54.00	-9.67	30.32	14.01	Average	100	103
12	11550.00	56.41	74.00	-17.59	42.40	14.01	Peak	100	103
13	17325.00	60.64	68.20	-7.56	42.47	18.17	Peak	100	236

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

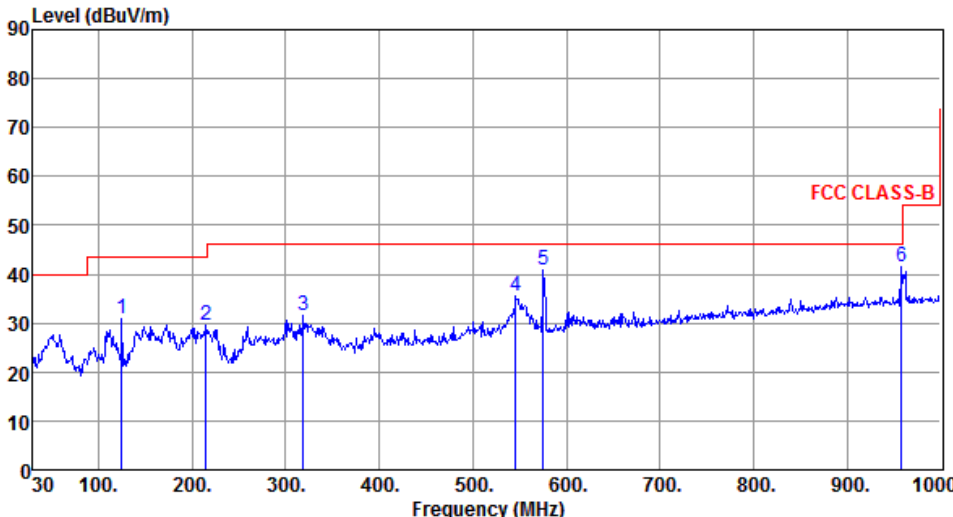
*Factor includes antenna factor , cable loss and amplifier gain

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

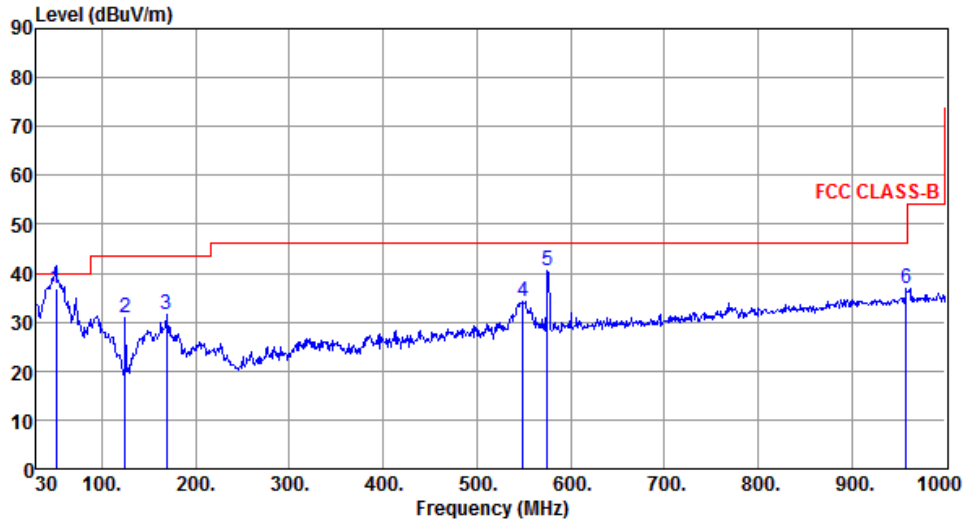
Note 3: "*" is Peak / Average value of fundamental frequency

Beamforming mode

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5785																																																																
Polarization	Horizontal																																																																		
																																																																			
	<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>1</td> <td>125.06</td> <td>30.72</td> <td>43.50</td> <td>-12.78</td> <td>40.79</td> <td>-10.07</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>2</td> <td>215.27</td> <td>29.71</td> <td>43.50</td> <td>-13.79</td> <td>40.49</td> <td>-10.78</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>319.06</td> <td>31.42</td> <td>46.00</td> <td>-14.58</td> <td>38.59</td> <td>-7.17</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>546.04</td> <td>35.62</td> <td>46.00</td> <td>-10.38</td> <td>37.44</td> <td>-1.82</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>5</td> <td>575.14</td> <td>40.85</td> <td>46.00</td> <td>-5.15</td> <td>42.05</td> <td>-1.20</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>6</td> <td>958.29</td> <td>41.50</td> <td>46.00</td> <td>-4.50</td> <td>36.51</td> <td>4.99</td> <td>Peak</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	125.06	30.72	43.50	-12.78	40.79	-10.07	Peak	---	2	215.27	29.71	43.50	-13.79	40.49	-10.78	Peak	---	3	319.06	31.42	46.00	-14.58	38.59	-7.17	Peak	---	4	546.04	35.62	46.00	-10.38	37.44	-1.82	Peak	---	5	575.14	40.85	46.00	-5.15	42.05	-1.20	Peak	---	6	958.29	41.50	46.00	-4.50	36.51	4.99	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	125.06	30.72	43.50	-12.78	40.79	-10.07	Peak	---																																																											
2	215.27	29.71	43.50	-13.79	40.49	-10.78	Peak	---																																																											
3	319.06	31.42	46.00	-14.58	38.59	-7.17	Peak	---																																																											
4	546.04	35.62	46.00	-10.38	37.44	-1.82	Peak	---																																																											
5	575.14	40.85	46.00	-5.15	42.05	-1.20	Peak	---																																																											
6	958.29	41.50	46.00	-4.50	36.51	4.99	Peak	---																																																											
<p>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).</p>																																																																			

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



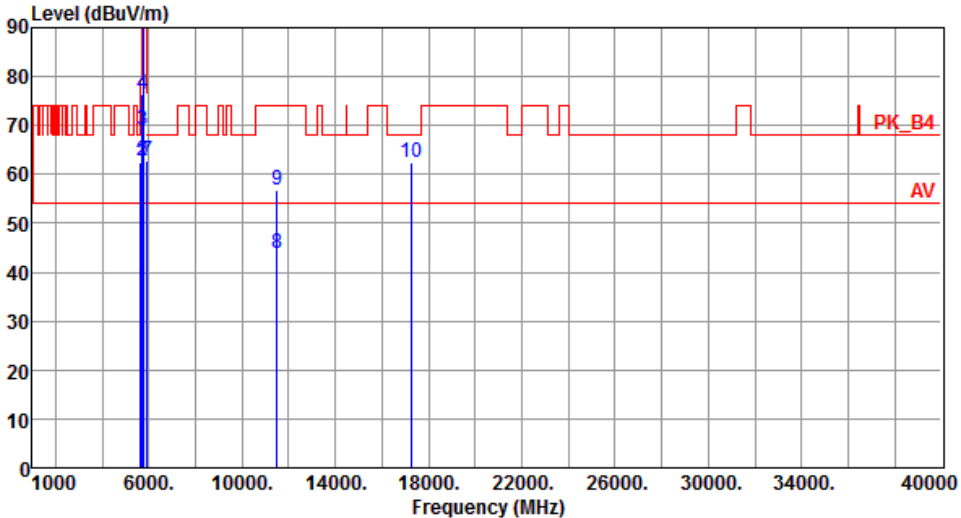
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	51.34	36.91	40.00	-3.09	44.68	-7.77	QP	100	205
2	125.06	30.99	43.50	-12.51	41.06	-10.07	Peak	---	---
3	168.71	31.71	43.50	-11.79	40.23	-8.52	Peak	---	---
4	548.95	34.34	46.00	-11.66	36.09	-1.75	Peak	---	---
5	575.14	40.66	46.00	-5.34	41.86	-1.20	Peak	---	---
6	958.29	36.88	46.00	-9.12	31.89	4.99	Peak	---	---

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

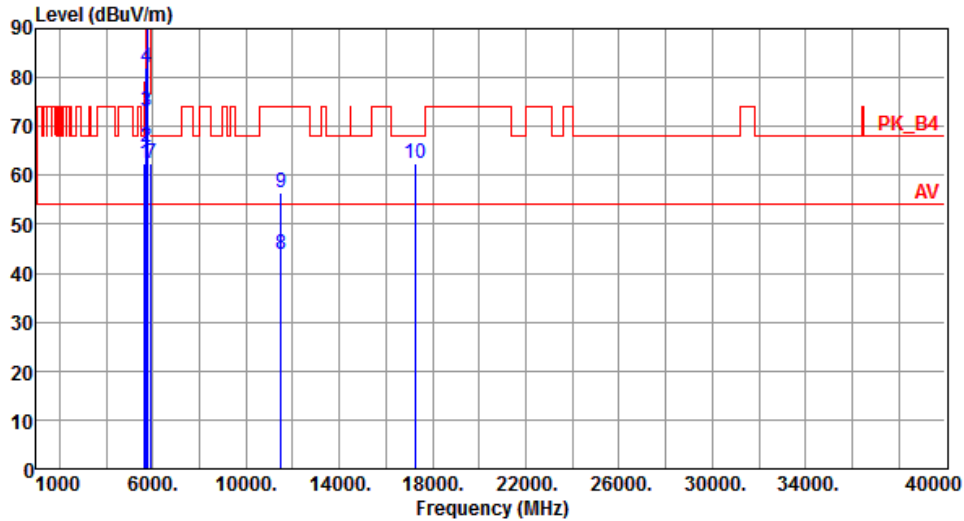
*Factor includes antenna factor , cable loss and amplifier gain

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

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

Modulation	VHT20	Test Freq. (MHz)	5745																																																																																																										
Polarization	Horizontal																																																																																																												
																																																																																																													
	<table border="1"> <thead> <tr> <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>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> </thead> <tbody> <tr> <td>1</td> <td>5650.00</td> <td>62.36</td> <td>68.20</td> <td>-5.84</td> <td>57.63</td> <td>4.73</td> <td>Peak</td> <td>121 34</td> </tr> <tr> <td>2</td> <td>5700.00</td> <td>62.85</td> <td>105.20</td> <td>-42.35</td> <td>58.04</td> <td>4.81</td> <td>Peak</td> <td>121 34</td> </tr> <tr> <td>3</td> <td>5720.00</td> <td>69.24</td> <td>110.80</td> <td>-41.56</td> <td>64.40</td> <td>4.84</td> <td>Peak</td> <td>121 34</td> </tr> <tr> <td>4</td> <td>5725.00</td> <td>76.51</td> <td>122.20</td> <td>-45.69</td> <td>71.67</td> <td>4.84</td> <td>Peak</td> <td>121 34</td> </tr> <tr> <td>5 *</td> <td>5745.00</td> <td>112.41</td> <td></td> <td></td> <td>107.54</td> <td>4.87</td> <td>Average</td> <td>121 34</td> </tr> <tr> <td>6 *</td> <td>5745.00</td> <td>121.93</td> <td></td> <td></td> <td>117.06</td> <td>4.87</td> <td>Peak</td> <td>121 34</td> </tr> <tr> <td>7</td> <td>5925.00</td> <td>62.62</td> <td>68.20</td> <td>-5.58</td> <td>57.49</td> <td>5.13</td> <td>Peak</td> <td>121 34</td> </tr> <tr> <td>8</td> <td>11490.00</td> <td>43.93</td> <td>54.00</td> <td>-10.07</td> <td>29.82</td> <td>14.11</td> <td>Average</td> <td>100 50</td> </tr> <tr> <td>9</td> <td>11490.00</td> <td>56.80</td> <td>74.00</td> <td>-17.20</td> <td>42.69</td> <td>14.11</td> <td>Peak</td> <td>100 50</td> </tr> <tr> <td>10</td> <td>17235.00</td> <td>62.30</td> <td>68.20</td> <td>-5.90</td> <td>44.36</td> <td>17.94</td> <td>Peak</td> <td>371 310</td> </tr> </tbody> </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	5650.00	62.36	68.20	-5.84	57.63	4.73	Peak	121 34	2	5700.00	62.85	105.20	-42.35	58.04	4.81	Peak	121 34	3	5720.00	69.24	110.80	-41.56	64.40	4.84	Peak	121 34	4	5725.00	76.51	122.20	-45.69	71.67	4.84	Peak	121 34	5 *	5745.00	112.41			107.54	4.87	Average	121 34	6 *	5745.00	121.93			117.06	4.87	Peak	121 34	7	5925.00	62.62	68.20	-5.58	57.49	5.13	Peak	121 34	8	11490.00	43.93	54.00	-10.07	29.82	14.11	Average	100 50	9	11490.00	56.80	74.00	-17.20	42.69	14.11	Peak	100 50	10	17235.00	62.30	68.20	-5.90	44.36	17.94	Peak	371 310
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																																																					
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																																																																					
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5 *	5745.00	112.41			107.54	4.87	Average	121 34																																																																																																					
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7	5925.00	62.62	68.20	-5.58	57.49	5.13	Peak	121 34																																																																																																					
8	11490.00	43.93	54.00	-10.07	29.82	14.11	Average	100 50																																																																																																					
9	11490.00	56.80	74.00	-17.20	42.69	14.11	Peak	100 50																																																																																																					
10	17235.00	62.30	68.20	-5.90	44.36	17.94	Peak	371 310																																																																																																					
<p>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:"*" is Peak / Average value of fundamental frequency</p>																																																																																																													

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.41	68.20	-5.79	57.68	4.73	Peak	123	347
2	5700.00	65.88	105.20	-39.32	61.07	4.81	Peak	123	347
3	5720.00	73.15	110.80	-37.65	68.31	4.84	Peak	123	347
4	5725.00	81.93	122.20	-40.27	77.09	4.84	Peak	123	347
5 *	5745.00	113.97			109.10	4.87	Average	123	347
6 *	5745.00	123.95			119.08	4.87	Peak	123	347
7	5925.00	62.46	68.20	-5.74	57.33	5.13	Peak	123	347
8	11490.00	43.95	54.00	-10.05	29.84	14.11	Average	100	56
9	11490.00	56.47	74.00	-17.53	42.36	14.11	Peak	100	56
10	17235.00	62.54	68.20	-5.66	44.60	17.94	Peak	385	230

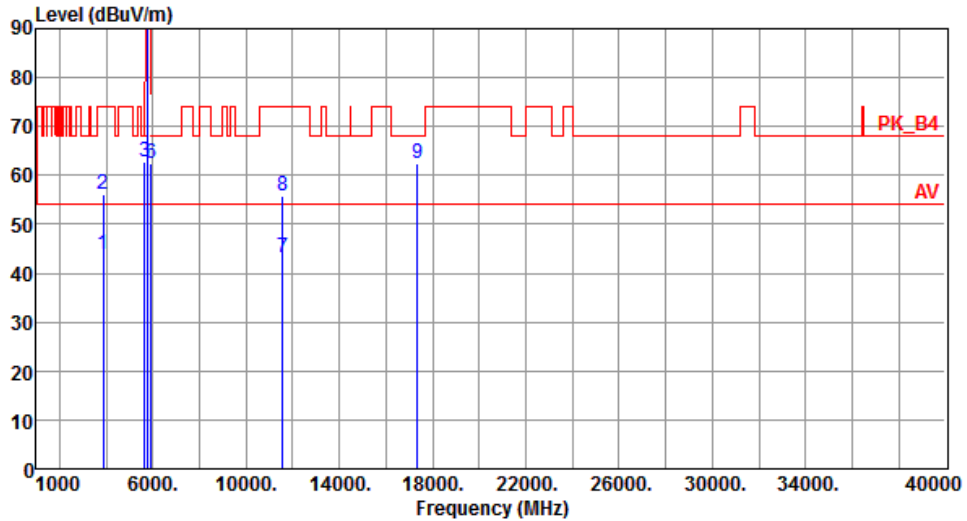
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	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	43.74	54.00	-10.26	43.26	0.48	Average	100	2
2	3856.66	56.28	74.00	-17.72	55.80	0.48	Peak	100	2
3	5650.00	62.61	68.20	-5.59	57.88	4.73	Peak	100	101
4 *	5785.00	112.94			108.00	4.94	Average	100	101
5 *	5785.00	124.02			119.08	4.94	Peak	100	101
6	5925.00	62.38	68.20	-5.82	57.25	5.13	Peak	100	101
7	11570.00	43.20	54.00	-10.80	29.22	13.98	Average	100	16
8	11570.00	55.82	74.00	-18.18	41.84	13.98	Peak	100	16
9	17355.00	62.49	68.20	-5.71	44.24	18.25	Peak	369	18

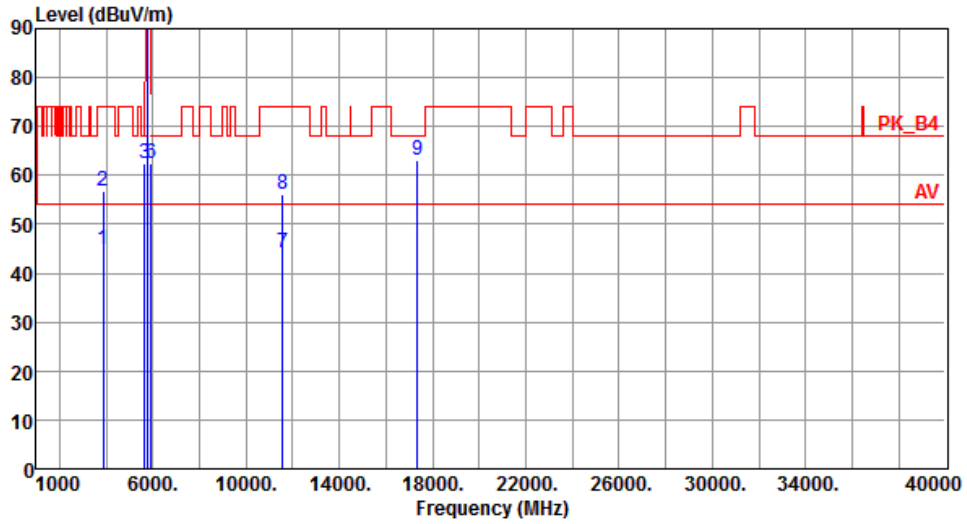
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	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	44.71	54.00	-9.29	44.23	0.48	Average	100	307
2	3856.66	56.83	74.00	-17.17	56.35	0.48	Peak	100	307
3	5650.00	62.53	68.20	-5.67	57.80	4.73	Peak	100	95
4 *	5785.00	113.21			108.27	4.94	Average	100	95
5 *	5785.00	123.17			118.23	4.94	Peak	100	95
6	5925.00	62.56	68.20	-5.64	57.43	5.13	Peak	100	95
7	11570.00	44.21	54.00	-9.79	30.23	13.98	Average	100	38
8	11570.00	56.21	74.00	-17.79	42.23	13.98	Peak	100	38
9	17355.00	63.05	68.20	-5.15	44.80	18.25	Peak	355	213

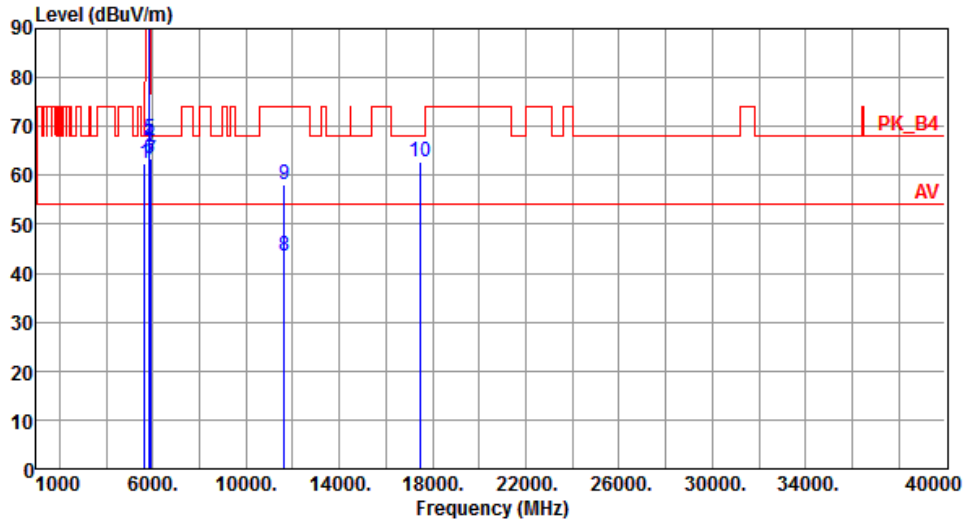
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.48	68.20	-5.72	57.75	4.73	Peak	130	104
2 *	5825.00	109.57			104.58	4.99	Average	130	104
3 *	5825.00	119.18			114.19	4.99	Peak	130	104
4	5850.00	66.58	122.20	-55.62	61.54	5.04	Peak	130	104
5	5855.00	67.44	110.80	-43.36	62.40	5.04	Peak	130	104
6	5875.00	63.47	105.20	-41.73	58.40	5.07	Peak	130	104
7	5925.00	63.22	68.20	-4.98	58.09	5.13	Peak	130	104
8	11650.00	43.64	54.00	-10.36	29.81	13.83	Average	100	20
9	11650.00	58.06	74.00	-15.94	44.23	13.83	Peak	383	20
10	17475.00	62.80	68.20	-5.40	44.25	18.55	Peak	100	20

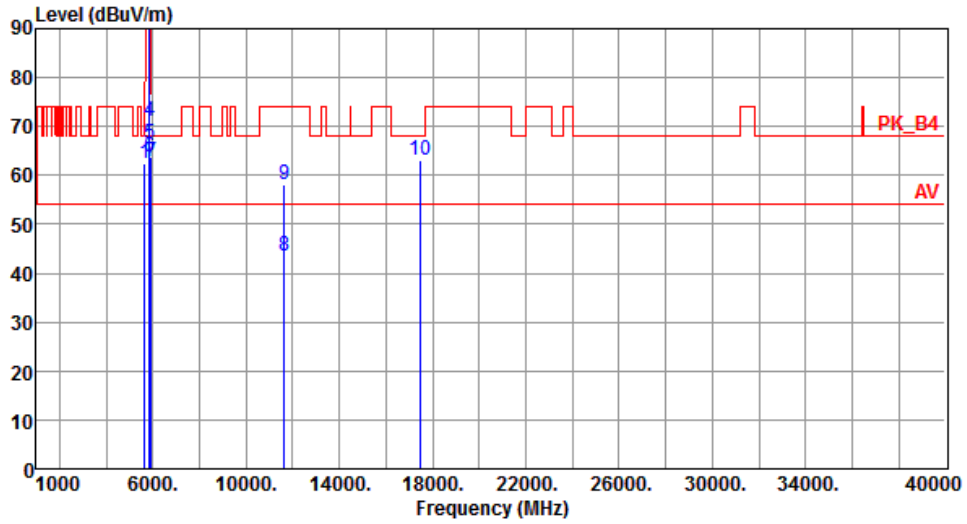
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.38	68.20	-5.82	57.65	4.73	Peak	100	343
2	* 5825.00	113.71			108.72	4.99	Average	100	343
3	* 5825.00	124.89			119.90	4.99	Peak	100	343
4	5850.00	71.21	122.20	-50.99	66.17	5.04	Peak	100	343
5	5855.00	66.42	110.80	-44.38	61.38	5.04	Peak	100	343
6	5875.00	63.65	105.20	-41.55	58.58	5.07	Peak	100	343
7	5925.00	62.65	68.20	-5.55	57.52	5.13	Peak	100	343
8	11650.00	43.41	54.00	-10.59	29.58	13.83	Average	100	51
9	11650.00	58.04	74.00	-15.96	44.21	13.83	Peak	100	51
10	17475.00	63.07	68.20	-5.13	44.52	18.55	Peak	375	228

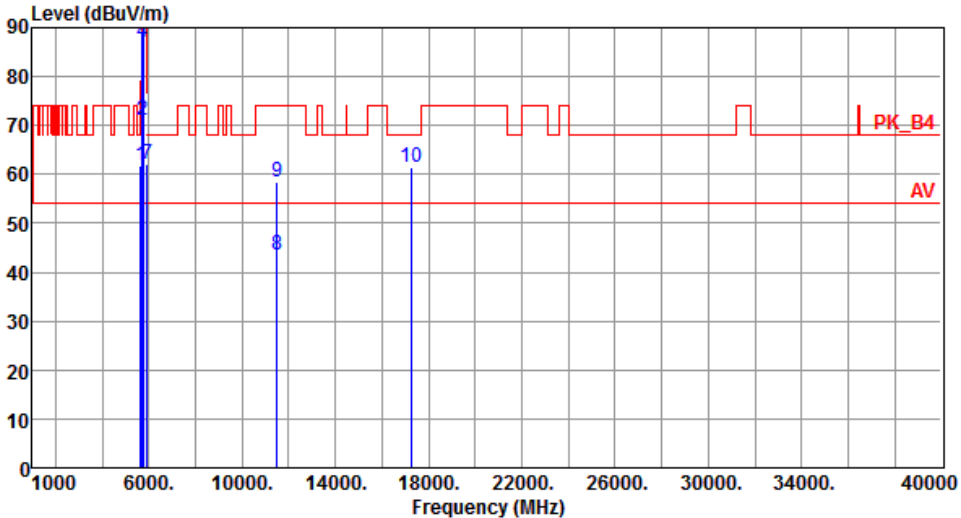
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

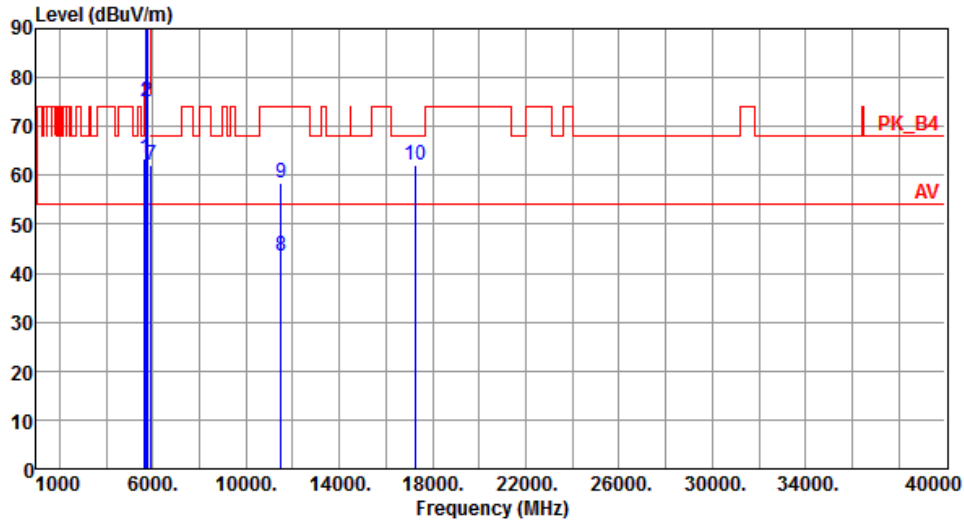
Note 3: "*" is Peak / Average value of fundamental frequency

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

Modulation	VHT40	Test Freq. (MHz)	5755						
Polarization	Horizontal								
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5650.00	61.71	68.20	-6.49	56.98	4.73	Peak	100	95
2	5700.00	71.06	105.20	-34.14	66.25	4.81	Peak	100	95
3	5720.00	88.87	110.80	-21.93	84.03	4.84	Peak	100	95
4	5725.00	87.09	122.20	-35.11	82.25	4.84	Peak	100	95
5 *	5755.00	107.97			103.08	4.89	Average	100	95
6 *	5755.00	118.74			113.85	4.89	Peak	100	95
7	5925.00	62.10	68.20	-6.10	56.97	5.13	Peak	100	95
8	11510.00	43.63	54.00	-10.37	29.54	14.09	Average	100	27
9	11510.00	58.33	74.00	-15.67	44.24	14.09	Peak	100	27
10	17265.00	61.42	68.20	-6.78	43.40	18.02	Peak	386	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).
 Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.27	68.20	-4.93	58.54	4.73	Peak	100	346
2	5700.00	74.99	105.20	-30.21	70.18	4.81	Peak	100	346
3	5720.00	91.09	110.80	-19.71	86.25	4.84	Peak	100	346
4	5725.00	95.57	122.20	-26.63	90.73	4.84	Peak	100	346
5 *	5755.00	110.64			105.75	4.89	Average	100	346
6 *	5755.00	122.24			117.35	4.89	Peak	100	346
7	5925.00	62.21	68.20	-5.99	57.08	5.13	Peak	100	346
8	11510.00	43.63	54.00	-10.37	29.54	14.09	Average	100	36
9	11510.00	58.29	74.00	-15.71	44.20	14.09	Peak	100	36
10	17265.00	62.12	68.20	-6.08	44.10	18.02	Peak	356	167

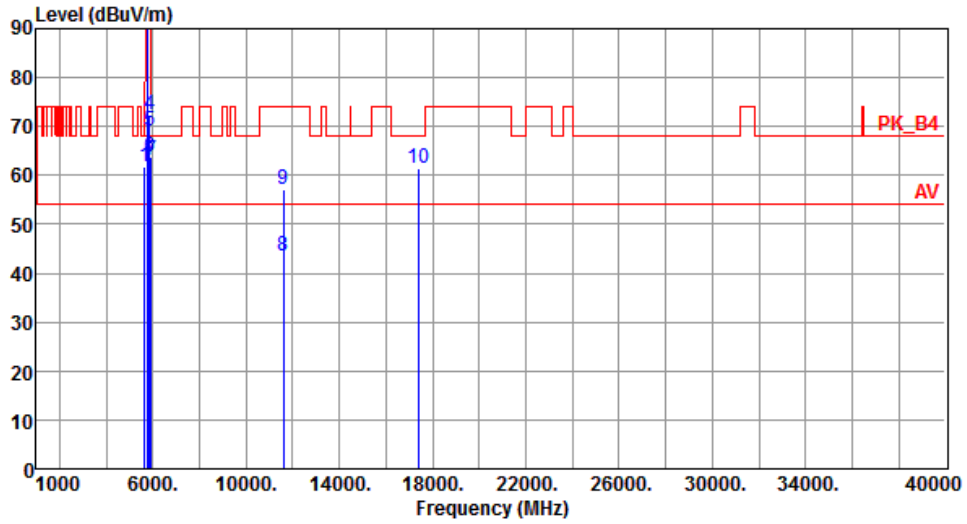
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.89	68.20	-6.31	57.16	4.73	Peak	100	100
2 *	5795.00	108.88			103.93	4.95	Average	100	100
3 *	5795.00	119.79			114.84	4.95	Peak	100	100
4	5850.00	72.36	122.20	-49.84	67.32	5.04	Peak	100	100
5	5855.00	69.24	110.80	-41.56	64.20	5.04	Peak	100	100
6	5875.00	63.81	105.20	-41.39	58.74	5.07	Peak	100	100
7	5925.00	62.96	68.20	-5.24	57.83	5.13	Peak	376	15
8	11590.00	43.41	54.00	-10.59	29.47	13.94	Average	100	23
9	11590.00	57.23	74.00	-16.77	43.29	13.94	Peak	100	23
10	17385.00	61.54	68.20	-6.66	43.21	18.33	Peak	376	15

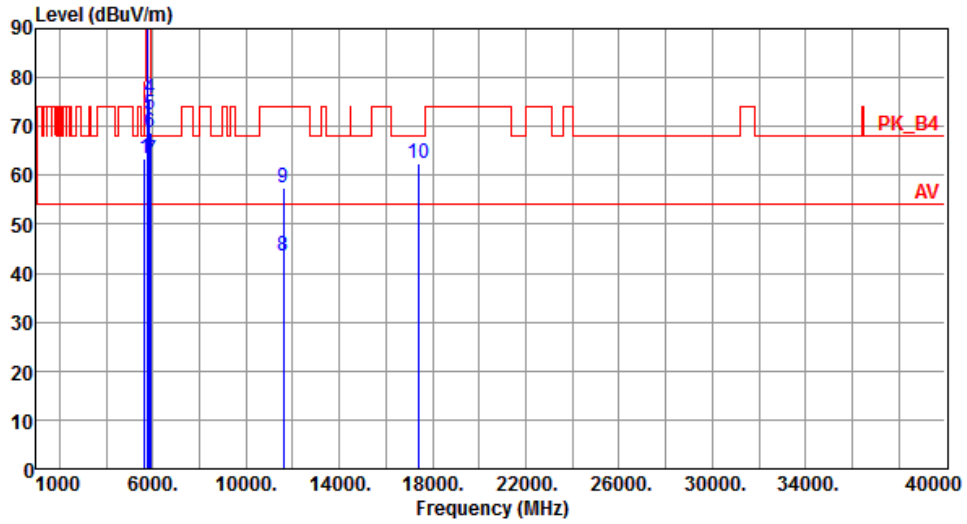
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.31	68.20	-4.89	58.58	4.73	Peak	112	11
2 *	5795.00	110.96			106.01	4.95	Average	112	11
3 *	5795.00	122.24			117.29	4.95	Peak	112	11
4	5850.00	75.76	122.20	-46.44	70.72	5.04	Peak	112	11
5	5855.00	72.49	110.80	-38.31	67.45	5.04	Peak	112	11
6	5875.00	68.86	105.20	-36.34	63.79	5.07	Peak	112	11
7	5925.00	62.97	68.20	-5.23	57.84	5.13	Peak	112	11
8	11590.00	43.58	54.00	-10.42	29.64	13.94	Average	100	29
9	11590.00	57.51	74.00	-16.49	43.57	13.94	Peak	100	29
10	17385.00	62.43	68.20	-5.77	44.10	18.33	Peak	381	228

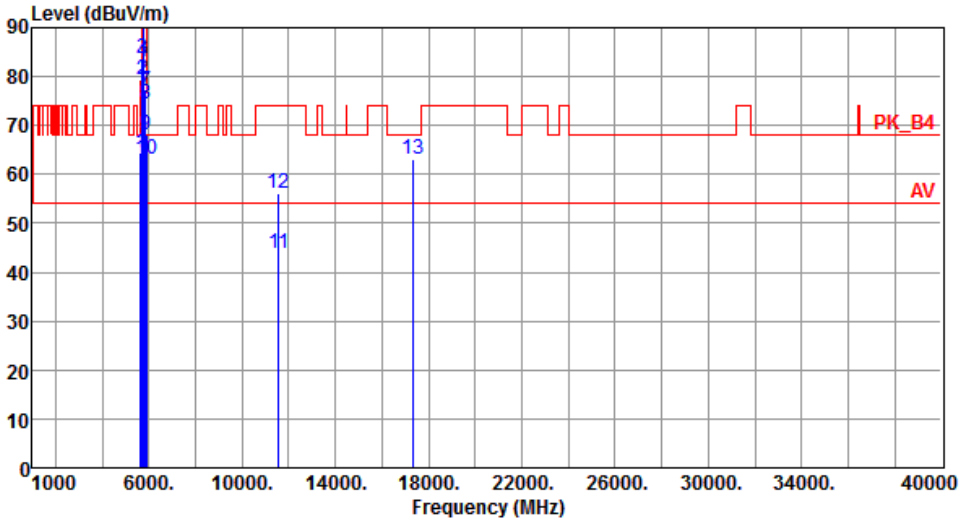
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

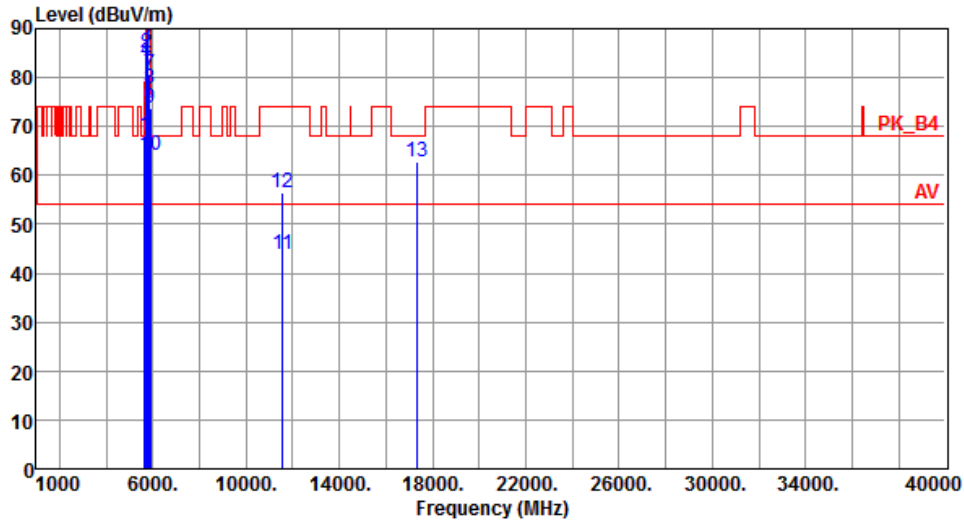
Note 3: "*" is Peak / Average value of fundamental frequency

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

Modulation	VHT80	Test Freq. (MHz)	5775						
Polarization	Horizontal								
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	64.49	68.20	-3.71	59.76	4.73	Peak	240	0
2	5700.00	79.43	105.20	-25.77	74.62	4.81	Peak	240	0
3	5720.00	83.81	110.80	-26.99	78.97	4.84	Peak	240	0
4	5725.00	83.11	122.20	-39.09	78.27	4.84	Peak	240	0
5 *	5775.00	103.72			98.80	4.92	Average	240	0
6 *	5775.00	115.43			110.51	4.92	Peak	240	0
7	5850.00	77.09	122.20	-45.11	72.05	5.04	Peak	240	0
8	5855.00	74.26	110.80	-36.54	69.22	5.04	Peak	240	0
9	5875.00	68.18	105.20	-37.02	63.11	5.07	Peak	240	0
10	5925.00	63.12	68.20	-5.08	57.99	5.13	Peak	240	0
11	11550.00	43.68	54.00	-10.32	29.67	14.01	Average	100	312
12	11550.00	56.11	74.00	-17.89	42.10	14.01	Peak	100	312
13	17325.00	63.01	68.20	-5.19	44.84	18.17	Peak	360	347

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: "*" is Peak / Average value of fundamental frequency

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	68.05	68.20	-0.15	63.32	4.73	Peak	100	345
2	5700.00	84.99	105.20	-20.21	80.18	4.81	Peak	100	345
3	5720.00	86.20	110.80	-24.60	81.36	4.84	Peak	100	345
4	5725.00	83.50	122.20	-38.70	78.66	4.84	Peak	100	345
5 *	5775.00	104.25			99.33	4.92	Average	100	345
6 *	5775.00	116.74			111.82	4.92	Peak	100	345
7	5850.00	80.64	122.20	-41.56	75.60	5.04	Peak	100	345
8	5855.00	77.60	110.80	-33.20	72.56	5.04	Peak	100	345
9	5875.00	73.77	105.20	-31.43	68.70	5.07	Peak	100	345
10	5925.00	64.20	68.20	-4.00	59.07	5.13	Peak	100	345
11	11550.00	43.97	54.00	-10.03	29.96	14.01	Average	100	335
12	11550.00	56.33	74.00	-17.67	42.32	14.01	Peak	100	335
13	17325.00	62.91	68.20	-5.29	44.74	18.17	Peak	365	136

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: "*" is Peak / Average value of fundamental frequency

3.6 Frequency Stability

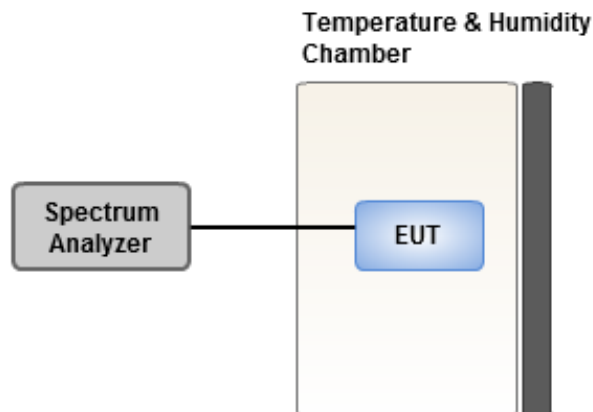
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Frequency: 5200 MHz	Frequency Drift (ppm)				
	Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax		5.76	5.91	5.55	5.39
T20°CVmin		5.29	5.37	5.65	6.05
T50°CVnom		5.32	6.27	5.31	5.69
T40°CVnom		5.70	5.96	5.73	6.26
T30°CVnom		5.96	6.03	6.07	5.94
T20°CVnom		6.08	5.59	5.43	5.96
T10°CVnom		5.48	5.43	6.28	5.47
T0°CVnom		6.16	5.88	6.03	5.62
T-10°CVnom		6.11	5.46	5.42	5.82
T-20°CVnom		5.49	6.40	6.32	5.73
T-30°CVnom		5.85	6.04	5.69	5.17
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102	
Tnom [°C]: 20		Tmax [°C]: 50		Tmin [°C]: -30	

Frequency: 5785 MHz	Frequency Drift (ppm)				
	Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax		5.54	5.53	4.84	4.84
T20°CVmin		5.29	4.74	5.46	5.04
T50°CVnom		5.12	4.86	4.95	5.41
T40°CVnom		4.78	5.62	5.45	5.24
T30°CVnom		5.17	4.67	4.92	4.98
T20°CVnom		4.93	5.16	4.96	5.03
T10°CVnom		5.25	4.80	5.09	5.48
T0°CVnom		5.08	4.96	5.04	5.07
T-10°CVnom		5.03	5.49	5.07	5.32
T-20°CVnom		5.71	5.48	4.52	5.30
T-30°CVnom		5.42	5.36	5.14	4.72
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102	
Tnom [°C]: 20		Tmax [°C]: 50		Tmin [°C]: -30	

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>.

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Kwei Shan Site II

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

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

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