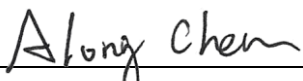


FCC C2PC Test Report

FCC ID : 2ABLK-844FX-X
Equipment : GigaCenter
Model No. : 844FB-1 ; 844F-1 ; 844FB-2 ; 844F-2
(refer to item 1.1.1 for more details)
Brand Name : Calix Inc
Applicant : Calix Inc
Address : 1035 N. McDowell Blvd. Petaluma, CA 94954
Standard : 47 CFR FCC Part 15.407
Received Date : Jan. 10, 2017
Tested Date : Feb. 08 ~ Mar. 07, 2017

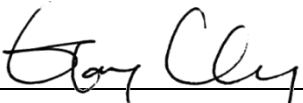
We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval 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
FR712305-01AN	Rev. 01	Initial issue	Apr. 17, 2017

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.538MHz 40.96 (Margin -5.04dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5660.00MHz 52.99 (Margin -1.01dB) – AV [dBuV/m at 3m]: 5725.00MHz 72.99 (Margin -1.01dB) – AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: Non-beamforming mode 5250~5350MHz: 23.80 5470~5725MHz: 23.89 Beamforming mode 5250~5350MHz: 23.50 5470~5725MHz: 23.69	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

This report is issued as a FCC Class II Permissive Change. The modification is only concerned with adding 5250~5350MHz and 5470~5725 MHz band by software setting.

The device has 4 configurations as below table.

RF function is identical to each configuration. Differences between 4 configurations are only non-RF function by depopulation of components without PCB Modifications.

Model Name	844FB-1	844FB-2	844F-1	844F-2
LAN / WAN function	4 LAN ports	4 LAN ports 1WAN port	4 LAN ports	4 LAN ports 1WAN port
G.fast function	bonding G.fast	bonding G.fast	Single G.fast	Single G.fast
Power Supply	1. Adapter 2. UPS	Adapter (DC jack)	1. Adapter 2. UPS	Adapter (DC jack)
Housing Type	Housing 1	Housing 2	Housing 1	Housing 2
Frequency band (GHz)	2.412 ~ 2.462 / 5.18 ~ 5.24 / 5.26 ~ 5.32 / 5.5 ~ 5.72 / 5.745 ~ 5.825			
Beam forming mode	Supported			
Master or Client	Master			
USB function	USB3.0			
VOIP function	VOIP (FXS)			

Note: Four models (844FB-1, 844FB-2, 844F-1 and 844F-2) had been covered during the pretest, and found that 844F-1 was the worst case and was selected for final test.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5250-5350 5470-5725	a	5260-5320 5500-5720	52-64 [4] 100-144 [12]	4	6-54 Mbps
5250-5350 5470-5725	n (HT20)	5260-5320 5500-5720	52-64 [4] 100-144 [12]	4	MCS 0-31
5250-5350 5470-5725	n (HT40)	5270-5310 5510-5710	54-62 [2] 102-142 [6]	4	MCS 0-31
5250-5350 5470-5725	ac (VHT20)	5260-5320 5500-5720	52-64 [4] 100-144 [12]	4	MCS 0-9
5250-5350 5470-5725	ac (VHT40)	5270-5310 5510-5710	54-62 [2] 102-142 [6]	4	MCS 0-9
5250-5350 5470-5725	ac (VHT80)	5290 5530-5690	58 [1] 106-138 [3]	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: 802.11n/ac supports beamforming mode.

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)	
				5250~5350	5470~5725
1	PCB antenna	Dipole	IPEX	-0.8	-0.5
2	PCB antenna	Dipole	IPEX	-0.8	-0.5
3	PCB antenna	Dipole	IPEX	-0.8	-0.5
4	PCB antenna	Dipole	IPEX	-0.8	-0.5

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from AC adapter 12Vdc from UPS
--------------------------	---

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: MASS POWER Model: NBS65A120410M2 Power Rating: I/P: 100-240Vac, 50/60Hz, 1.5A O/P: 12Vdc, 4.1A Power Line: DC 1.2m non-shielded without core AC 1.5m non-shielded without core
2	UPS	Brand: Cyber Power Model: DTC50U12V3-G Power Rating: I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 12Vdc, 50W Power Line: DC 1.2m non-shielded without core AC 2.45m non-shielded without core

1.1.5 Channel List

802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
52	5260	54	5270
56	5280	62	5310
60	5300	102	5510
64	5320	118	5590
100	5500	134	5670
104	5520	142	5710
108	5540	VHT80	
112	5560	58	5290
116	5580	106	5530
120	5600	122	5610
124	5620	138	5690
128	5640	---	---
132	5660	---	---
136	5680	---	---
140	5700	---	---
144	5720	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	Non-beamforming: MTool, Version: 3.0.0.1 Beamforming: LanTest20, Version: 2.0.0.2				
Duty Cycle and Duty Factor	Mode	Non-Beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11a	99.31%	0.03	---	---
	HT20	99.26%	0.03	---	---
	HT40	98.24%	0.08	---	---
	VHT20	99.26%	0.03	99.57%	0.02
	VHT40	98.24%	0.08	98.25%	0.08
	VHT80	99.24%	0.03	96.82%	0.14

1.1.7 Power Setting

For Frequency band 5250~5350 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5260	64	---
11a	5300	64	---
11a	5320	64	---
HT20	5260	64	64
HT20	5300	64	64
HT20	5320	64	64
HT40	5270	68	68
HT40	5310	68	68
VHT20	5260	64	64
VHT20	5300	64	64
VHT20	5320	64	64
VHT40	5270	68	68
VHT40	5310	68	68
VHT80	5290	68	64

For Frequency band 5470~5725 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5500	64	---
11a	5580	64	---
11a	5700	64	---
HT20	5500	64	64
HT20	5580	64	64
HT20	5700	64	64
HT40	5510	64	64
HT40	5590	68	68
HT40	5670	68	68
VHT20	5500	64	64
VHT20	5580	64	64
VHT20	5700	64	64
VHT40	5510	64	64
VHT40	5590	68	68
VHT40	5670	68	68
VHT80	5530	60	60
VHT80	5610	68	68

Channel that extends across the 5.725 GHz boundary

For Frequency band 5470~5725 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5720	64	---
HT20	5720	64	64
HT40	5710	68	68
VHT20	5720	64	64
VHT40	5710	68	68
VHT80	5690	68	68

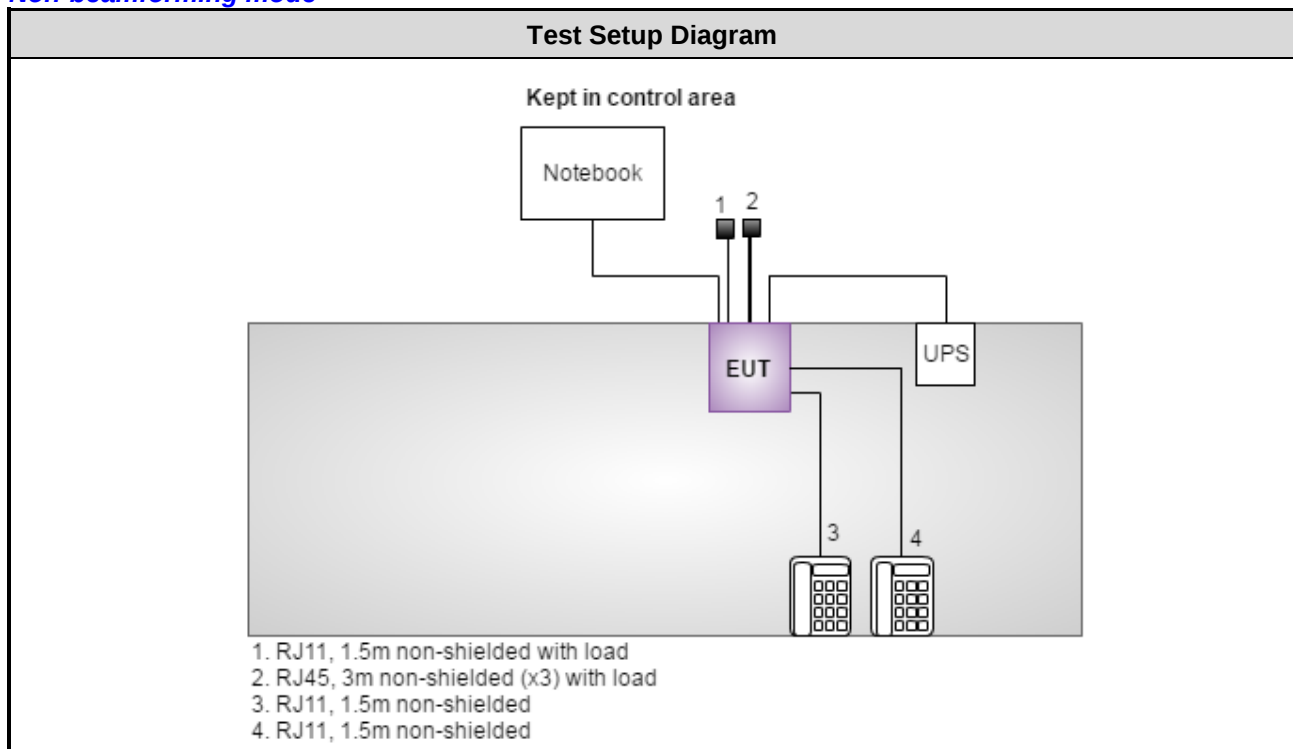
1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6430	DoC	RJ45, 10m non-shielded.
2	Telephone	HTT	HTT-806	---	RJ11, 1.5m non-shielded
3	Telephone	HTT	HTT-806	---	RJ11, 1.5m non-shielded
4	Load	ICC	---	---	RJ45, 1m(x3) non-shielded.
5	Load	ICC	---	---	RJ11, 1.5m non-shielded.
6	Client	ASUS	PCE-AC88	MSQ-PCIE 0U00	---

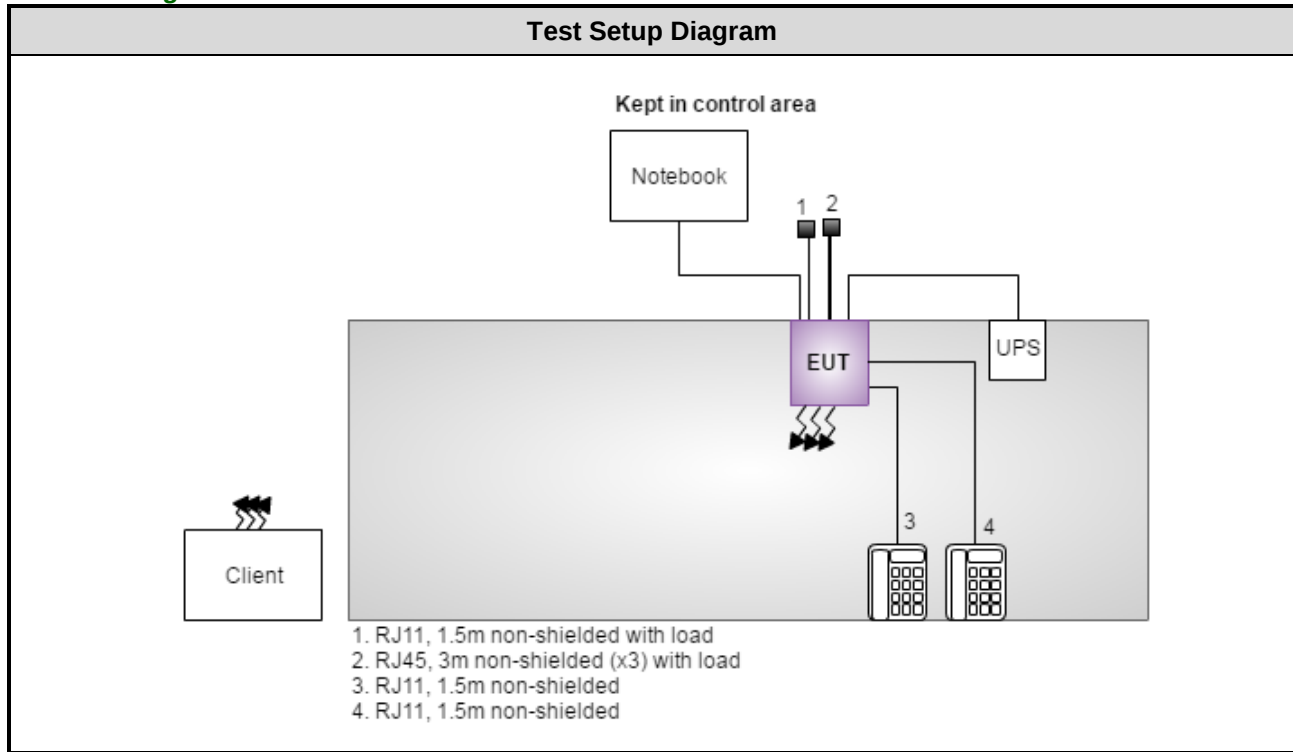
Note: No. 6 was supplied by applicant.

1.3 Test Setup Chart

Non-beamforming mode



Beamforming mode



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Dec. 21, 2016	Dec. 20, 2017
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 08, 2016	Nov. 07, 2017
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 20, 2016	Dec. 19, 2017
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)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 25, 2016	Nov. 24, 2017
Receiver	R&S	ESR3	101658	Nov. 24, 2016	Nov. 23, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 04, 2016	Aug. 03, 2017
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 21, 2016	Dec. 20, 2017
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 09, 2016	Dec. 08, 2017
Preamplifier	EMC	EMC02325	980225	Aug. 05, 2016	Aug. 04, 2017
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2016	Oct. 05, 2017
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 09, 2016	Dec. 08, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 09, 2016	Dec. 08, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 09, 2016	Dec. 08, 2017
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	16052	Dec. 09, 2016	Dec. 08, 2017
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 09, 2016	Dec. 08, 2017
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 09, 2016	Dec. 08, 2017
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40	101486	Nov. 15, 2016	Nov. 14, 2017
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.

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 v01r03

FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01

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	17°C / 59%	David Chiu
Radiated Emissions	03CH01-WS	22°C / 62-64%	Vincent Yeh Kevin Lee
RF Conducted	TH01-WS	22°C / 64%	Brad Wu

- FCC Designation.: 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 5250-5350 MHz, 5470-5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	VHT40	5310	MCS 0	---
Radiated Emissions ≤1GHz	VHT40	5310	MCS 0	---
RF Output Power	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	---
	HT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	HT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5610 / 5690	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	---
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5610 / 5690	MCS 0	
Frequency Stability	Un-modulation	5300	---	---
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report. 2. Two power supply (Adapter and UPS) had been covered during the pretest, and found that conducted emissions with adapter and radiated Emissions with UPS were the worst case for final test.				

Beamforming mode

For Frequency band 5250-5350 MHz, 5470-5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	VHT40	5310	MCS 0	---
Radiated Emissions ≤1GHz	VHT40	5310	MCS 0	---
RF Output Power	HT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	---
	HT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5610 / 5690	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	---
	VHT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report. 2. Two power supply (Adapter and UPS) had been covered during the pretest, and found that conducted emissions with adapter and radiated Emissions with UPS were the worst case for final test.				

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

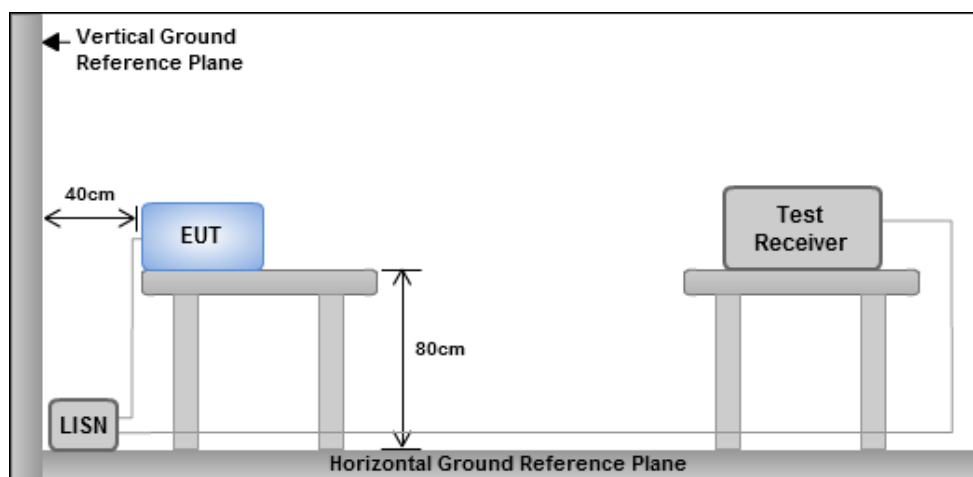
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

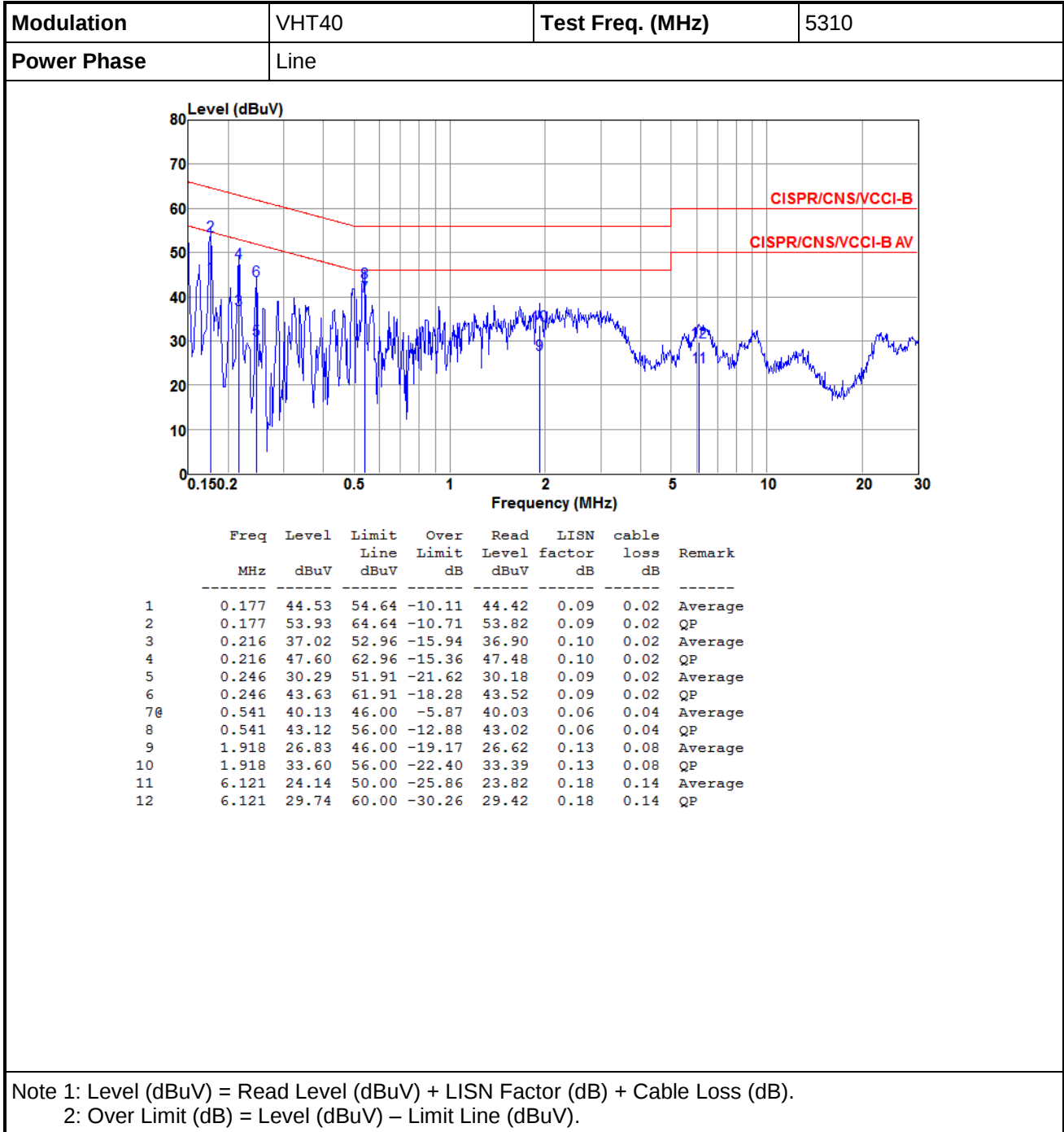
3.1.3 Test Setup

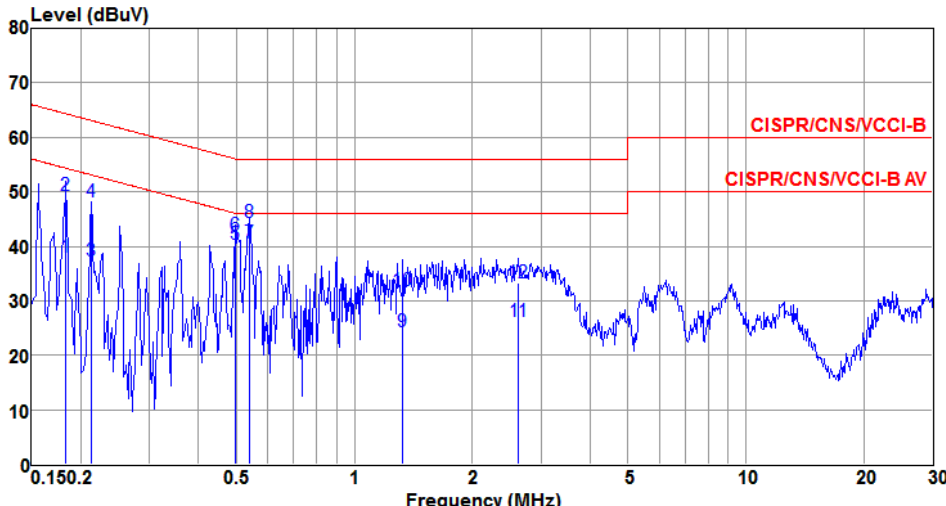


- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

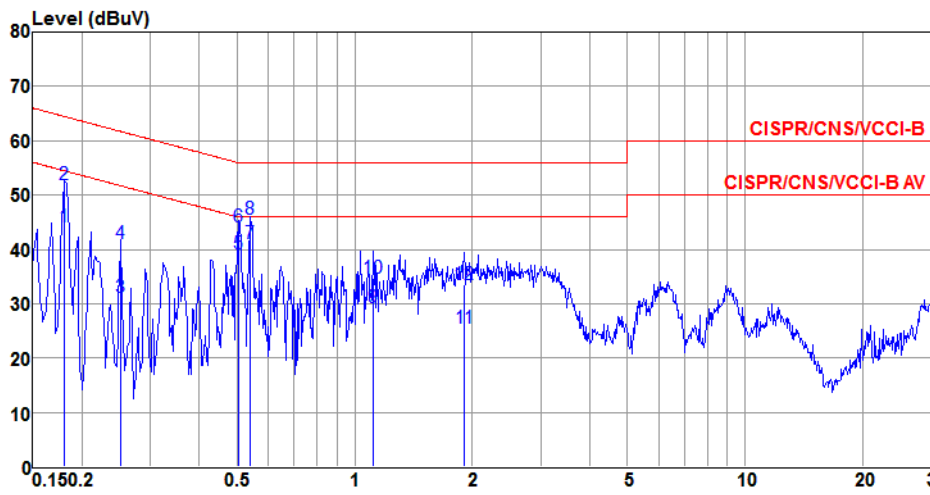
Non- beamforming mode



Modulation	VHT40	Test Freq. (MHz)	5310																																																																																																																																							
Power Phase	Neutral																																																																																																																																									
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3.2 Emission Bandwidth

3.2.1 Test Procedures

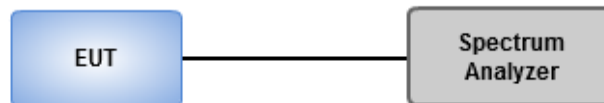
26dB Bandwidth

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

3.2.2 Test Setup

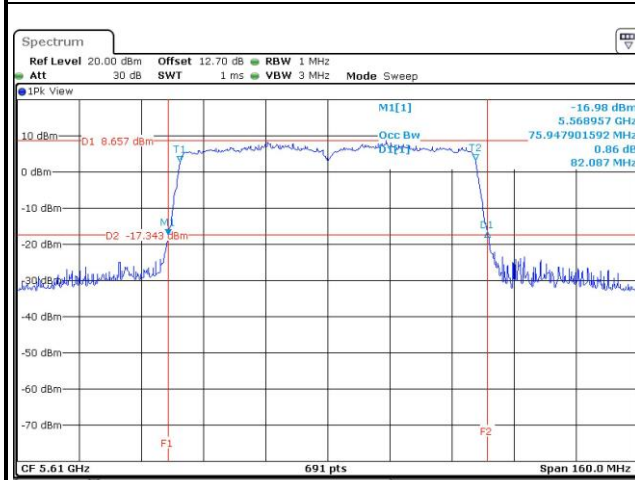


3.2.3 Test Result of Emission Bandwidth

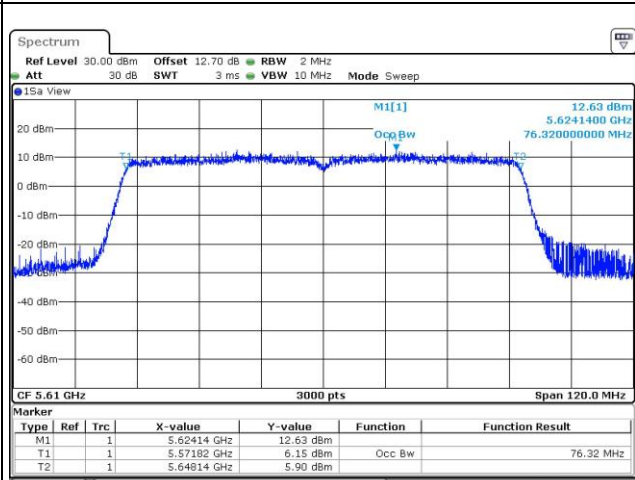
Non-beamforming mode

Emission Bandwidth											
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	4	5260	21.74	21.51	21.68	21.51	17.04	16.99	16.96	16.85	24.00
11a	4	5300	21.74	21.39	21.62	21.51	17.03	17.01	16.97	16.91	24.00
11a	4	5320	21.68	21.45	21.62	21.39	17.01	16.98	16.90	16.84	24.00
VHT20	4	5260	22.14	21.62	21.57	21.62	18.11	17.93	18.00	17.97	24.00
VHT20	4	5300	21.62	21.68	21.74	21.80	18.12	17.95	18.02	17.97	24.00
VHT20	4	5320	21.91	21.68	21.80	21.68	18.10	17.94	17.97	17.93	24.00
VHT40	4	5270	41.04	40.58	40.70	40.58	36.62	36.68	36.56	36.64	24.00
VHT40	4	5310	40.81	40.70	40.81	40.46	36.60	36.68	36.48	36.60	24.00
VHT80	4	5290	81.86	81.39	81.62	81.62	76.16	76.28	76.04	76.16	24.00
11a	4	5500	21.62	21.45	21.57	21.45	17.01	16.95	16.90	16.83	24.00
11a	4	5580	21.62	21.39	21.45	21.39	17.02	16.96	16.89	16.85	24.00
11a	4	5700	21.57	21.33	21.51	21.39	17.04	16.90	16.79	16.89	24.00
VHT20	4	5500	21.86	21.45	21.68	21.68	18.05	17.91	17.96	17.91	24.00
VHT20	4	5580	21.80	21.62	21.68	21.57	18.06	17.89	17.94	17.91	24.00
VHT20	4	5700	21.91	21.74	21.51	21.74	18.05	17.87	17.91	17.94	24.00
VHT40	4	5510	40.93	40.81	40.70	40.70	36.60	36.58	36.58	36.60	24.00
VHT40	4	5590	41.04	40.70	52.52	49.51	36.60	36.54	36.58	36.62	24.00
VHT40	4	5670	40.93	40.58	41.16	40.81	36.56	36.50	36.60	36.64	24.00
VHT80	4	5530	82.09	81.39	81.86	81.62	76.20	76.12	76.16	76.20	24.00
VHT80	4	5610	82.09	81.86	81.86	81.86	76.16	75.96	76.20	76.32	24.00

Worst Plot of 26dB Bandwidth



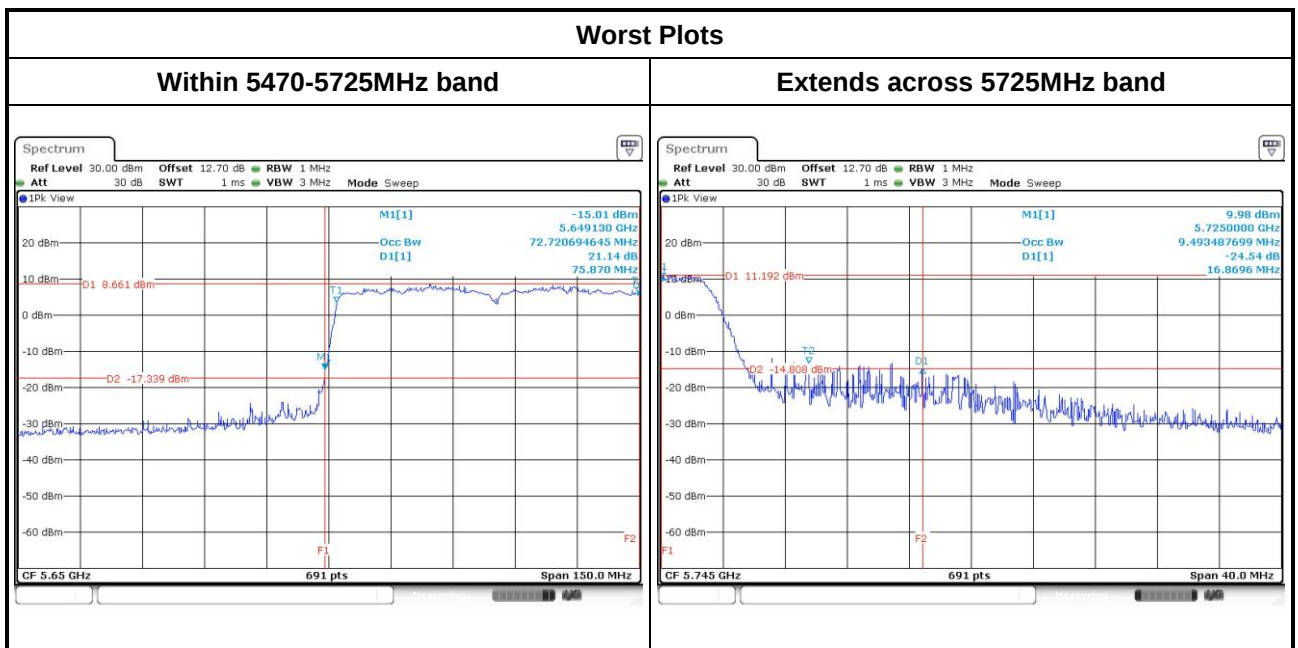
Worst Plot of 99% Bandwidth



Channel that extends across the 5.725 GHz boundary

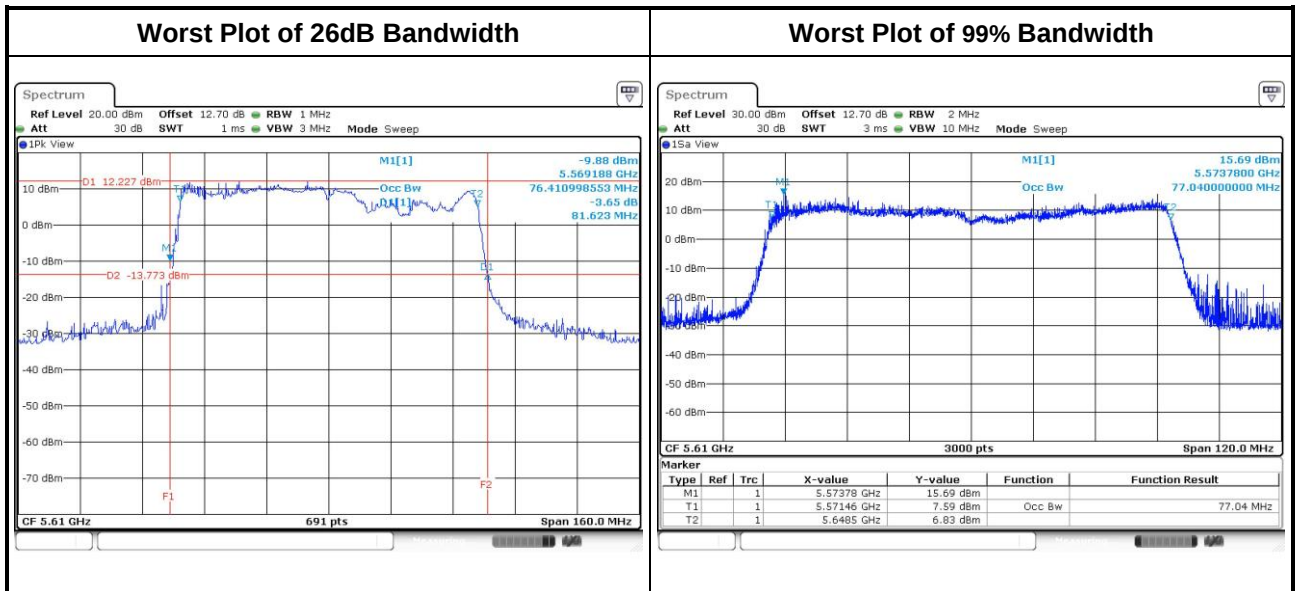
UNII Emission Bandwidth Result (Within 5470-5725MHz band)											
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	4	5720	15.89	15.89	15.71	15.83	13.60	13.65	13.48	13.56	22.96
VHT20	4	5720	15.95	15.64	15.83	15.77	14.13	14.07	14.05	14.06	22.94
VHT40	4	5710	35.61	35.30	35.61	35.30	33.41	33.31	33.41	33.35	24.00
VHT80	4	5690	75.87	75.87	75.87	75.87	73.18	73.10	73.26	73.18	24.00

UNII Emission Bandwidth Result (Extends across 5725MHz band)											
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	4	5720	5.91	5.80	5.74	5.61	3.45	3.30	3.31	3.36	
VHT20	4	5720	5.91	5.61	5.93	5.80	3.98	3.81	3.85	3.90	
VHT40	4	5710	10.90	15.54	16.87	11.25	3.17	3.13	3.23	3.21	
VHT80	4	5690	6.61	7.04	7.04	6.35	2.94	2.86	3.02	3.06	



Beamforming mode

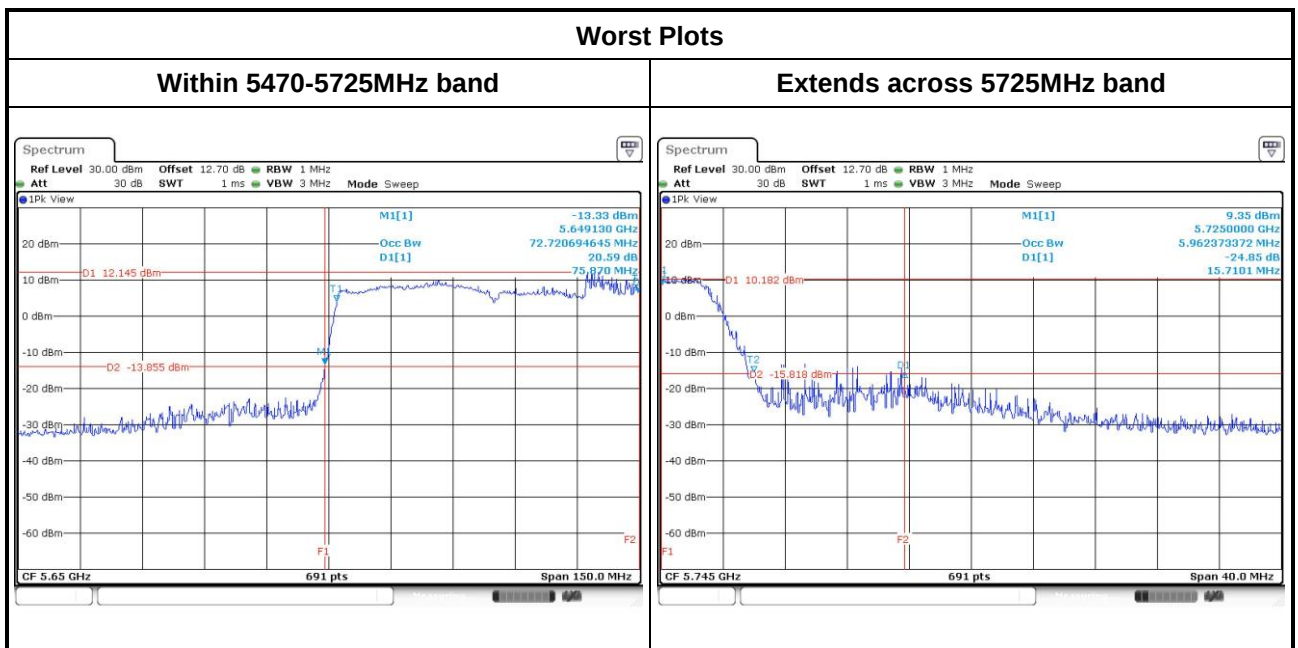
Emission Bandwidth											
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
VHT20	4	5260	21.74	21.74	21.51	21.86	18.11	18.08	18.07	18.06	24.00
VHT20	4	5300	21.91	21.97	21.86	21.80	18.12	18.16	18.10	17.87	24.00
VHT20	4	5320	21.80	21.68	21.91	21.86	18.08	18.10	18.13	18.02	24.00
VHT40	4	5270	40.93	40.93	40.93	41.16	36.62	36.48	36.82	36.52	24.00
VHT40	4	5310	40.93	41.28	40.81	40.81	36.66	36.72	36.72	36.80	24.00
VHT80	4	5290	80.70	80.93	80.70	81.16	76.12	76.72	76.48	76.04	24.00
VHT20	4	5500	21.86	21.80	21.68	21.62	17.99	18.11	17.99	17.98	24.00
VHT20	4	5580	21.74	21.74	21.68	21.45	18.05	18.07	17.97	18.01	24.00
VHT20	4	5700	21.74	21.68	21.74	21.33	18.01	18.12	18.04	17.99	24.00
VHT40	4	5510	40.23	41.16	40.93	40.35	36.36	36.58	36.90	36.38	24.00
VHT40	4	5590	41.16	41.16	43.94	40.70	36.62	36.76	36.58	36.38	24.00
VHT40	4	5670	41.39	40.93	41.04	40.93	36.84	36.84	36.32	36.24	24.00
VHT80	4	5530	81.62	80.70	81.39	80.93	76.28	76.64	76.60	76.76	24.00
VHT80	4	5610	81.62	80.93	80.93	81.16	77.04	76.12	76.96	76.68	24.00



Channel that extends across the 5.725 GHz boundary

UNII Emission Bandwidth Result (Within 5470-5725MHz band)											
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
VHT20	4	5720	15.89	16.01	15.89	15.89	14.13	14.13	14.24	13.91	23.01
VHT40	4	5710	35.30	35.41	35.51	35.41	33.29	33.49	33.71	33.07	24.00
VHT80	4	5690	75.22	75.87	75.65	75.87	73.42	73.70	73.74	73.74	24.00

UNII Emission Bandwidth Result (Extends across 5725MHz band)											
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
VHT20	4	5720	5.89	5.89	5.96	5.80	3.82	3.97	3.98	4.03	
VHT40	4	5710	14.14	5.62	15.71	5.91	3.19	3.25	3.13	3.59	
VHT80	4	5690	5.57	6.26	5.83	5.65	2.74	2.94	2.62	3.14	



3.3 RF Output Power

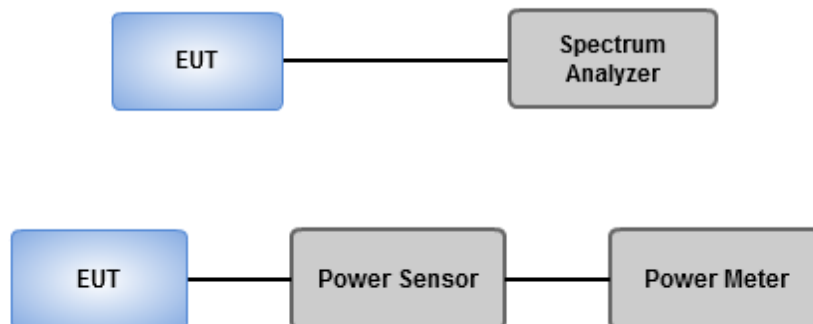
3.3.1 Limit of RF Output Power

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	250mW or 11dBm+10 log B
☒	5470 ~ 5725	250mW or 11dBm+10 log B
Note: "B" is the 26dB emission bandwidth in MHz.		

3.3.2 Test Procedures

- ☒ Power meter (For channel that does not extends across the 5.725 GHz boundary)
 - ☒ Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required
- ☒ Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)
 1. Set RBW=1MHz, VBW=3MHz , Sweep time= Auto, Detector = RMS
 2. Trace average at least 100 traces in power averaging mode
 3. Compute power by integrating the spectrum across the 26 dB EBW
 4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%)

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

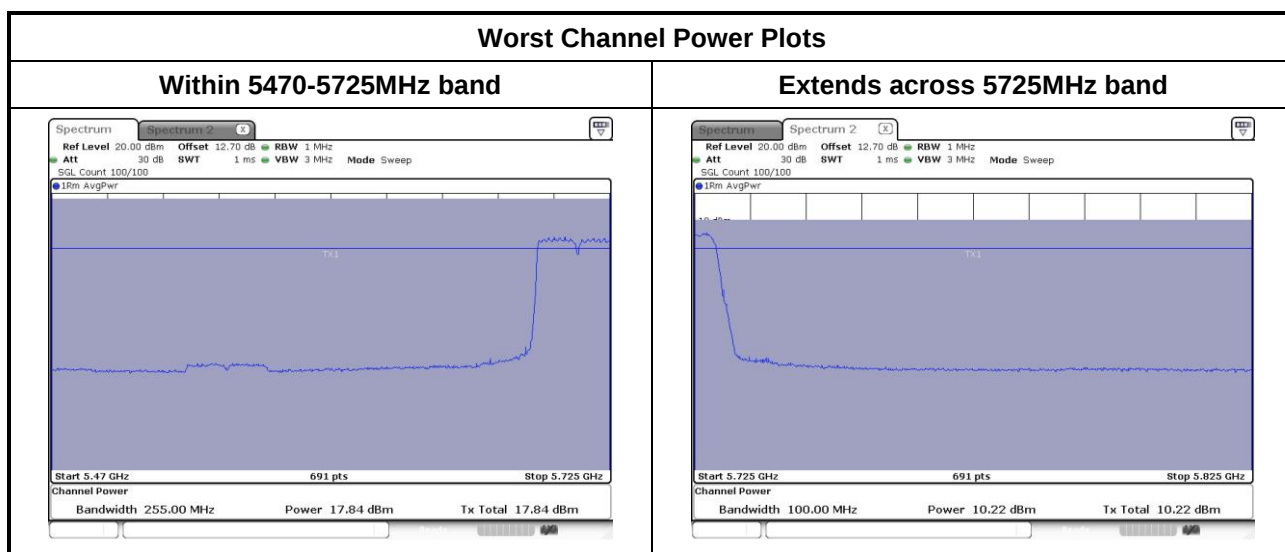
Non-beamforming mode

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	5260	17.24	17.05	16.62	17.02	199.935	23.01	24.00
11a	4	5300	17.42	16.83	16.56	17.01	198.927	22.99	24.00
11a	4	5320	17.5	16.92	16.64	17	201.689	23.05	24.00
HT20	4	5260	17.50	16.72	16.90	16.64	198.333	22.97	24.00
HT20	4	5300	17.21	16.83	16.64	16.87	195.569	22.91	24.00
HT20	4	5320	17.19	16.97	16.83	17.01	200.563	23.02	24.00
HT40	4	5270	17.65	17.52	17.58	17.81	232.378	23.66	24.00
HT40	4	5310	17.94	17.79	17.60	17.57	237.039	23.75	24.00
VHT20	4	5260	17.54	16.76	16.96	16.68	200.397	23.02	24.00
VHT20	4	5300	17.26	16.86	16.69	16.92	197.610	22.96	24.00
VHT20	4	5320	17.25	16.99	16.85	17.03	201.975	23.05	24.00
VHT40	4	5270	17.68	17.55	17.61	17.85	234.129	23.69	24.00
VHT40	4	5310	17.98	17.84	17.65	17.63	239.773	23.80	24.00
VHT80	4	5290	17.55	17.21	17.28	17.38	217.645	23.38	24.00
11a	4	5500	17.19	17.01	16.95	17.01	202.374	23.06	24.00
11a	4	5580	16.54	17.2	16.86	16.96	195.750	22.92	24.00
11a	4	5700	16.99	16.84	16.95	17.22	200.577	23.02	24.00
HT20	4	5500	16.88	17.01	16.91	17.19	200.438	23.02	24.00
HT20	4	5580	16.71	16.83	16.91	17.33	198.242	22.97	24.00
HT20	4	5700	16.72	16.79	16.78	17.01	192.620	22.85	24.00
HT40	4	5510	16.98	16.82	16.88	16.79	194.478	22.89	24.00
HT40	4	5590	16.61	17.77	17.92	18.02	230.986	23.64	24.00
HT40	4	5670	17.48	17.54	17.82	17.91	235.066	23.71	24.00
VHT20	4	5500	16.91	17.05	16.94	17.25	202.309	23.06	24.00
VHT20	4	5580	16.76	16.87	16.93	17.4	200.336	23.02	24.00
VHT20	4	5700	16.75	16.83	16.81	17.07	194.416	22.89	24.00
VHT40	4	5510	17.02	16.86	16.91	16.84	196.276	22.93	24.00
VHT40	4	5590	17.65	17.81	17.95	18.04	244.658	23.89	24.00
VHT40	4	5670	17.51	17.58	17.87	17.94	237.108	23.75	24.00
VHT80	4	5530	15.62	15.79	15.75	15.81	150.097	21.76	24.00
VHT80	4	5610	17.52	17.16	17.21	17.32	215.046	23.33	24.00

Channel that extends across the 5.725 GHz boundary

Maximum Conducted Output Power (Within 5470-5725MHz band)											
Mode	N _{Tx}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
11a	4	5720	16.05	16.40	16.12	16.19	22.21	0.00	166.440	22.21	22.96
HT20	4	5720	16.18	16.10	16.02	16.16	22.14	0.00	163.533	22.14	22.94
HT40	4	5710	17.41	17.17	17.36	17.79	23.46	0.00	221.768	23.46	24.00
VHT20	4	5720	16.29	16.13	16.14	16.26	22.23	0.00	166.962	22.23	22.94
VHT40	4	5710	17.52	17.19	17.40	17.84	23.51	0.00	224.621	23.51	24.00
VHT80	4	5690	17.23	17.28	17.36	17.40	23.34	0.00	215.705	23.34	24.00

Maximum Conducted Output Power (Extends across 5725MHz band)											
Mode	N _{Tx}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
11a	4	5720	9.81	9.36	8.40	9.08	15.21	0.00	33.211	15.21	30.00
HT20	4	5720	10.08	9.80	10.02	10.11	16.02	0.00	40.039	16.02	30.00
HT40	4	5710	6.43	6.57	6.96	7.28	12.84	0.00	19.246	12.84	30.00
VHT20	4	5720	10.01	10.09	9.99	10.22	16.10	0.00	40.729	16.10	30.00
VHT40	4	5710	6.46	6.67	6.97	7.31	12.88	0.00	19.431	12.88	30.00
VHT80	4	5690	2.83	3.24	3.75	3.88	9.47	0.00	8.842	9.47	30.00



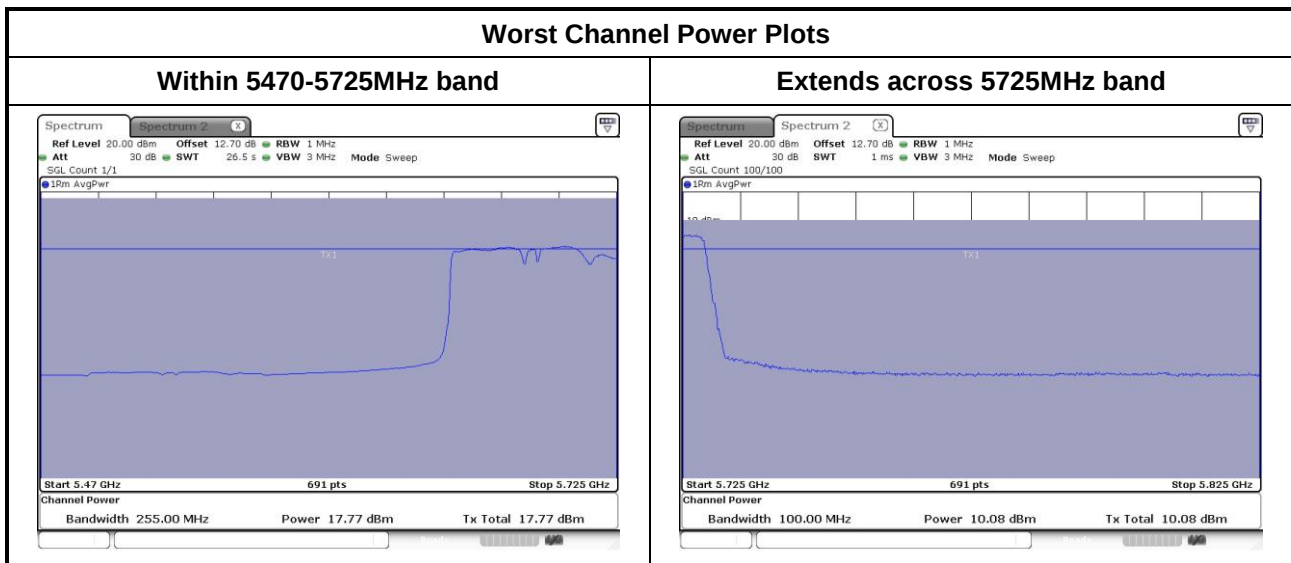
Beamforming mode

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	5260	16.64	16.62	17.02	17.04	192.984	22.86	24.00
HT20	4	5300	16.83	16.35	16.72	16.51	183.107	22.63	24.00
HT20	4	5320	16.49	16.03	17.15	17.04	187.115	22.72	24.00
HT40	4	5270	17.12	17.15	17.03	17.65	212.079	23.26	24.00
HT40	4	5310	17.51	17.24	17.29	17.42	218.118	23.39	24.00
VHT20	4	5260	16.78	16.73	17.11	17.15	198.025	22.97	24.00
VHT20	4	5300	16.95	16.48	16.85	16.62	188.345	22.75	24.00
VHT20	4	5320	16.62	16.16	17.21	17.12	191.349	22.82	24.00
VHT40	4	5270	17.26	17.28	17.12	17.74	217.619	23.38	24.00
VHT40	4	5310	17.62	17.35	17.44	17.51	223.961	23.50	24.00
VHT80	4	5290	16.15	16.29	16.01	16.49	168.238	22.26	24.00
HT20	4	5500	16.41	16.53	16.94	16.65	184.399	22.66	24.00
HT20	4	5580	16.72	16.63	16.71	16.42	183.749	22.64	24.00
HT20	4	5700	16.14	16.38	16.22	16.91	175.536	22.44	24.00
HT40	4	5510	16.49	17.03	16.61	16.75	188.161	22.75	24.00
HT40	4	5590	17.68	17.72	17.21	17.54	227.126	23.56	24.00
HT40	4	5670	17.42	17.28	17.71	17.75	227.251	23.57	24.00
VHT20	4	5500	16.52	16.61	17.02	16.78	188.682	22.76	24.00
VHT20	4	5580	16.85	16.79	16.88	16.53	189.901	22.79	24.00
VHT20	4	5700	16.25	16.49	16.35	17.02	180.237	22.56	24.00
VHT40	4	5510	16.65	17.16	16.73	16.89	194.201	22.88	24.00
VHT40	4	5590	17.81	17.86	17.34	17.65	233.899	23.69	24.00
VHT40	4	5670	17.55	17.39	17.86	17.84	233.621	23.69	24.00
VHT80	4	5530	15.79	15.66	15.73	15.65	148.884	21.73	24.00
VHT80	4	5610	17.44	17.02	17.11	17.21	209.819	23.22	24.00

Channel that extends across the 5.725 GHz boundary

Maximum Conducted Output Power (Within 5470-5725MHz band)											
Mode	N _{TX}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
HT20	4	5720	15.75	16.03	16.38	16.36	22.16	0.00	164.373	22.16	23.01
HT40	4	5710	17.20	17.11	17.26	17.50	23.29	0.00	213.330	23.29	24.00
VHT20	4	5720	15.76	16.00	16.50	16.78	22.30	0.00	169.793	22.30	23.01
VHT40	4	5710	17.25	17.15	17.41	17.54	23.36	0.00	216.804	23.36	24.00
VHT80	4	5690	16.84	16.95	17.10	17.77	23.20	0.14	215.825	23.34	24.00

Maximum Conducted Output Power (Extends across 5725MHz band)											
Mode	N _{TX}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
HT20	4	5720	10.08	8.76	9.10	8.18	15.11	0.00	32.407	15.11	30.00
HT40	4	5710	7.42	5.14	4.92	6.35	12.10	0.00	16.206	12.10	30.00
VHT20	4	5720	9.95	9.61	9.51	9.27	15.61	0.00	36.413	15.61	30.00
VHT40	4	5710	7.98	6.32	8.16	6.29	13.30	0.00	21.368	13.30	30.00
VHT80	4	5690	4.01	2.60	3.28	2.57	9.18	0.14	8.544	9.32	30.00



3.4 Peak Power Spectral Density

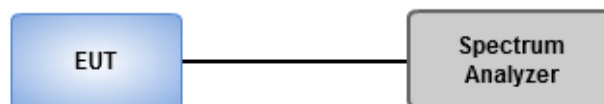
3.4.1 Limit of Peak Power Spectral Density

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz

3.4.2 Test Procedures

- ☒ Method SA-1 (Non- Beamforming: all modes / Beamforming: VHT20/VHT40)
 - Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
 - Trace average 100 traces.
 - Use the peak marker function to determine the maximum amplitude level.
- ☒ Method SA-2 Alternative (Beamforming: 11ac VHT80)
 - Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
 - Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
 - Perform a single sweep.
 - Use the peak marker function to determine the maximum amplitude level.
 - Add $10 \log(1/x)$, where x is the duty cycle if duty cycle < 98%

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

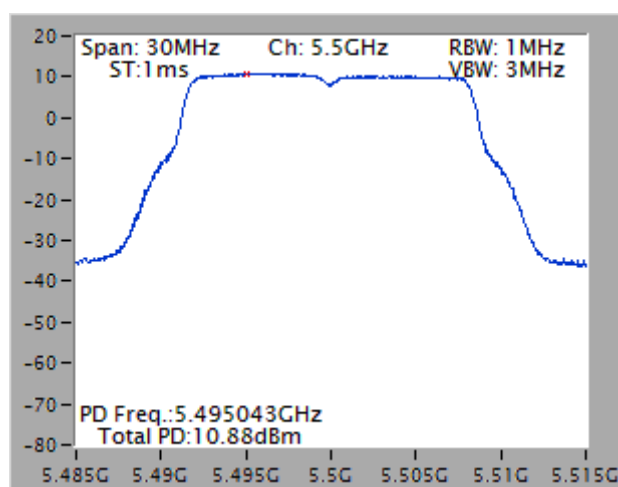
Non-beamforming mode

Condition			Peak Power Spectral Density (dBm/MHz)			
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	4	5260	10.57	0.00	10.57	11
11a	4	5300	10.53	0.00	10.53	11
11a	4	5320	10.63	0.00	10.63	11
VHT20	4	5260	10.65	0.00	10.65	11
VHT20	4	5300	10.33	0.00	10.33	11
VHT20	4	5320	10.59	0.00	10.59	11
VHT40	4	5270	8.40	0.00	8.40	11
VHT40	4	5310	6.86	0.00	6.86	11
VHT80	4	5290	3.42	0.00	3.42	11
11a	4	5500	10.88	0.00	10.88	11
11a	4	5580	10.08	0.00	10.08	11
11a	4	5700	10.68	0.00	10.68	11
11a	4	5720	10.72	0.00	10.72	11
VHT20	4	5500	10.32	0.00	10.32	11
VHT20	4	5580	10.24	0.00	10.24	11
VHT20	4	5700	10.20	0.00	10.20	11
VHT20	4	5720	10.32	0.00	10.32	11
VHT40	4	5510	5.77	0.00	5.77	11
VHT40	4	5590	6.79	0.00	6.79	11
VHT40	4	5670	6.50	0.00	6.50	11
VHT40	4	5710	6.46	0.00	6.46	11
VHT80	4	5530	1.26	0.00	1.26	11
VHT80	4	5610	3.24	0.00	3.24	11
VHT80	4	5690	2.94	0.00	2.94	11

Note:

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

Worst Plot

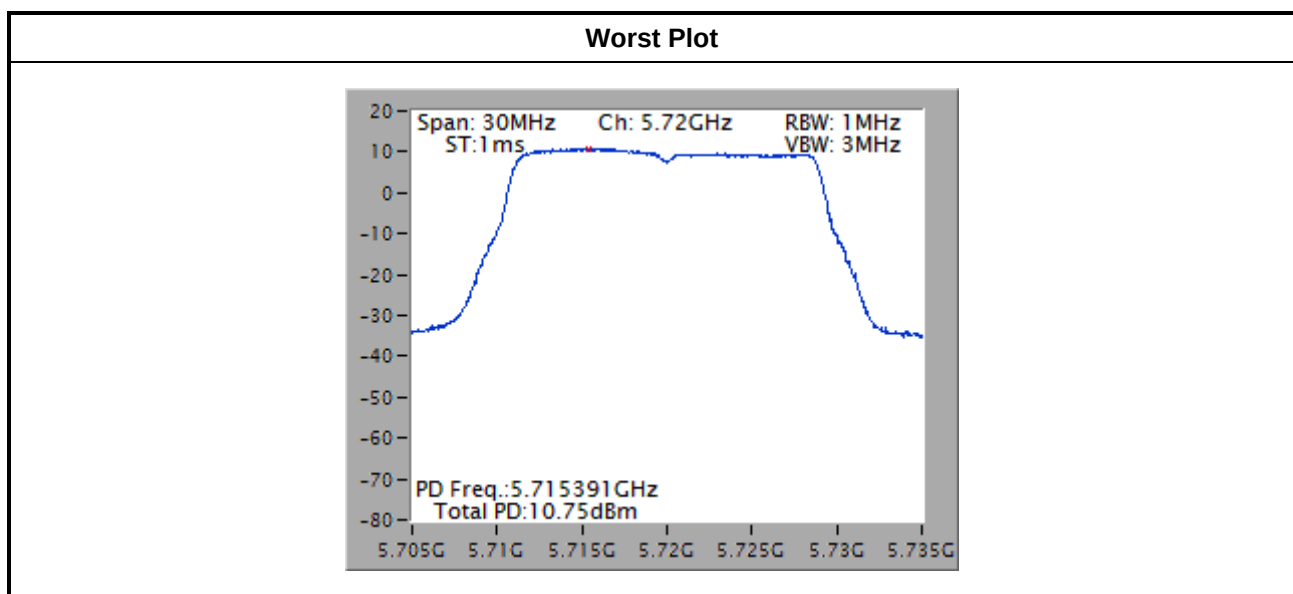


Beamforming mode

Condition			Peak Power Spectral Density (dBm/MHz)			
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)
VHT20	4	5260	10.17	0.00	10.17	11
VHT20	4	5300	10.23	0.00	10.23	11
VHT20	4	5320	10.53	0.00	10.53	11
VHT40	4	5270	8.08	0.00	8.08	11
VHT40	4	5310	6.63	0.00	6.63	11
VHT80	4	5290	2.57	0.14	2.71	11
VHT20	4	5500	10.12	0.00	10.12	11
VHT20	4	5580	10.32	0.00	10.32	11
VHT20	4	5700	10.06	0.00	10.06	11
VHT20	4	5720	10.75	0.00	10.75	11
VHT40	4	5510	6.43	0.00	6.43	11
VHT40	4	5590	6.53	0.00	6.53	11
VHT40	4	5670	5.91	0.00	5.91	11
VHT40	4	5710	8.39	0.00	8.39	11
VHT80	4	5530	2.39	0.14	2.53	11
VHT80	4	5610	3.72	0.14	3.86	11
VHT80	4	5690	4.79	0.14	4.93	11

Note:

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



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
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

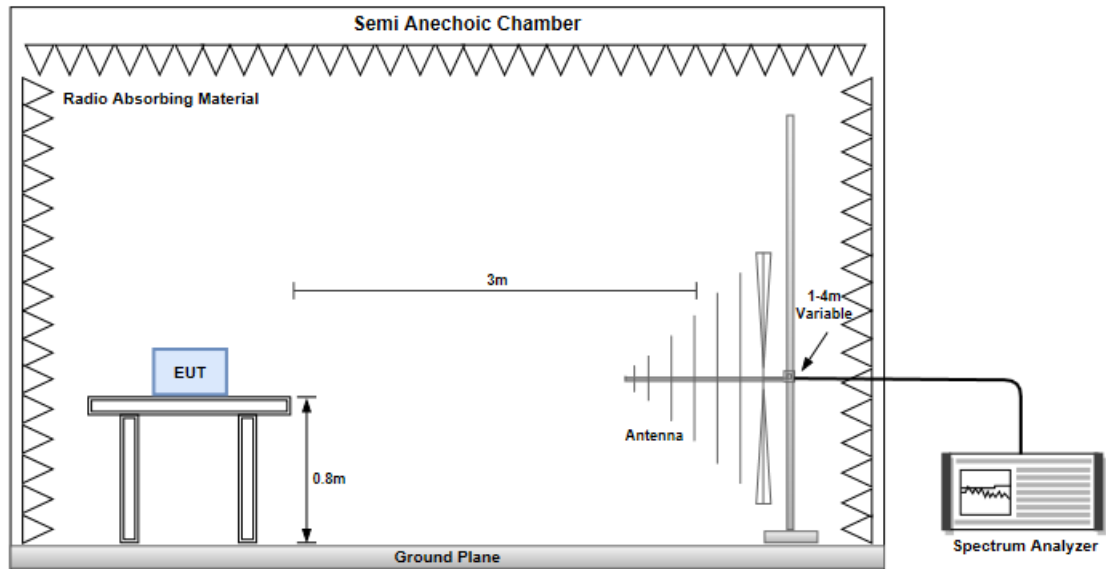
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360° . A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

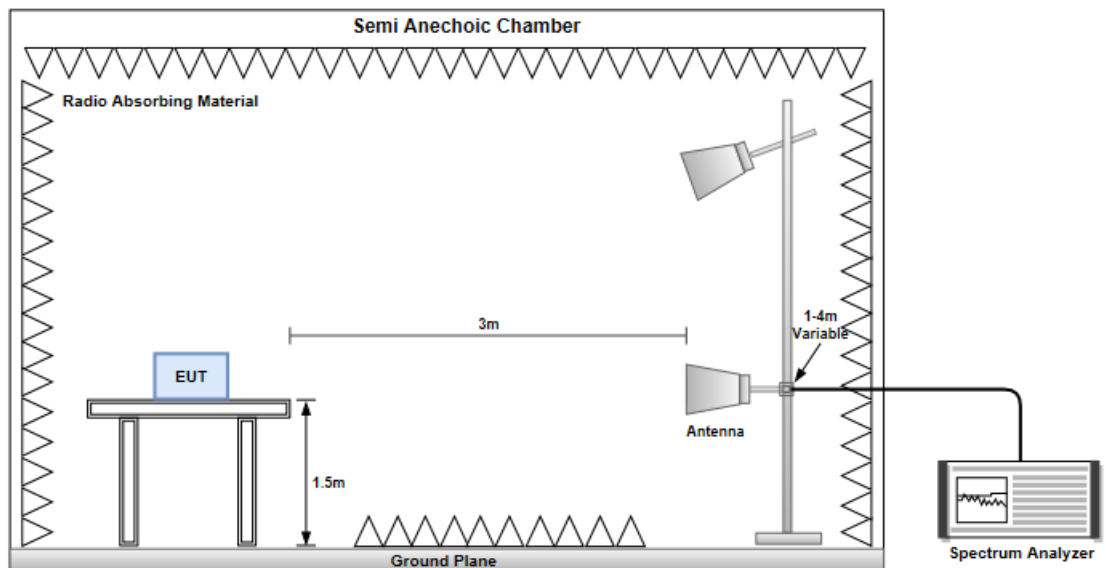
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



Non- beamforming mode

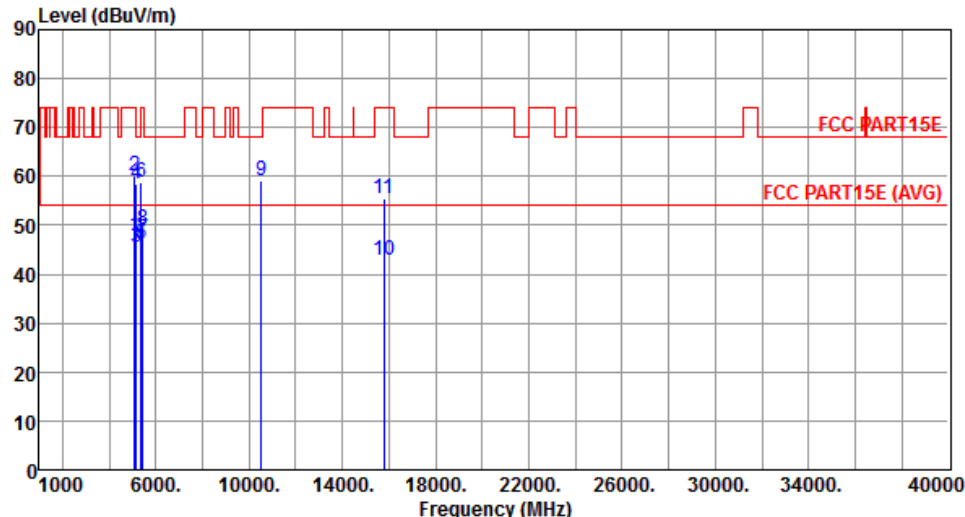
3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

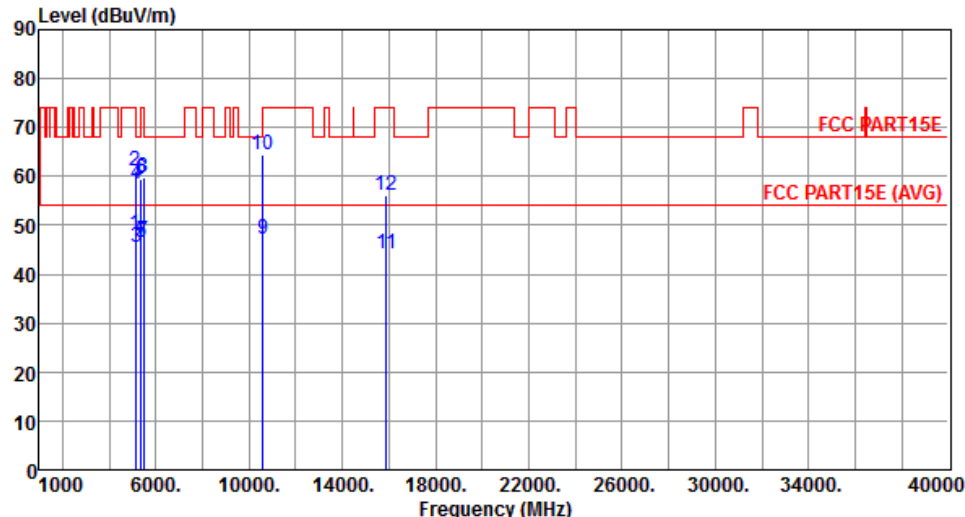
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		
Level (dBuV/m)			

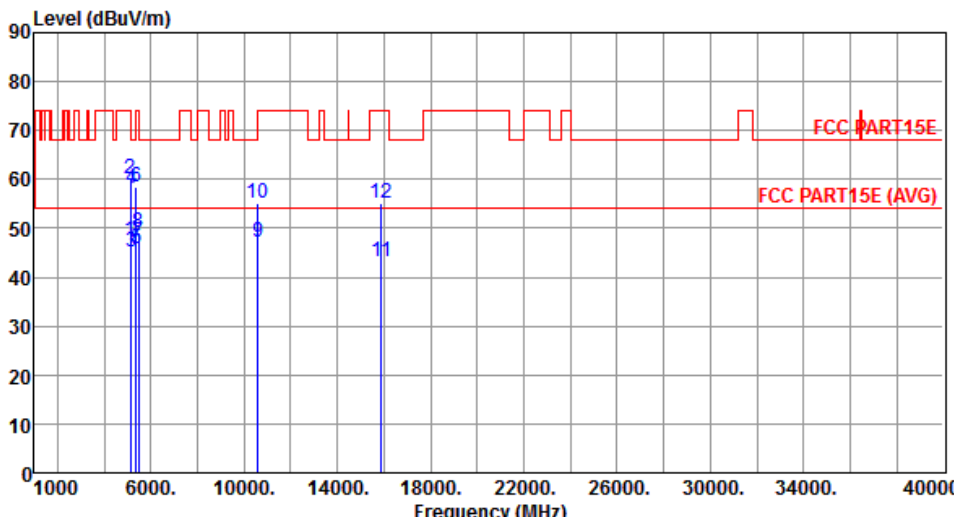
3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5260																																																																																																																								
Polarization	Vertical																																																																																																																										
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5100.00</td><td>47.88</td><td>54.00</td><td>-6.12</td><td>43.45</td><td>4.43</td><td>Average</td><td>111</td><td>22</td></tr><tr><td>2</td><td>5100.00</td><td>60.18</td><td>74.00</td><td>-13.82</td><td>55.75</td><td>4.43</td><td>Peak</td><td>111</td><td>22</td></tr><tr><td>3</td><td>5150.00</td><td>45.59</td><td>54.00</td><td>-8.41</td><td>41.11</td><td>4.48</td><td>Average</td><td>111</td><td>22</td></tr><tr><td>4</td><td>5150.00</td><td>58.38</td><td>74.00</td><td>-15.62</td><td>53.90</td><td>4.48</td><td>Peak</td><td>111</td><td>22</td></tr><tr><td>5</td><td>5350.00</td><td>46.09</td><td>54.00</td><td>-7.91</td><td>41.35</td><td>4.74</td><td>Average</td><td>111</td><td>22</td></tr><tr><td>6</td><td>5350.00</td><td>58.67</td><td>74.00</td><td>-15.33</td><td>53.93</td><td>4.74</td><td>Peak</td><td>111</td><td>22</td></tr><tr><td>7</td><td>5420.00</td><td>47.24</td><td>54.00</td><td>-6.76</td><td>42.39</td><td>4.85</td><td>Average</td><td>111</td><td>22</td></tr><tr><td>8</td><td>5420.00</td><td>49.29</td><td>74.00</td><td>-24.71</td><td>44.44</td><td>4.85</td><td>Peak</td><td>111</td><td>22</td></tr><tr><td>9</td><td>10520.00</td><td>59.02</td><td>68.20</td><td>-9.18</td><td>45.01</td><td>14.01</td><td>Peak</td><td>188</td><td>186</td></tr><tr><td>10</td><td>15780.00</td><td>42.82</td><td>54.00</td><td>-11.18</td><td>28.81</td><td>14.01</td><td>Average</td><td>100</td><td>247</td></tr><tr><td>11</td><td>15780.00</td><td>55.50</td><td>74.00</td><td>-18.50</td><td>41.49</td><td>14.01</td><td>Peak</td><td>100</td><td>247</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	5100.00	47.88	54.00	-6.12	43.45	4.43	Average	111	22	2	5100.00	60.18	74.00	-13.82	55.75	4.43	Peak	111	22	3	5150.00	45.59	54.00	-8.41	41.11	4.48	Average	111	22	4	5150.00	58.38	74.00	-15.62	53.90	4.48	Peak	111	22	5	5350.00	46.09	54.00	-7.91	41.35	4.74	Average	111	22	6	5350.00	58.67	74.00	-15.33	53.93	4.74	Peak	111	22	7	5420.00	47.24	54.00	-6.76	42.39	4.85	Average	111	22	8	5420.00	49.29	74.00	-24.71	44.44	4.85	Peak	111	22	9	10520.00	59.02	68.20	-9.18	45.01	14.01	Peak	188	186	10	15780.00	42.82	54.00	-11.18	28.81	14.01	Average	100	247	11	15780.00	55.50	74.00	-18.50	41.49	14.01	Peak	100	247
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Modulation	11a	Test Freq. (MHz)	5300																																																																																																																																		
Polarization	Horizontal																																																																																																																																				
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																																																					

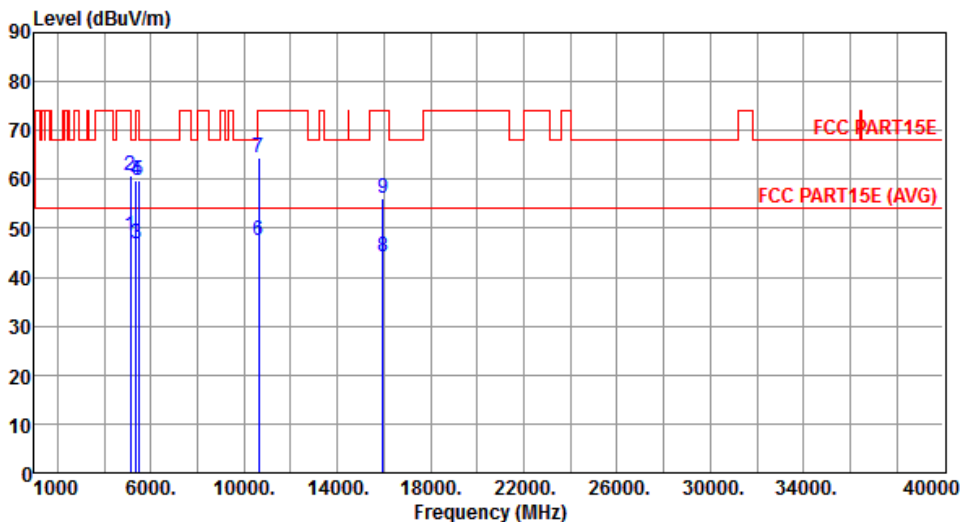
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5140.00	47.63	54.00	-6.37	43.16	4.47	Average	114 24
2	5140.00	59.96	74.00	-14.04	55.49	4.47	Peak	114 24
3	5150.00	45.32	54.00	-8.68	40.84	4.48	Average	114 24
4	5150.00	58.10	74.00	-15.90	53.62	4.48	Peak	114 24
5	5350.00	45.81	54.00	-8.19	41.07	4.74	Average	114 24
6	5350.00	58.44	74.00	-15.56	53.70	4.74	Peak	114 24
7	5460.00	47.05	54.00	-6.95	42.16	4.89	Average	114 24
8	5460.00	49.09	74.00	-24.91	44.20	4.89	Peak	114 24
9	10600.00	47.06	54.00	-6.94	32.94	14.12	Average	190 184
10	10600.00	55.26	74.00	-18.74	41.14	14.12	Peak	190 184
11	15900.00	43.27	54.00	-10.73	29.45	13.82	Average	100 253
12	15900.00	55.29	74.00	-18.71	41.47	13.82	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).

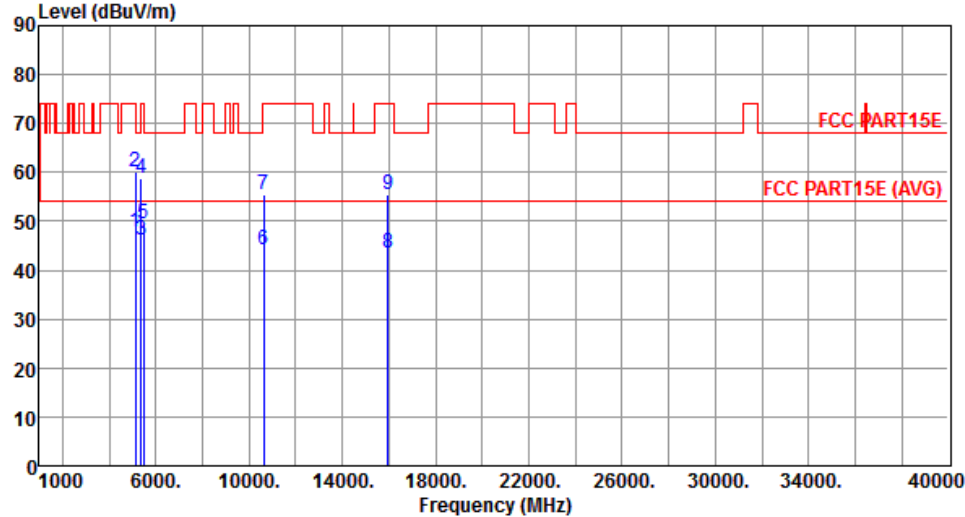
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5120.00	48.51	54.00	-5.49	44.06	4.45	Average	185	290
2	5120.00	60.80	74.00	-13.20	56.35	4.45	Peak	185	290
3	5350.00	46.77	54.00	-7.23	42.03	4.74	Average	185	290
4	5350.00	59.69	74.00	-14.31	54.95	4.74	Peak	185	290
5	5480.00	59.90	68.20	-8.30	54.99	4.91	Peak	185	290
6	10640.00	47.39	54.00	-6.61	33.21	14.18	Average	142	297
7	10640.00	64.55	74.00	-9.45	50.37	14.18	Peak	142	297
8	15960.00	44.17	54.00	-9.83	30.44	13.73	Average	100	256
9	15960.00	56.26	74.00	-17.74	42.53	13.73	Peak	100	256

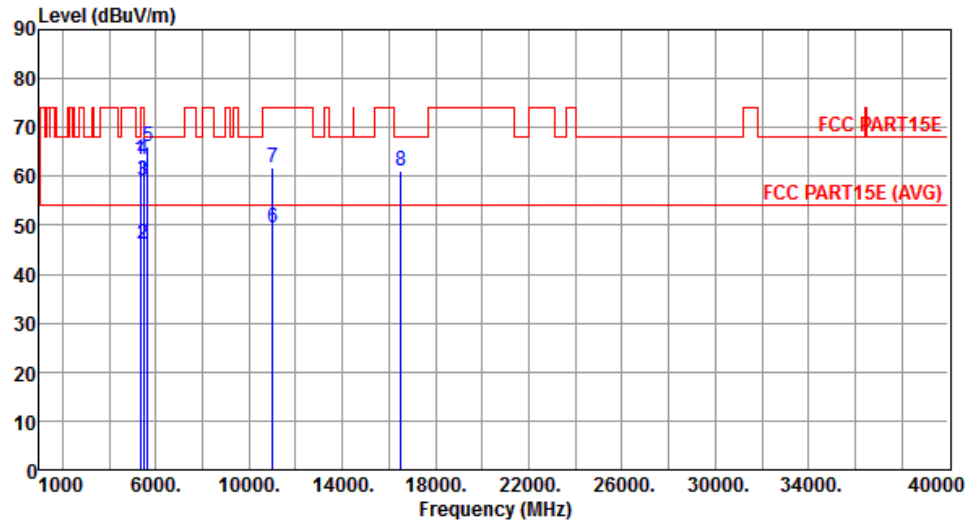
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

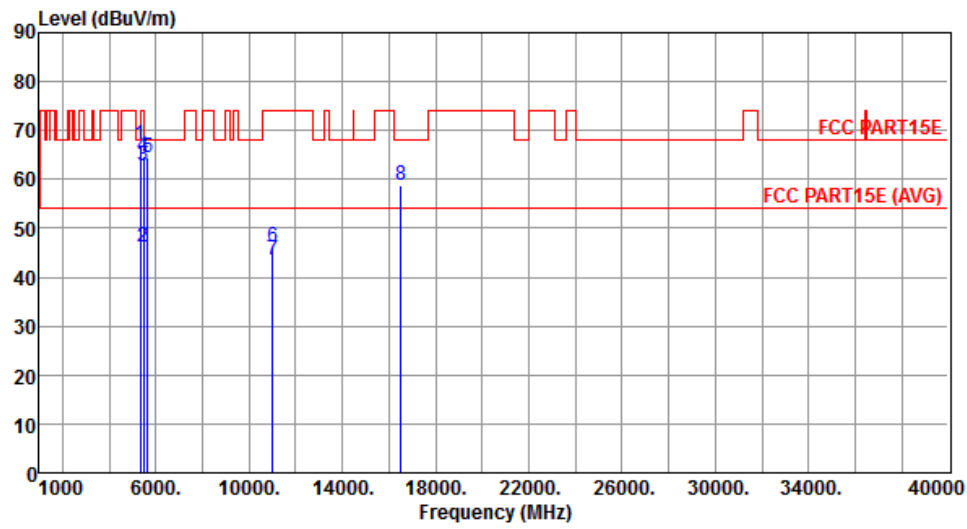
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		

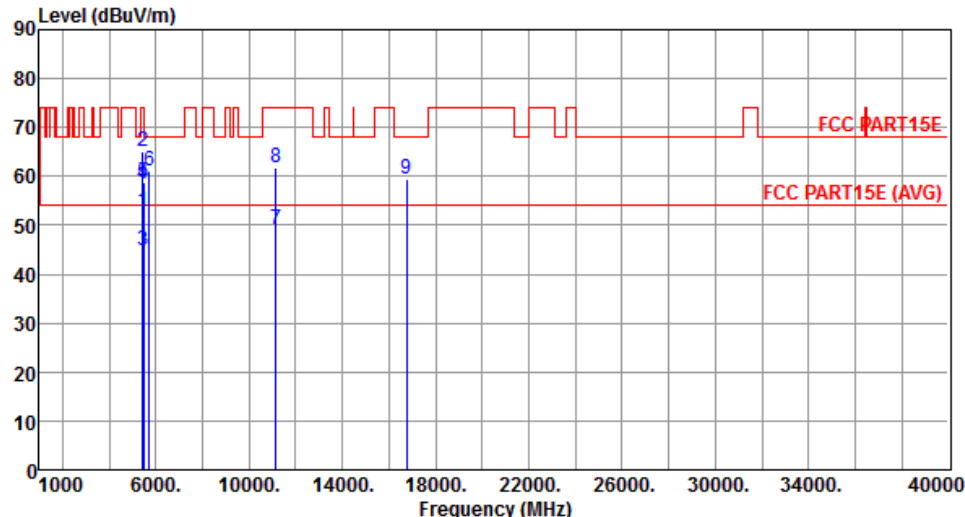


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5120.00	47.78	54.00	-6.22	43.33	4.45	Average	118	26
2	5120.00	60.16	74.00	-13.84	55.71	4.45	Peak	118	26
3	5350.00	46.05	54.00	-7.95	41.31	4.74	Average	118	26
4	5350.00	58.65	74.00	-15.35	53.91	4.74	Peak	118	26
5	5480.00	49.32	68.20	-18.88	44.41	4.91	Peak	118	26
6	10640.00	44.10	54.00	-9.90	29.92	14.18	Average	186	182
7	10640.00	55.42	74.00	-18.58	41.24	14.18	Peak	186	182
8	15960.00	43.41	54.00	-10.59	29.68	13.73	Average	100	261
9	15960.00	55.42	74.00	-18.58	41.69	13.73	Peak	100	261

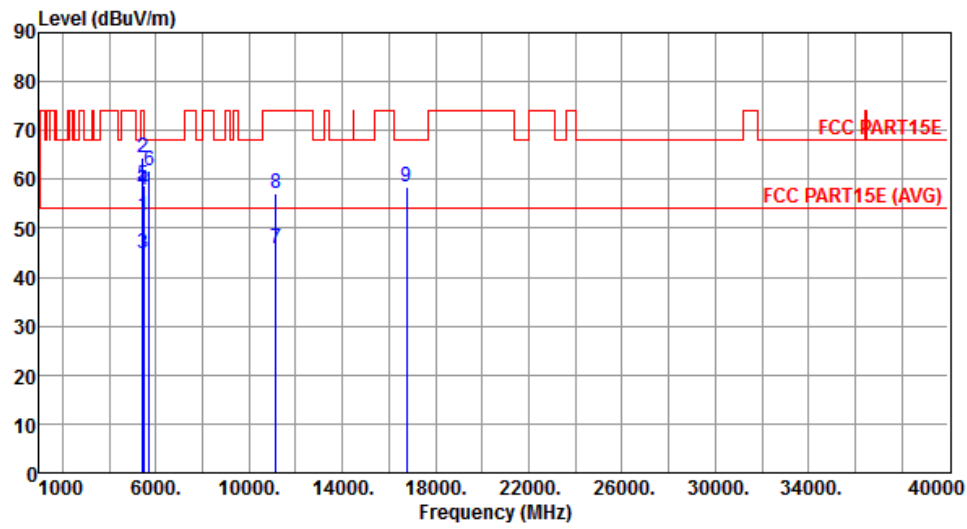
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5500																																																																																																											
Polarization	Horizontal																																																																																																													
Level (dBuV/m)  Frequency (MHz) <table><tr><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5340.00</td><td>63.54</td><td>68.20</td><td>-4.66</td><td>58.82</td><td>4.72</td><td>Peak</td><td>303</td><td>268</td></tr><tr><td>2</td><td>5460.00</td><td>46.18</td><td>54.00</td><td>-7.82</td><td>41.29</td><td>4.89</td><td>Average</td><td>303</td><td>268</td></tr><tr><td>3</td><td>5460.00</td><td>59.17</td><td>74.00</td><td>-14.83</td><td>54.28</td><td>4.89</td><td>Peak</td><td>303</td><td>268</td></tr><tr><td>4</td><td>5470.00</td><td>63.51</td><td>68.20</td><td>-4.69</td><td>58.60</td><td>4.91</td><td>Peak</td><td>303</td><td>268</td></tr><tr><td>5</td><td>5660.00</td><td>65.95</td><td>68.20</td><td>-2.25</td><td>60.73</td><td>5.22</td><td>Peak</td><td>303</td><td>268</td></tr><tr><td>6</td><td>11000.00</td><td>49.44</td><td>54.00</td><td>-4.56</td><td>34.76</td><td>14.68</td><td>Average</td><td>138</td><td>237</td></tr><tr><td>7</td><td>11000.00</td><td>61.89</td><td>74.00</td><td>-12.11</td><td>47.21</td><td>14.68</td><td>Peak</td><td>138</td><td>237</td></tr><tr><td>8</td><td>16500.00</td><td>61.04</td><td>68.20</td><td>-7.16</td><td>45.18</td><td>15.86</td><td>Peak</td><td>141</td><td>259</td></tr></table>				Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBuV/m	dB	reading	dB		High	Table								cm	deg	1	5340.00	63.54	68.20	-4.66	58.82	4.72	Peak	303	268	2	5460.00	46.18	54.00	-7.82	41.29	4.89	Average	303	268	3	5460.00	59.17	74.00	-14.83	54.28	4.89	Peak	303	268	4	5470.00	63.51	68.20	-4.69	58.60	4.91	Peak	303	268	5	5660.00	65.95	68.20	-2.25	60.73	5.22	Peak	303	268	6	11000.00	49.44	54.00	-4.56	34.76	14.68	Average	138	237	7	11000.00	61.89	74.00	-12.11	47.21	14.68	Peak	138	237	8	16500.00	61.04	68.20	-7.16	45.18	15.86	Peak	141	259
Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																						
MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																																						
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1	5340.00	63.54	68.20	-4.66	58.82	4.72	Peak	303	268																																																																																																					
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6	11000.00	49.44	54.00	-4.56	34.76	14.68	Average	138	237																																																																																																					
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Modulation	11a	Test Freq. (MHz)	5500																																																																																										
Polarization	Vertical																																																																																												
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																				
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4	5470.00	64.88	68.20	-3.32	59.97	4.91	Peak	172	98																																																																																				
5	5660.00	64.54	68.20	-3.66	59.32	5.22	Peak	172	98																																																																																				
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																													

Modulation	11a	Test Freq. (MHz)	5580																																																																																																				
Polarization	Horizontal																																																																																																						
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5420.00</td><td>52.86</td><td>54.00</td><td>-1.14</td><td>48.01</td><td>4.85</td><td>Average</td><td>151</td><td>305</td></tr><tr><td>2</td><td>5420.00</td><td>65.04</td><td>74.00</td><td>-8.96</td><td>60.19</td><td>4.85</td><td>Peak</td><td>151</td><td>305</td></tr><tr><td>3</td><td>5460.00</td><td>44.80</td><td>54.00</td><td>-9.20</td><td>39.91</td><td>4.89</td><td>Average</td><td>151</td><td>305</td></tr><tr><td>4</td><td>5460.00</td><td>58.46</td><td>74.00</td><td>-15.54</td><td>53.57</td><td>4.89</td><td>Peak</td><td>151</td><td>305</td></tr><tr><td>5</td><td>5470.00</td><td>58.81</td><td>68.20</td><td>-9.39</td><td>53.90</td><td>4.91</td><td>Peak</td><td>151</td><td>305</td></tr><tr><td>6</td><td>5725.00</td><td>61.03</td><td>68.20</td><td>-7.17</td><td>55.71</td><td>5.32</td><td>Peak</td><td>151</td><td>305</td></tr><tr><td>7</td><td>11160.00</td><td>49.29</td><td>54.00</td><td>-4.71</td><td>34.57</td><td>14.72</td><td>Average</td><td>112</td><td>239</td></tr><tr><td>8</td><td>11160.00</td><td>61.79</td><td>74.00</td><td>-12.21</td><td>47.07</td><td>14.72</td><td>Peak</td><td>112</td><td>239</td></tr><tr><td>9</td><td>16740.00</td><td>59.43</td><td>68.20</td><td>-8.77</td><td>42.95</td><td>16.48</td><td>Peak</td><td>100</td><td>269</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	5420.00	52.86	54.00	-1.14	48.01	4.85	Average	151	305	2	5420.00	65.04	74.00	-8.96	60.19	4.85	Peak	151	305	3	5460.00	44.80	54.00	-9.20	39.91	4.89	Average	151	305	4	5460.00	58.46	74.00	-15.54	53.57	4.89	Peak	151	305	5	5470.00	58.81	68.20	-9.39	53.90	4.91	Peak	151	305	6	5725.00	61.03	68.20	-7.17	55.71	5.32	Peak	151	305	7	11160.00	49.29	54.00	-4.71	34.57	14.72	Average	112	239	8	11160.00	61.79	74.00	-12.21	47.07	14.72	Peak	112	239	9	16740.00	59.43	68.20	-8.77	42.95	16.48	Peak	100	269
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
1	5420.00	52.86	54.00	-1.14	48.01	4.85	Average	151	305																																																																																														
2	5420.00	65.04	74.00	-8.96	60.19	4.85	Peak	151	305																																																																																														
3	5460.00	44.80	54.00	-9.20	39.91	4.89	Average	151	305																																																																																														
4	5460.00	58.46	74.00	-15.54	53.57	4.89	Peak	151	305																																																																																														
5	5470.00	58.81	68.20	-9.39	53.90	4.91	Peak	151	305																																																																																														
6	5725.00	61.03	68.20	-7.17	55.71	5.32	Peak	151	305																																																																																														
7	11160.00	49.29	54.00	-4.71	34.57	14.72	Average	112	239																																																																																														
8	11160.00	61.79	74.00	-12.21	47.07	14.72	Peak	112	239																																																																																														
9	16740.00	59.43	68.20	-8.77	42.95	16.48	Peak	100	269																																																																																														
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																							

Modulation	11a	Test Freq. (MHz)	5580
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	5420.00	52.50	54.00	-1.50	47.65	4.85	Average	205	98
2	5420.00	64.45	74.00	-9.55	59.60	4.85	Peak	205	98
3	5460.00	44.73	54.00	-9.27	39.84	4.89	Average	205	98
4	5460.00	57.64	74.00	-16.36	52.75	4.89	Peak	205	98
5	5470.00	58.74	68.20	-9.46	53.83	4.91	Peak	205	98
6	5725.00	61.82	68.20	-6.38	56.50	5.32	Peak	205	98
7	11160.00	45.72	54.00	-8.28	31.00	14.72	Average	143	294
8	11160.00	57.27	74.00	-16.73	42.55	14.72	Peak	143	294
9	16740.00	58.57	68.20	-9.63	42.09	16.48	Peak	137	312

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

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		

	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	47.47	54.00	-6.53	42.15	5.32	Average	179	68
2	5725.00	64.92	74.00	-9.08	59.60	5.32	Peak	179	68
3	11400.00	46.46	54.00	-7.54	31.67	14.79	Average	237	145
4	11400.00	59.83	74.00	-14.17	45.04	14.79	Peak	237	145
5	17100.00	49.50	54.00	-4.50	32.13	17.37	Average	189	236
6	17100.00	65.38	74.00	-8.62	48.01	17.37	Peak	189	236

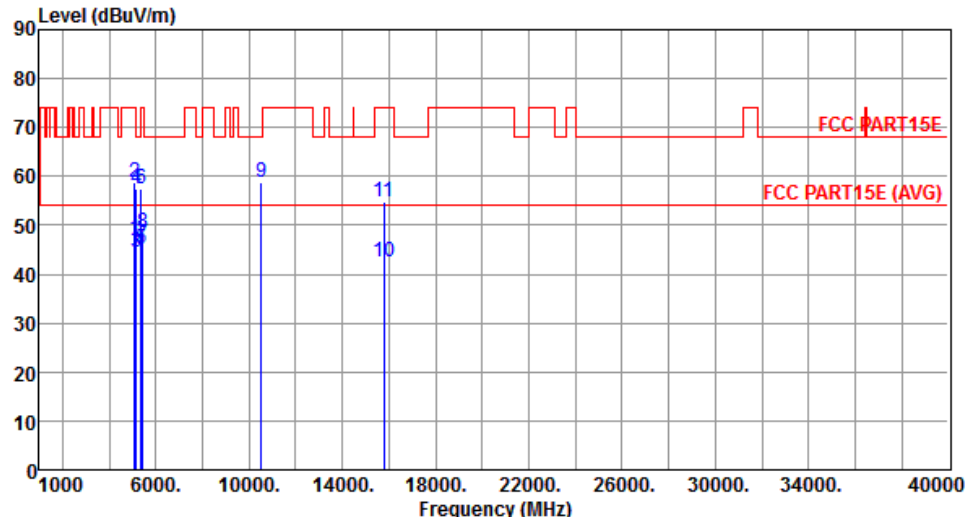
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical		
Level (dBuV/m) </			

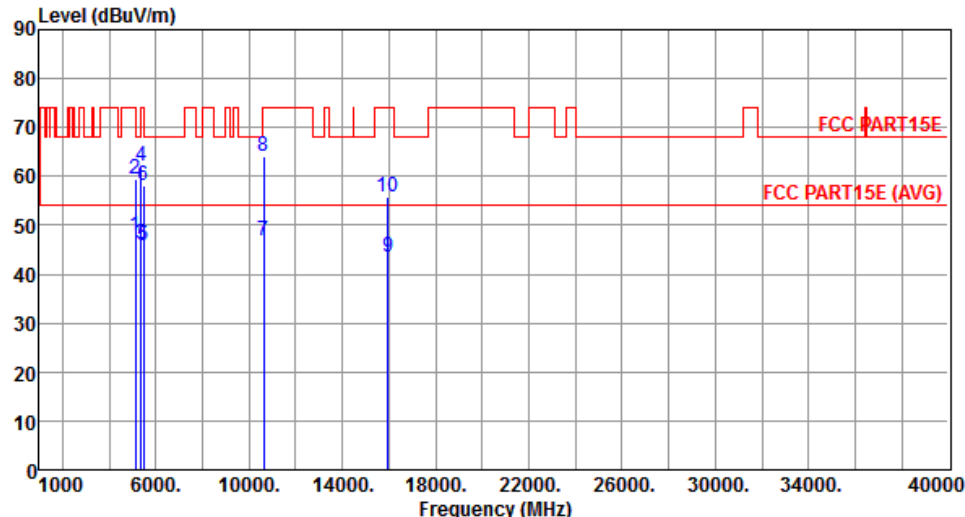
3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

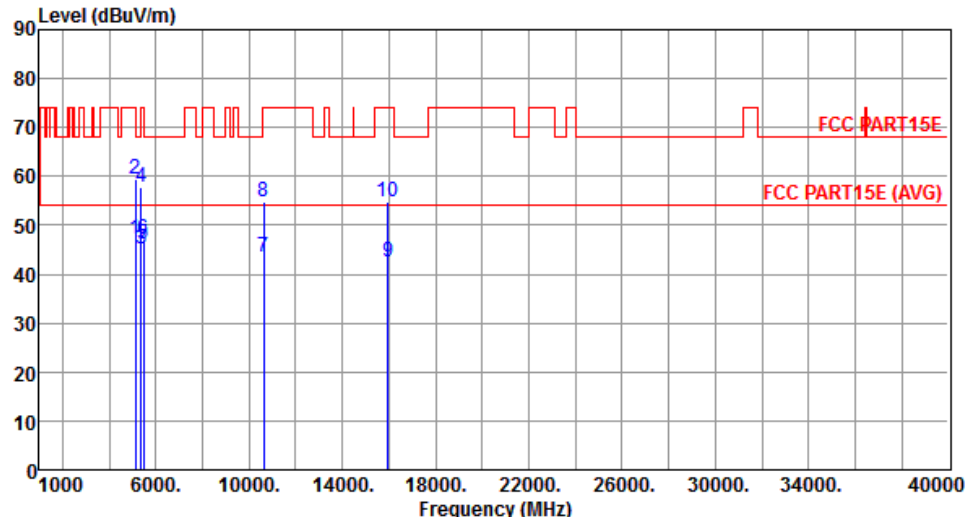
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal		
Level (dBUV/m)			

Modulation	VHT20	Test Freq. (MHz)	5260																																																																																																																																												
Polarization	Vertical																																																																																																																																														
Level (dBuV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5100.00</td><td>47.22</td><td>54.00</td><td>-6.78</td><td>42.79</td><td>4.43</td><td>Average</td><td>126</td><td>27</td></tr><tr><td>2</td><td>5100.00</td><td>58.86</td><td>74.00</td><td>-15.14</td><td>54.43</td><td>4.43</td><td>Peak</td><td>126</td><td>27</td></tr><tr><td>3</td><td>5150.00</td><td>44.66</td><td>54.00</td><td>-9.34</td><td>40.18</td><td>4.48</td><td>Average</td><td>126</td><td>27</td></tr><tr><td>4</td><td>5150.00</td><td>57.44</td><td>74.00</td><td>-16.56</td><td>52.96</td><td>4.48</td><td>Peak</td><td>126</td><td>27</td></tr><tr><td>5</td><td>5350.00</td><td>45.11</td><td>54.00</td><td>-8.89</td><td>40.37</td><td>4.74</td><td>Average</td><td>126</td><td>27</td></tr><tr><td>6</td><td>5350.00</td><td>57.51</td><td>74.00</td><td>-16.49</td><td>52.77</td><td>4.74</td><td>Peak</td><td>126</td><td>27</td></tr><tr><td>7</td><td>5420.00</td><td>46.18</td><td>54.00</td><td>-7.82</td><td>41.33</td><td>4.85</td><td>Average</td><td>126</td><td>27</td></tr><tr><td>8</td><td>5420.00</td><td>48.33</td><td>74.00</td><td>-25.67</td><td>43.48</td><td>4.85</td><td>Peak</td><td>126</td><td>27</td></tr><tr><td>9</td><td>10520.00</td><td>58.74</td><td>68.20</td><td>-9.46</td><td>44.73</td><td>14.01</td><td>Peak</td><td>182</td><td>188</td></tr><tr><td>10</td><td>15780.00</td><td>42.63</td><td>54.00</td><td>-11.37</td><td>28.62</td><td>14.01</td><td>Average</td><td>100</td><td>253</td></tr><tr><td>11</td><td>15780.00</td><td>54.89</td><td>74.00</td><td>-19.11</td><td>40.88</td><td>14.01</td><td>Peak</td><td>100</td><td>253</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	5100.00	47.22	54.00	-6.78	42.79	4.43	Average	126	27	2	5100.00	58.86	74.00	-15.14	54.43	4.43	Peak	126	27	3	5150.00	44.66	54.00	-9.34	40.18	4.48	Average	126	27	4	5150.00	57.44	74.00	-16.56	52.96	4.48	Peak	126	27	5	5350.00	45.11	54.00	-8.89	40.37	4.74	Average	126	27	6	5350.00	57.51	74.00	-16.49	52.77	4.74	Peak	126	27	7	5420.00	46.18	54.00	-7.82	41.33	4.85	Average	126	27	8	5420.00	48.33	74.00	-25.67	43.48	4.85	Peak	126	27	9	10520.00	58.74	68.20	-9.46	44.73	14.01	Peak	182	188	10	15780.00	42.63	54.00	-11.37	28.62	14.01	Average	100	253	11	15780.00	54.89	74.00	-19.11	40.88	14.01	Peak	100	253
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																						
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1	5100.00	47.22	54.00	-6.78	42.79	4.43	Average	126	27																																																																																																																																						
2	5100.00	58.86	74.00	-15.14	54.43	4.43	Peak	126	27																																																																																																																																						
3	5150.00	44.66	54.00	-9.34	40.18	4.48	Average	126	27																																																																																																																																						
4	5150.00	57.44	74.00	-16.56	52.96	4.48	Peak	126	27																																																																																																																																						
5	5350.00	45.11	54.00	-8.89	40.37	4.74	Average	126	27																																																																																																																																						
6	5350.00	57.51	74.00	-16.49	52.77	4.74	Peak	126	27																																																																																																																																						
7	5420.00	46.18	54.00	-7.82	41.33	4.85	Average	126	27																																																																																																																																						
8	5420.00	48.33	74.00	-25.67	43.48	4.85	Peak	126	27																																																																																																																																						
9	10520.00	58.74	68.20	-9.46	44.73	14.01	Peak	182	188																																																																																																																																						
10	15780.00	42.63	54.00	-11.37	28.62	14.01	Average	100	253																																																																																																																																						
11	15780.00	54.89	74.00	-19.11	40.88	14.01	Peak	100	253																																																																																																																																						
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Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		
Level (dBuV/m)			

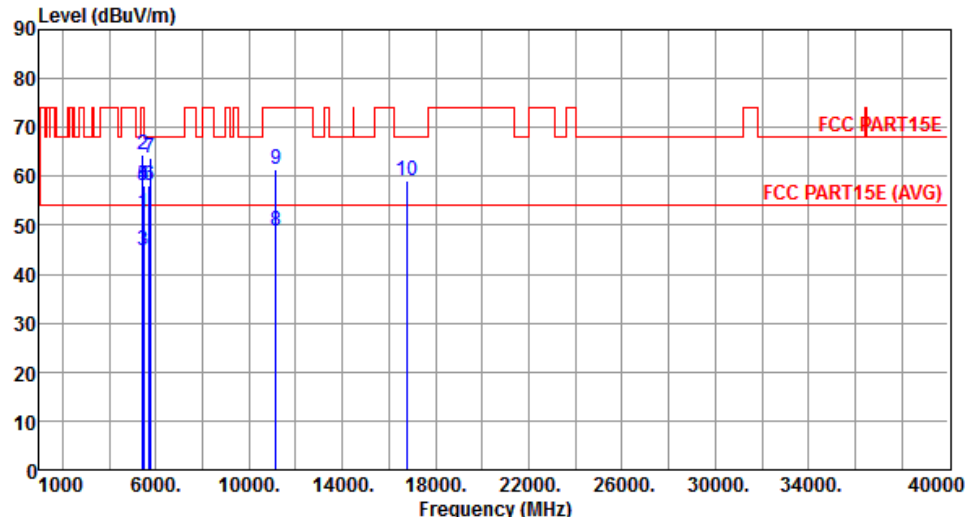
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Modulation	VHT20	Test Freq. (MHz)	5320																																																																																																																																		
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Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		
Level (dBuV/m) </			

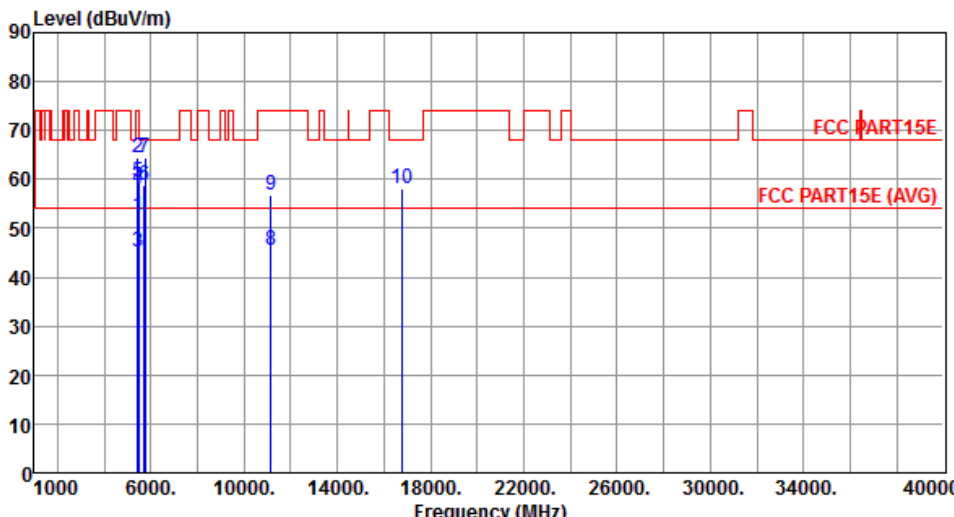
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
MHz	level	dBuV/m	dB	reading	dB		High	Table
							cm	deg
1	5420.00	52.59	54.00	-1.41	47.74	4.85	Average	175 302
2	5420.00	64.46	74.00	-9.54	59.61	4.85	Peak	175 302
3	5460.00	44.96	54.00	-9.04	40.07	4.89	Average	175 302
4	5460.00	57.96	74.00	-16.04	53.07	4.89	Peak	175 302
5	5470.00	58.12	68.20	-10.08	53.21	4.91	Peak	175 302
6	5725.00	58.08	68.20	-10.12	52.76	5.32	Peak	215 267
7	5740.00	63.82	68.20	-4.38	58.48	5.34	Peak	215 267
8	11160.00	48.93	54.00	-5.07	34.21	14.72	Average	136 242
9	11160.00	61.48	74.00	-12.52	46.76	14.72	Peak	136 242
10	16740.00	59.09	68.20	-9.11	42.61	16.48	Peak	100 275

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

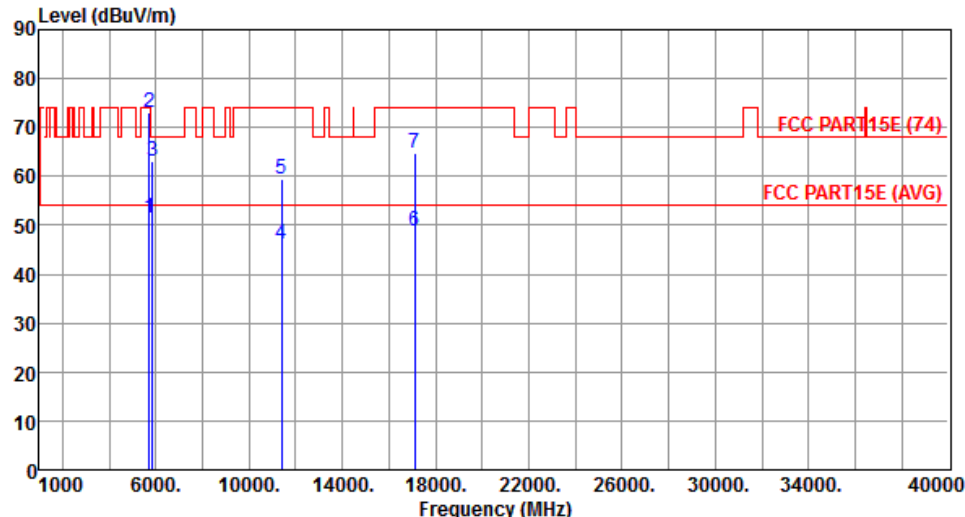
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		

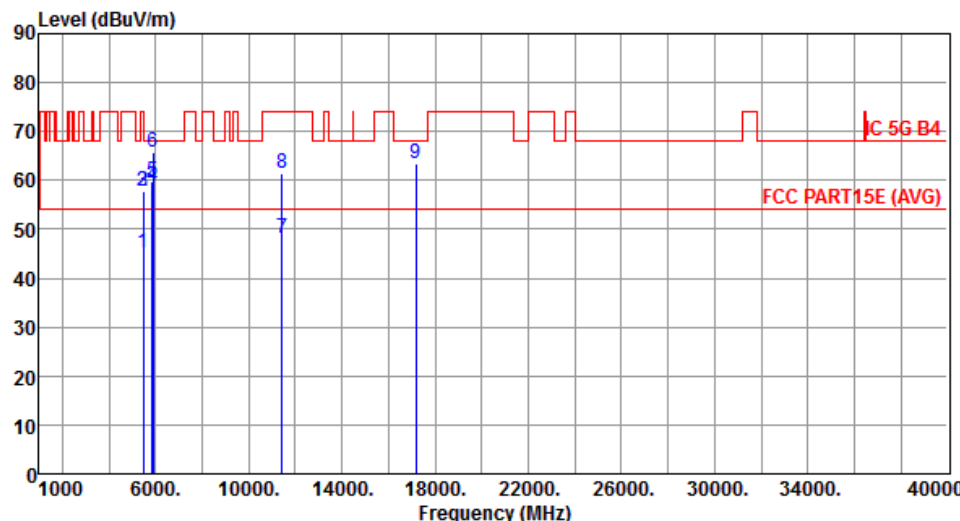


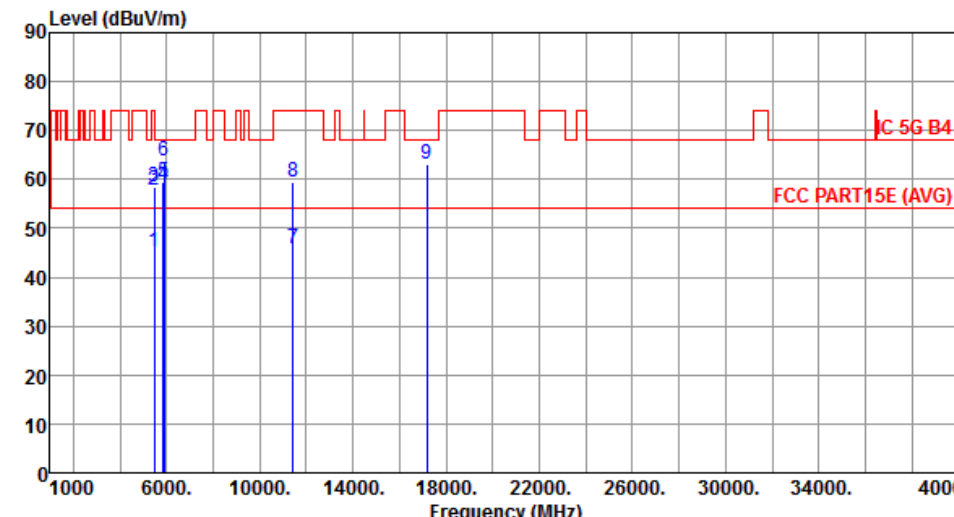
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5420.00	52.41	54.00	-1.59	47.56	4.85	Average	178	15
2	5420.00	64.31	74.00	-9.69	59.46	4.85	Peak	178	15
3	5460.00	45.12	54.00	-8.88	40.23	4.89	Average	178	15
4	5460.00	58.15	74.00	-15.85	53.26	4.89	Peak	178	15
5	5470.00	59.33	68.20	-8.87	54.42	4.91	Peak	178	15
6	5725.00	58.62	68.20	-9.58	53.30	5.32	Peak	178	15
7	5740.00	64.54	68.20	-3.66	59.20	5.34	Peak	178	15
8	11160.00	45.47	54.00	-8.53	30.75	14.72	Average	141	302
9	11160.00	56.86	74.00	-17.14	42.14	14.72	Peak	141	302
10	16740.00	58.13	68.20	-10.07	41.65	16.48	Peak	146	310

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

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		
Level (dBUV/m)			

Modulation	VHT20	Test Freq. (MHz)	5700																																																																																
Polarization	Vertical																																																																																		
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5725.00</td><td>51.60</td><td>54.00</td><td>-2.40</td><td>46.28</td><td>5.32</td><td>Average</td><td>177</td><td>18</td></tr><tr><td>2</td><td>5725.00</td><td>72.99</td><td>74.00</td><td>-1.01</td><td>67.67</td><td>5.32</td><td>Peak</td><td>177</td><td>18</td></tr><tr><td>3</td><td>5860.00</td><td>62.97</td><td>68.20</td><td>-5.23</td><td>57.43</td><td>5.54</td><td>Peak</td><td>177</td><td>18</td></tr><tr><td>4</td><td>11400.00</td><td>46.02</td><td>54.00</td><td>-7.98</td><td>31.23</td><td>14.79</td><td>Average</td><td>249</td><td>241</td></tr><tr><td>5</td><td>11400.00</td><td>59.40</td><td>74.00</td><td>-14.60</td><td>44.61</td><td>14.79</td><td>Peak</td><td>249</td><td>241</td></tr><tr><td>6</td><td>17100.00</td><td>48.92</td><td>54.00</td><td>-5.08</td><td>31.55</td><td>17.37</td><td>Average</td><td>172</td><td>234</td></tr><tr><td>7</td><td>17100.00</td><td>64.85</td><td>74.00</td><td>-9.15</td><td>47.48</td><td>17.37</td><td>Peak</td><td>172</td><td>234</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5725.00	51.60	54.00	-2.40	46.28	5.32	Average	177	18	2	5725.00	72.99	74.00	-1.01	67.67	5.32	Peak	177	18	3	5860.00	62.97	68.20	-5.23	57.43	5.54	Peak	177	18	4	11400.00	46.02	54.00	-7.98	31.23	14.79	Average	249	241	5	11400.00	59.40	74.00	-14.60	44.61	14.79	Peak	249	241	6	17100.00	48.92	54.00	-5.08	31.55	17.37	Average	172	234	7	17100.00	64.85	74.00	-9.15	47.48	17.37	Peak	172	234
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																										
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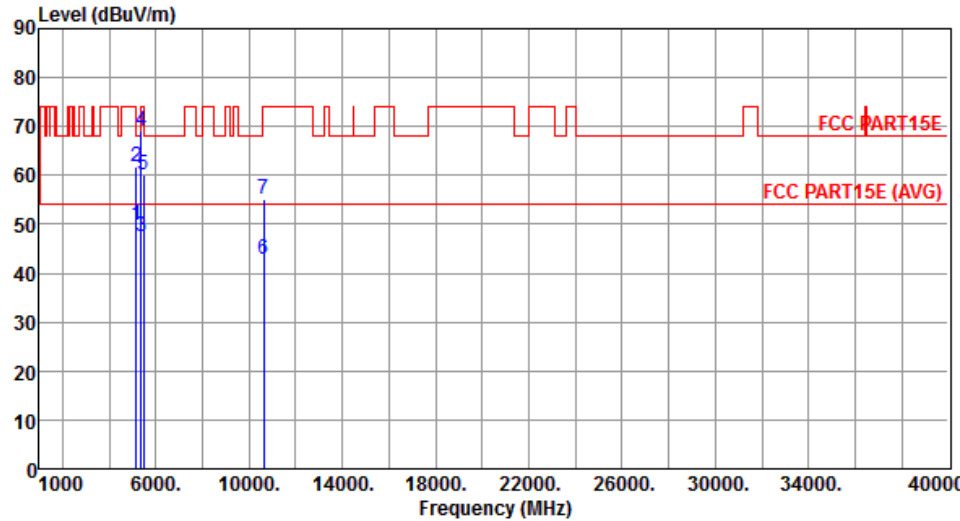
Modulation	VHT20	Test Freq. (MHz)	5720																																																																																																				
Polarization	Horizontal																																																																																																						
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5460.00</td><td>45.23</td><td>54.00</td><td>-8.77</td><td>40.34</td><td>4.89</td><td>Average</td><td>216</td><td>271</td></tr><tr><td>2</td><td>5460.00</td><td>57.65</td><td>74.00</td><td>-16.35</td><td>52.76</td><td>4.89</td><td>Peak</td><td>216</td><td>271</td></tr><tr><td>3</td><td>5470.00</td><td>57.79</td><td>68.20</td><td>-10.41</td><td>52.88</td><td>4.91</td><td>Peak</td><td>216</td><td>264</td></tr><tr><td>4</td><td>5850.00</td><td>58.82</td><td>78.20</td><td>-19.38</td><td>53.30</td><td>5.52</td><td>Peak</td><td>216</td><td>264</td></tr><tr><td>5</td><td>5860.00</td><td>59.64</td><td>68.20</td><td>-8.56</td><td>54.10</td><td>5.54</td><td>Peak</td><td>216</td><td>264</td></tr><tr><td>6</td><td>5880.00</td><td>65.91</td><td>68.20</td><td>-2.29</td><td>60.34</td><td>5.57</td><td>Peak</td><td>216</td><td>264</td></tr><tr><td>7</td><td>11440.00</td><td>48.26</td><td>54.00</td><td>-5.74</td><td>33.46</td><td>14.80</td><td>Average</td><td>175</td><td>234</td></tr><tr><td>8</td><td>11440.00</td><td>61.54</td><td>74.00</td><td>-12.46</td><td>46.74</td><td>14.80</td><td>Peak</td><td>175</td><td>234</td></tr><tr><td>9</td><td>17160.00</td><td>63.59</td><td>68.20</td><td>-4.61</td><td>46.07</td><td>17.52</td><td>Peak</td><td>116</td><td>265</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	5460.00	45.23	54.00	-8.77	40.34	4.89	Average	216	271	2	5460.00	57.65	74.00	-16.35	52.76	4.89	Peak	216	271	3	5470.00	57.79	68.20	-10.41	52.88	4.91	Peak	216	264	4	5850.00	58.82	78.20	-19.38	53.30	5.52	Peak	216	264	5	5860.00	59.64	68.20	-8.56	54.10	5.54	Peak	216	264	6	5880.00	65.91	68.20	-2.29	60.34	5.57	Peak	216	264	7	11440.00	48.26	54.00	-5.74	33.46	14.80	Average	175	234	8	11440.00	61.54	74.00	-12.46	46.74	14.80	Peak	175	234	9	17160.00	63.59	68.20	-4.61	46.07	17.52	Peak	116	265
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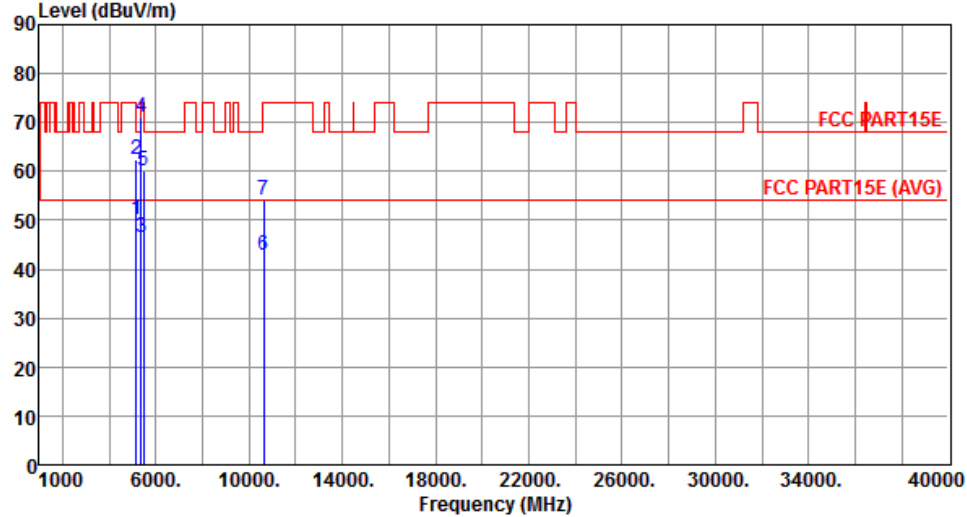
Modulation	VHT20	Test Freq. (MHz)	5720																																																																																																																								
Polarization	Vertical																																																																																																																										
Level (dBuV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5460.00</td><td>45.24</td><td>54.00</td><td>-8.76</td><td>40.35</td><td>4.89</td><td>Average</td><td>177</td><td>19</td></tr><tr><td>2</td><td>5460.00</td><td>57.71</td><td>74.00</td><td>-16.29</td><td>52.82</td><td>4.89</td><td>Peak</td><td>177</td><td>19</td></tr><tr><td>3</td><td>5470.00</td><td>58.31</td><td>68.20</td><td>-9.89</td><td>53.40</td><td>4.91</td><td>Peak</td><td>177</td><td>19</td></tr><tr><td>4</td><td>5850.00</td><td>58.82</td><td>78.20</td><td>-19.38</td><td>53.30</td><td>5.52</td><td>Peak</td><td>177</td><td>19</td></tr><tr><td>5</td><td>5860.00</td><td>59.46</td><td>68.20</td><td>-8.74</td><td>53.92</td><td>5.54</td><td>Peak</td><td>177</td><td>19</td></tr><tr><td>6</td><td>5880.00</td><td>63.80</td><td>68.20</td><td>-4.40</td><td>58.23</td><td>5.57</td><td>Peak</td><td>177</td><td>19</td></tr><tr><td>7</td><td>11440.00</td><td>45.96</td><td>54.00</td><td>-8.04</td><td>31.16</td><td>14.80</td><td>Average</td><td>108</td><td>88</td></tr><tr><td>8</td><td>11440.00</td><td>59.45</td><td>74.00</td><td>-14.55</td><td>44.65</td><td>14.80</td><td>Peak</td><td>108</td><td>88</td></tr><tr><td>9</td><td>17160.00</td><td>63.26</td><td>68.20</td><td>-4.94</td><td>45.74</td><td>17.52</td><td>Peak</td><td>148</td><td>244</td></tr></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table									cm	deg	1	5460.00	45.24	54.00	-8.76	40.35	4.89	Average	177	19	2	5460.00	57.71	74.00	-16.29	52.82	4.89	Peak	177	19	3	5470.00	58.31	68.20	-9.89	53.40	4.91	Peak	177	19	4	5850.00	58.82	78.20	-19.38	53.30	5.52	Peak	177	19	5	5860.00	59.46	68.20	-8.74	53.92	5.54	Peak	177	19	6	5880.00	63.80	68.20	-4.40	58.23	5.57	Peak	177	19	7	11440.00	45.96	54.00	-8.04	31.16	14.80	Average	108	88	8	11440.00	59.45	74.00	-14.55	44.65	14.80	Peak	108	88	9	17160.00	63.26	68.20	-4.94	45.74	17.52	Peak	148	244
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		
Level (dBuV/m) <			

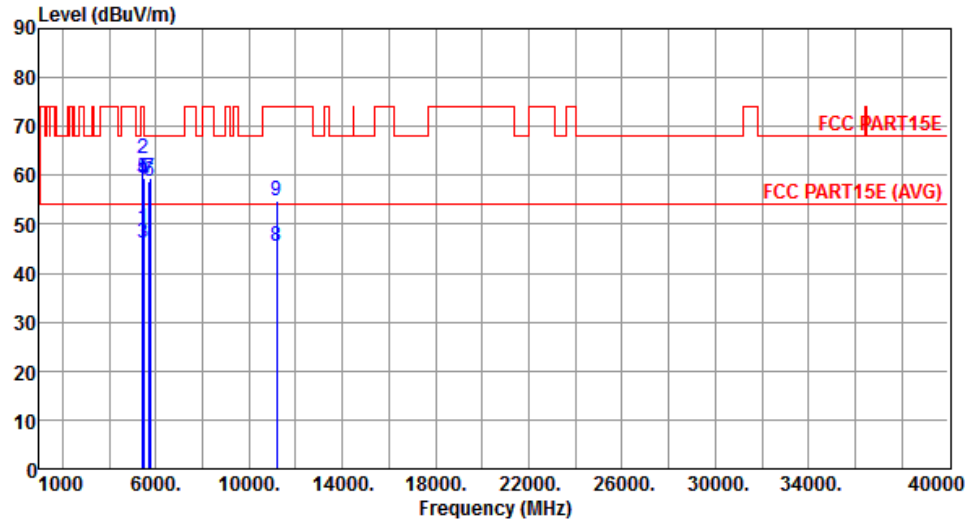
Modulation	VHT40	Test Freq. (MHz)	5310						
Polarization	Horizontal								
 Level (dBUV/m) Frequency (MHz) FCC PART15E FCC PART15E (AVG)									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.93	54.00	-4.07	45.45	4.48	Average	163	290
2	5150.00	61.92	74.00	-12.08	57.44	4.48	Peak	163	290
3	5350.00	47.47	54.00	-6.53	42.73	4.74	Average	163	290
4	5350.00	69.13	74.00	-4.87	64.39	4.74	Peak	163	290
5	5470.00	60.00	68.20	-8.20	55.09	4.91	Peak	163	290
6	10620.00	42.79	54.00	-11.21	28.65	14.14	Average	318	214
7	10620.00	54.97	74.00	-19.03	40.83	14.14	Peak	318	214
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).									

Modulation	VHT40	Test Freq. (MHz)	5310																																																																																
Polarization	Vertical																																																																																		
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																										
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Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		
Level (dBuV/m) </			

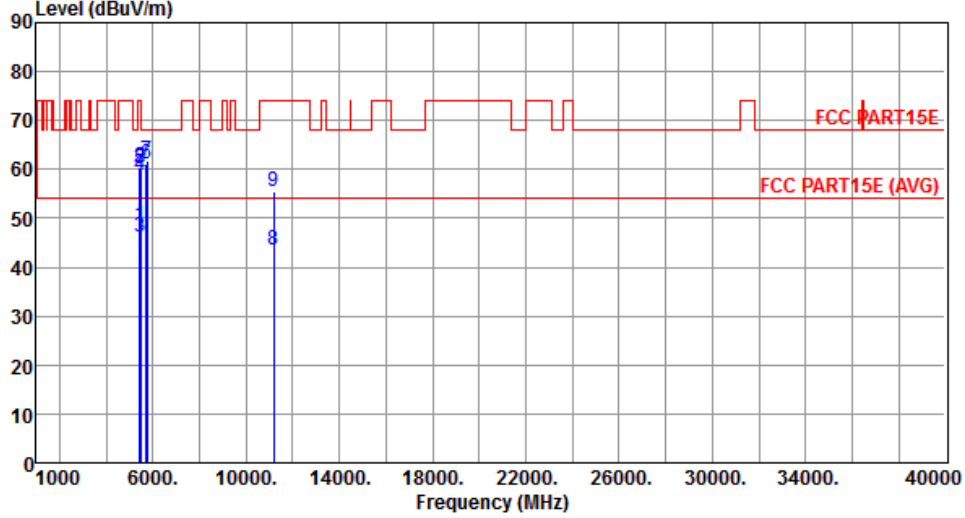
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5430.00	49.05	54.00	-4.95	44.20	4.85	Average	165	289
2	5430.00	63.32	74.00	-10.68	58.47	4.85	Peak	165	289
3	5460.00	46.02	54.00	-7.98	41.13	4.89	Average	165	289
4	5460.00	59.10	74.00	-14.90	54.21	4.89	Peak	165	289
5	5470.00	59.58	68.20	-8.62	54.67	4.91	Peak	165	289
6	5725.00	58.84	68.20	-9.36	53.52	5.32	Peak	165	289
7	5750.00	59.56	68.20	-8.64	54.19	5.37	Peak	165	289
8	11180.00	45.45	54.00	-8.55	30.72	14.73	Average	120	101
9	11180.00	54.74	74.00	-19.26	40.01	14.73	Peak	120	101

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

Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		



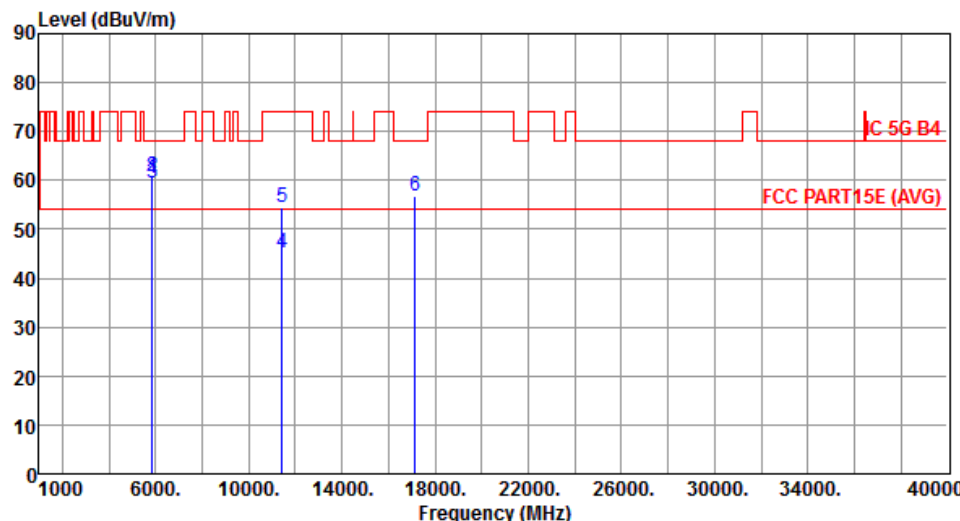
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5430.00	48.63	54.00	-5.37	43.78	4.85	Average	204	2
2	5430.00	60.49	74.00	-13.51	55.64	4.85	Peak	204	2
3	5460.00	46.30	54.00	-7.70	41.41	4.89	Average	204	2
4	5460.00	58.78	74.00	-15.22	53.89	4.89	Peak	204	2
5	5470.00	60.19	68.20	-8.01	55.28	4.91	Peak	204	2
6	5725.00	61.18	68.20	-7.02	55.86	5.32	Peak	204	2
7	5750.00	61.93	68.20	-6.27	56.56	5.37	Peak	204	2
8	11180.00	43.55	54.00	-10.45	28.82	14.73	Average	190	286
9	11180.00	55.48	74.00	-18.52	40.75	14.73	Peak	190	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).

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal		



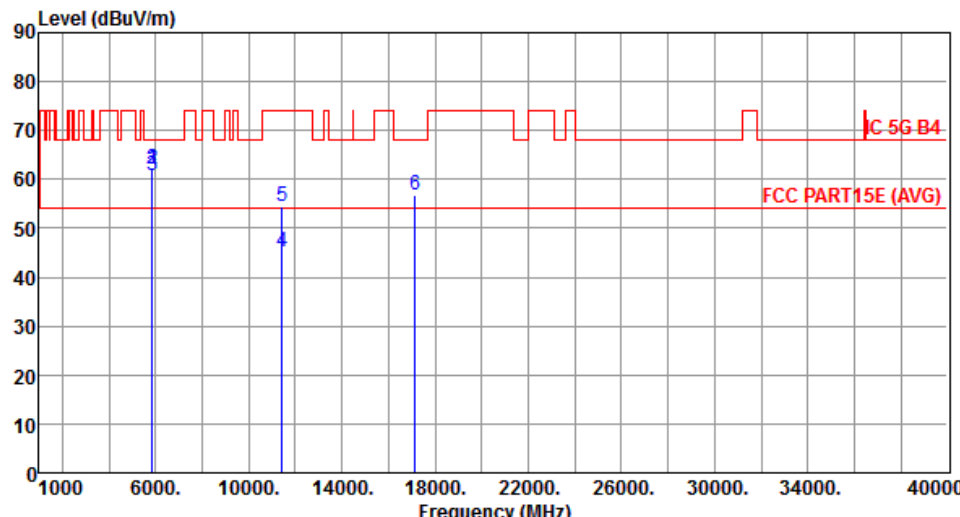
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	60.30	78.20	-17.90	54.78	5.52	Peak	141	298
2	5860.00	60.67	68.20	-7.53	55.13	5.54	Peak	141	298
3	5870.00	59.50	68.20	-8.70	53.95	5.55	Peak	141	298
4	11420.00	45.16	54.00	-8.84	30.36	14.80	Average	150	94
5	11420.00	54.59	74.00	-19.41	39.79	14.80	Peak	150	94
6	17130.00	56.93	68.20	-11.27	39.48	17.45	Peak	100	267

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical		

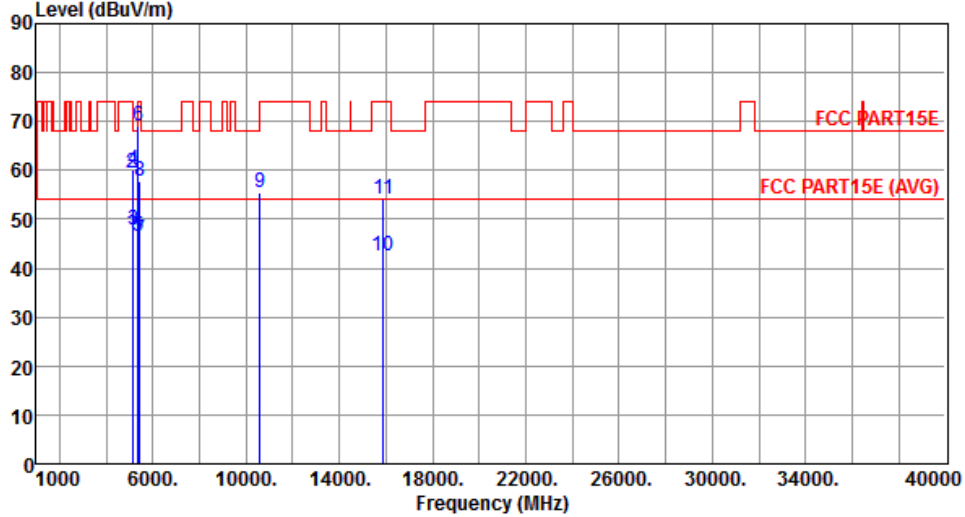


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	62.01	78.20	-16.19	56.49	5.52	Peak	188	7
2	5860.00	61.99	68.20	-6.21	56.45	5.54	Peak	188	7
3	5870.00	60.62	68.20	-7.58	55.07	5.55	Peak	188	7
4	11420.00	45.23	54.00	-8.77	30.43	14.80	Average	144	97
5	11420.00	54.63	74.00	-19.37	39.83	14.80	Peak	144	97
6	17130.00	56.84	68.20	-11.36	39.39	17.45	Peak	128	256

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

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

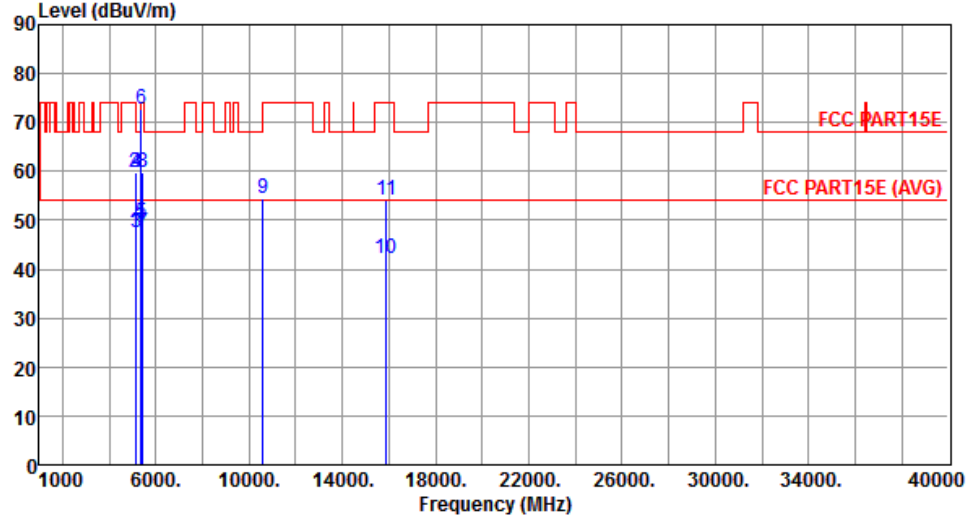
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5130.00	47.30	54.00	-6.70	42.84	4.46	Average	215	286
2	5130.00	59.30	74.00	-14.70	54.84	4.46	Peak	215	286
3	5150.00	47.70	54.00	-6.30	43.22	4.48	Average	215	286
4	5150.00	60.05	74.00	-13.95	55.57	4.48	Peak	215	286
5	5350.00	46.63	54.00	-7.37	41.89	4.74	Average	215	286
6	5350.00	69.01	74.00	-4.99	64.27	4.74	Peak	215	286
7	5450.00	45.88	54.00	-8.12	41.00	4.88	Average	215	286
8	5450.00	57.92	74.00	-16.08	53.04	4.88	Peak	215	286
9	10580.00	55.35	68.20	-12.85	41.25	14.10	Peak	142	228
10	15870.00	42.67	54.00	-11.33	28.80	13.87	Average	172	245
11	15870.00	54.27	74.00	-19.73	40.40	13.87	Peak	172	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).

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		



Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5130.00	47.36	54.00	-6.64	42.90	4.46	Average	216 12
2	5130.00	59.74	74.00	-14.26	55.28	4.46	Peak	216 12
3	5150.00	47.54	54.00	-6.46	43.06	4.48	Average	216 12
4	5150.00	59.72	74.00	-14.28	55.24	4.48	Peak	216 12
5	5350.00	49.44	54.00	-4.56	44.70	4.74	Average	216 12
6	5350.00	72.76	74.00	-1.24	68.02	4.74	Peak	216 12
7	5450.00	47.48	54.00	-6.52	42.60	4.88	Average	216 12
8	5450.00	59.78	74.00	-14.22	54.90	4.88	Peak	216 12
9	10580.00	54.49	68.20	-13.71	40.39	14.10	Peak	129 85
10	15870.00	42.02	54.00	-11.98	28.15	13.87	Average	175 244
11	15870.00	54.25	74.00	-19.75	40.38	13.87	Peak	175 244

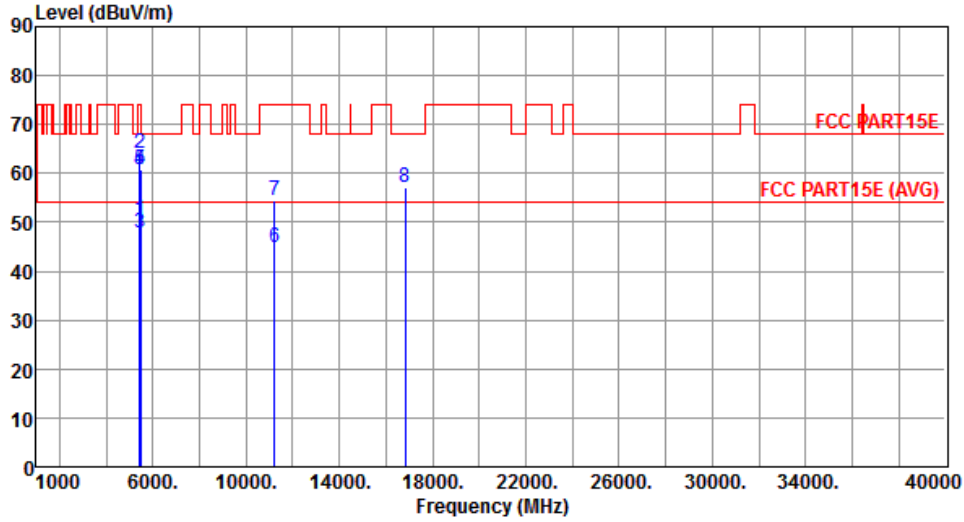
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5130.00	47.36	54.00	-6.64	42.90	4.46	Average	216 12
2	5130.00	59.74	74.00	-14.26	55.28	4.46	Peak	216 12
3	5150.00	47.54	54.00	-6.46	43.06	4.48	Average	216 12
4	5150.00	59.72	74.00	-14.28	55.24	4.48	Peak	216 12
5	5350.00	49.44	54.00	-4.56	44.70	4.74	Average	216 12
6	5350.00	72.76	74.00	-1.24	68.02	4.74	Peak	216 12
7	5450.00	47.48	54.00	-6.52	42.60	4.88	Average	216 12
8	5450.00	59.78	74.00	-14.22	54.90	4.88	Peak	216 12
9	10580.00	54.49	68.20	-13.71	40.39	14.10	Peak	129 85
10	15870.00	42.02	54.00	-11.98	28.15	13.87	Average	175 244
11	15870.00	54.25	74.00	-19.75	40.38	13.87	Peak	175 244

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

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5610
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	5450.00	50.38	54.00	-3.62	45.50	4.88	Average	205	3
2	5450.00	63.97	74.00	-10.03	59.09	4.88	Peak	205	3
3	5460.00	47.75	54.00	-6.25	42.86	4.89	Average	205	3
4	5460.00	60.70	74.00	-13.30	55.81	4.89	Peak	205	3
5	5470.00	60.83	68.20	-7.37	55.92	4.91	Peak	205	3
6	11220.00	44.86	54.00	-9.14	30.12	14.74	Average	142	101
7	11220.00	54.41	74.00	-19.59	39.67	14.74	Peak	142	101
8	16830.00	56.98	68.20	-11.22	40.29	16.69	Peak	171	275

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

Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Horizontal		
Level (dBUV/m)			

Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Vertical		
Level (dBuV/m) </			

Beamforming mode

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		
Level (dBuV/m)			

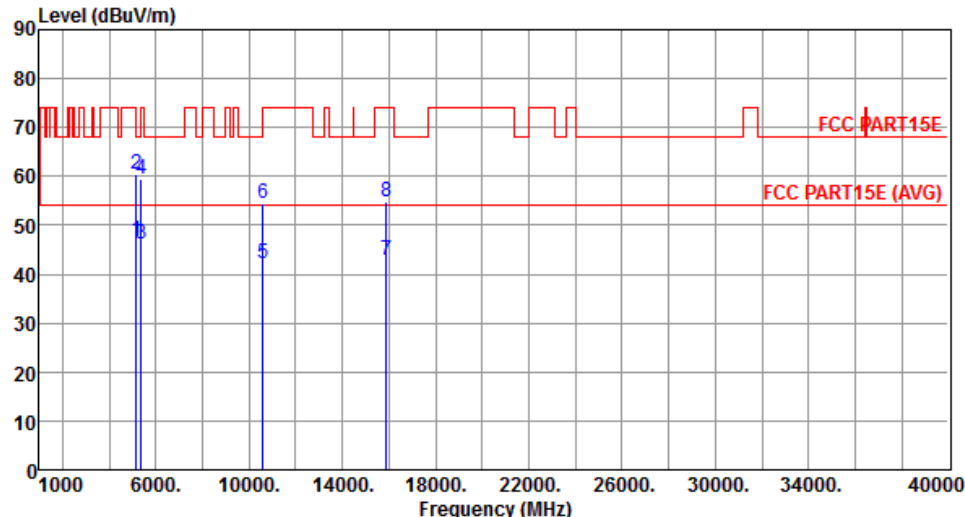
3.5.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5260																																																																																
Polarization	Horizontal																																																																																		
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>47.96</td><td>54.00</td><td>-6.04</td><td>43.48</td><td>4.48</td><td>Average</td><td>100</td><td>17</td></tr><tr><td>2</td><td>5150.00</td><td>58.02</td><td>74.00</td><td>-15.98</td><td>53.54</td><td>4.48</td><td>Peak</td><td>100</td><td>17</td></tr><tr><td>3</td><td>5350.00</td><td>46.58</td><td>54.00</td><td>-7.42</td><td>41.84</td><td>4.74</td><td>Average</td><td>100</td><td>17</td></tr><tr><td>4</td><td>5350.00</td><td>58.66</td><td>74.00</td><td>-15.34</td><td>53.92</td><td>4.74</td><td>Peak</td><td>100</td><td>17</td></tr><tr><td>5</td><td>10520.00</td><td>54.86</td><td>68.20</td><td>-13.34</td><td>40.85</td><td>14.01</td><td>Peak</td><td>100</td><td>297</td></tr><tr><td>6</td><td>15780.00</td><td>42.65</td><td>54.00</td><td>-11.35</td><td>28.64</td><td>14.01</td><td>Average</td><td>135</td><td>208</td></tr><tr><td>7</td><td>15780.00</td><td>54.29</td><td>74.00</td><td>-19.71</td><td>40.28</td><td>14.01</td><td>Peak</td><td>135</td><td>208</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	5150.00	47.96	54.00	-6.04	43.48	4.48	Average	100	17	2	5150.00	58.02	74.00	-15.98	53.54	4.48	Peak	100	17	3	5350.00	46.58	54.00	-7.42	41.84	4.74	Average	100	17	4	5350.00	58.66	74.00	-15.34	53.92	4.74	Peak	100	17	5	10520.00	54.86	68.20	-13.34	40.85	14.01	Peak	100	297	6	15780.00	42.65	54.00	-11.35	28.64	14.01	Average	135	208	7	15780.00	54.29	74.00	-19.71	40.28	14.01	Peak	135	208
	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	47.96	54.00	-6.04	43.48	4.48	Average	100	17																																																																										
2	5150.00	58.02	74.00	-15.98	53.54	4.48	Peak	100	17																																																																										
3	5350.00	46.58	54.00	-7.42	41.84	4.74	Average	100	17																																																																										
4	5350.00	58.66	74.00	-15.34	53.92	4.74	Peak	100	17																																																																										
5	10520.00	54.86	68.20	-13.34	40.85	14.01	Peak	100	297																																																																										
6	15780.00	42.65	54.00	-11.35	28.64	14.01	Average	135	208																																																																										
7	15780.00	54.29	74.00	-19.71	40.28	14.01	Peak	135	208																																																																										
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																			

Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		
Level (dBuV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		

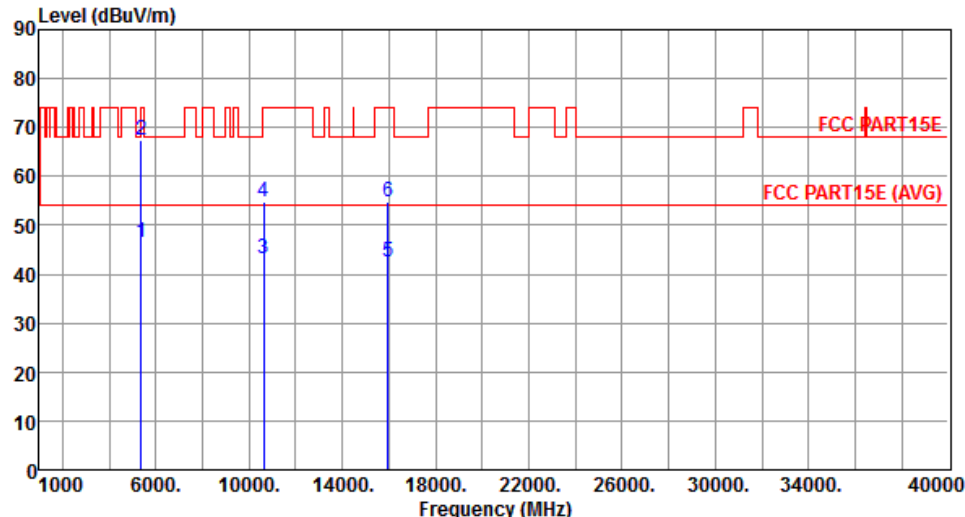


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.87	54.00	-7.13	42.39	4.48	Average	103	285
2	5150.00	60.36	74.00	-13.64	55.88	4.48	Peak	103	285
3	5350.00	46.16	54.00	-7.84	41.42	4.74	Average	103	285
4	5350.00	59.32	74.00	-14.68	54.58	4.74	Peak	103	285
5	10600.00	42.23	54.00	-11.77	28.11	14.12	Average	189	178
6	10600.00	54.40	74.00	-19.60	40.28	14.12	Peak	189	178
7	15900.00	42.82	54.00	-11.18	29.00	13.82	Average	100	242
8	15900.00	54.74	74.00	-19.26	40.92	13.82	Peak	100	242

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

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		
Level (dBUV/m)			

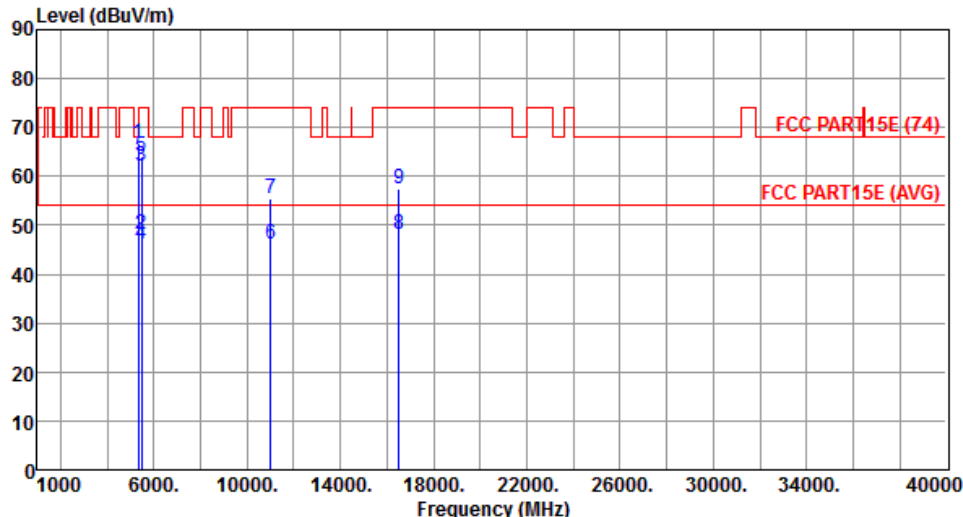
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		



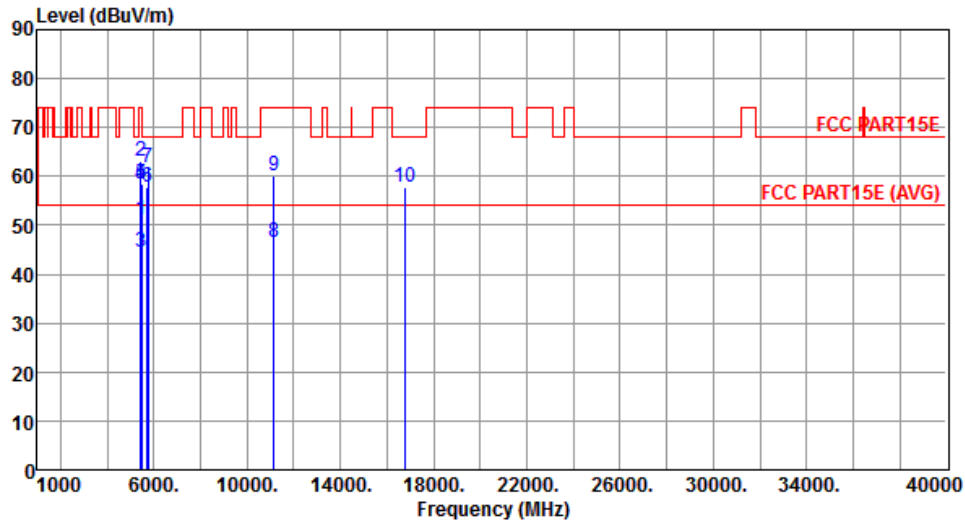
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.60	54.00	-7.40	41.86	4.74	Average	109	19
2	5350.00	67.38	74.00	-6.62	62.64	4.74	Peak	109	19
3	10640.00	43.03	54.00	-10.97	28.85	14.18	Average	182	191
4	10640.00	54.92	74.00	-19.08	40.74	14.18	Peak	182	191
5	15960.00	42.59	54.00	-11.41	28.86	13.73	Average	121	249
6	15960.00	54.88	74.00	-19.12	41.15	13.73	Peak	121	249

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

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
 			

Modulation	VHT20	Test Freq. (MHz)	5500																																																																																																				
Polarization	Vertical																																																																																																						
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5340.00</td><td>66.69</td><td>68.20</td><td>-1.51</td><td>61.97</td><td>4.72</td><td>Peak</td><td>129</td><td>18</td></tr><tr><td>2</td><td>5460.00</td><td>48.17</td><td>54.00</td><td>-5.83</td><td>43.28</td><td>4.89</td><td>Average</td><td>129</td><td>18</td></tr><tr><td>3</td><td>5460.00</td><td>62.04</td><td>74.00</td><td>-11.96</td><td>57.15</td><td>4.89</td><td>Peak</td><td>139</td><td>18</td></tr><tr><td>4</td><td>5470.00</td><td>46.04</td><td>54.00</td><td>-7.96</td><td>41.13</td><td>4.91</td><td>Average</td><td>171</td><td>95</td></tr><tr><td>5</td><td>5470.00</td><td>64.16</td><td>74.00</td><td>-9.84</td><td>59.25</td><td>4.91</td><td>Peak</td><td>171</td><td>95</td></tr><tr><td>6</td><td>11000.00</td><td>46.11</td><td>54.00</td><td>-7.89</td><td>31.43</td><td>14.68</td><td>Average</td><td>131</td><td>194</td></tr><tr><td>7</td><td>11000.00</td><td>55.43</td><td>74.00</td><td>-18.57</td><td>40.75</td><td>14.68</td><td>Peak</td><td>131</td><td>194</td></tr><tr><td>8</td><td>16500.00</td><td>48.14</td><td>54.00</td><td>-5.86</td><td>32.28</td><td>15.86</td><td>Average</td><td>123</td><td>208</td></tr><tr><td>9</td><td>16500.00</td><td>57.54</td><td>74.00</td><td>-16.46</td><td>41.68</td><td>15.86</td><td>Peak</td><td>123</td><td>208</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5340.00	66.69	68.20	-1.51	61.97	4.72	Peak	129	18	2	5460.00	48.17	54.00	-5.83	43.28	4.89	Average	129	18	3	5460.00	62.04	74.00	-11.96	57.15	4.89	Peak	139	18	4	5470.00	46.04	54.00	-7.96	41.13	4.91	Average	171	95	5	5470.00	64.16	74.00	-9.84	59.25	4.91	Peak	171	95	6	11000.00	46.11	54.00	-7.89	31.43	14.68	Average	131	194	7	11000.00	55.43	74.00	-18.57	40.75	14.68	Peak	131	194	8	16500.00	48.14	54.00	-5.86	32.28	15.86	Average	123	208	9	16500.00	57.54	74.00	-16.46	41.68	15.86	Peak	123	208
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
1	5340.00	66.69	68.20	-1.51	61.97	4.72	Peak	129	18																																																																																														
2	5460.00	48.17	54.00	-5.83	43.28	4.89	Average	129	18																																																																																														
3	5460.00	62.04	74.00	-11.96	57.15	4.89	Peak	139	18																																																																																														
4	5470.00	46.04	54.00	-7.96	41.13	4.91	Average	171	95																																																																																														
5	5470.00	64.16	74.00	-9.84	59.25	4.91	Peak	171	95																																																																																														
6	11000.00	46.11	54.00	-7.89	31.43	14.68	Average	131	194																																																																																														
7	11000.00	55.43	74.00	-18.57	40.75	14.68	Peak	131	194																																																																																														
8	16500.00	48.14	54.00	-5.86	32.28	15.86	Average	123	208																																																																																														
9	16500.00	57.54	74.00	-16.46	41.68	15.86	Peak	123	208																																																																																														
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																																																							

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



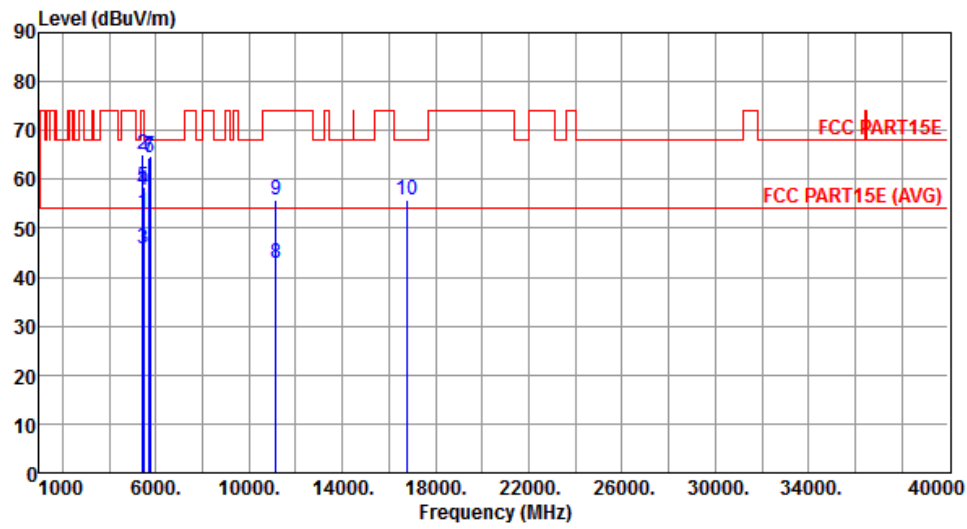
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5420.00	51.14	54.00	-2.86	46.29	4.85	Average	162	300
2	5420.00	63.09	74.00	-10.91	58.24	4.85	Peak	162	300
3	5460.00	44.49	54.00	-9.51	39.60	4.89	Average	162	300
4	5460.00	58.34	74.00	-15.66	53.45	4.89	Peak	162	300
5	5470.00	58.50	68.20	-9.70	53.59	4.91	Peak	162	300
6	5725.00	57.91	68.20	-10.29	52.59	5.32	Peak	162	300
7	5740.00	61.92	68.20	-6.28	56.58	5.34	Peak	162	300
8	11160.00	46.65	54.00	-7.35	31.93	14.72	Average	118	265
9	11160.00	60.20	74.00	-13.80	45.48	14.72	Peak	118	265
10	16740.00	57.85	68.20	-10.35	41.37	16.48	Peak	100	214

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

*Factor includes antenna factor , cable loss and amplifier gain

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

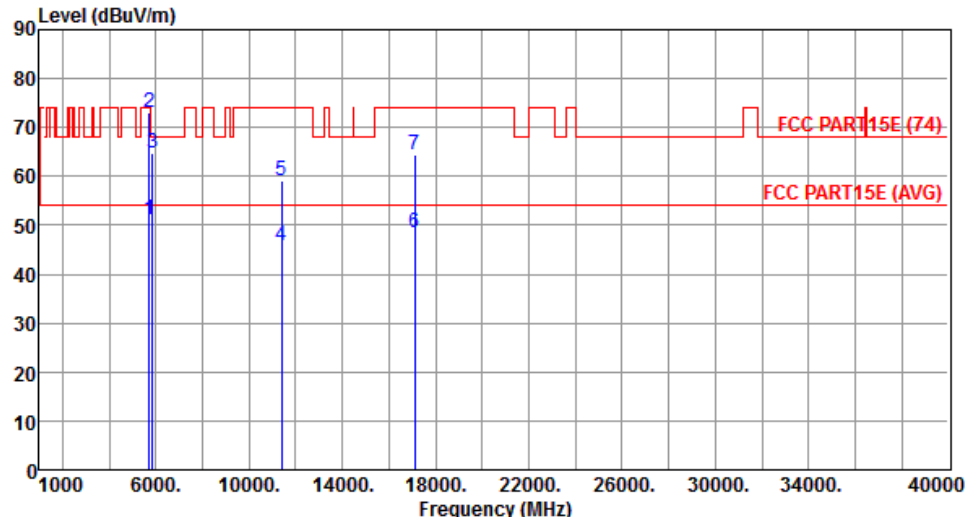
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5420.00	52.98	54.00	-1.02	48.13	4.85	Average	124	325
2	5420.00	65.24	74.00	-8.76	60.39	4.85	Peak	124	325
3	5460.00	45.73	54.00	-8.27	40.84	4.89	Average	124	325
4	5460.00	57.89	74.00	-16.11	53.00	4.89	Peak	124	325
5	5470.00	58.53	68.20	-9.67	53.62	4.91	Peak	124	325
6	5725.00	64.55	68.20	-3.65	59.23	5.32	Peak	124	325
7	5740.00	64.78	68.20	-3.42	59.44	5.34	Peak	124	325
8	11160.00	42.84	54.00	-11.16	28.12	14.72	Average	145	66
9	11160.00	55.66	74.00	-18.34	40.94	14.72	Peak	145	66
10	16740.00	55.68	68.20	-12.52	39.20	16.48	Peak	121	275

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

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		

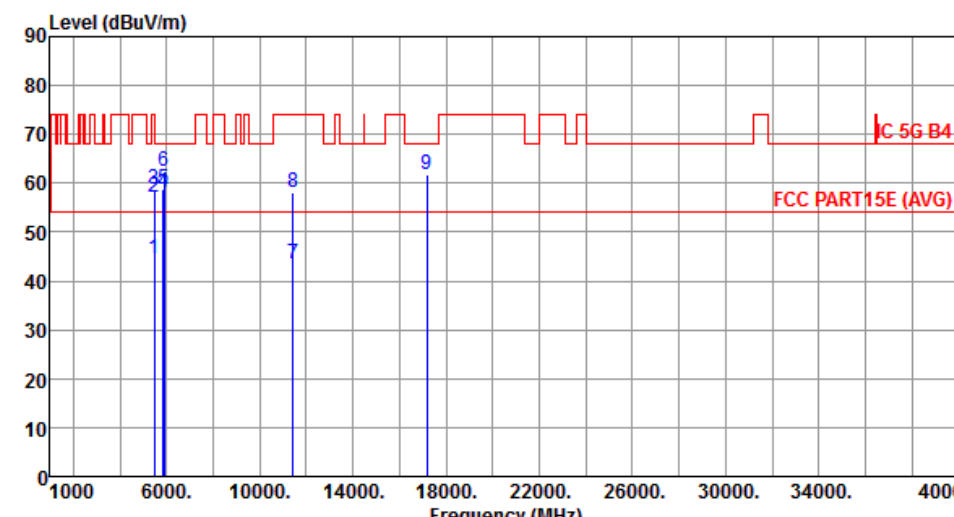


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	51.12	54.00	-2.88	45.80	5.32	Average	100	8
2	5725.00	72.99	74.00	-1.01	67.67	5.32	Peak	100	8
3	5860.00	64.62	68.20	-3.58	59.08	5.54	Peak	100	8
4	11400.00	45.87	54.00	-8.13	31.08	14.79	Average	142	306
5	11400.00	59.16	74.00	-14.84	44.37	14.79	Peak	142	306
6	17100.00	48.42	54.00	-5.58	31.05	17.37	Average	116	211
7	17100.00	64.36	74.00	-9.64	46.99	17.37	Peak	116	211

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

Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Vertical		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5460.00	44.52	54.00	-9.48	39.63	4.89	Average	100	6
2	5460.00	57.23	74.00	-16.77	52.34	4.89	Peak	100	6
3	5470.00	58.90	68.20	-9.30	53.99	4.91	Peak	100	6
4	5850.00	57.96	78.20	-20.24	52.44	5.52	Peak	100	6
5	5860.00	58.82	68.20	-9.38	53.28	5.54	Peak	100	6
6	5880.00	62.60	68.20	-5.60	57.03	5.57	Peak	100	6
7	11440.00	43.64	54.00	-10.36	28.84	14.80	Average	132	289
8	11440.00	58.13	74.00	-15.87	43.33	14.80	Peak	132	289
9	17160.00	61.93	68.20	-6.27	44.41	17.52	Peak	114	215

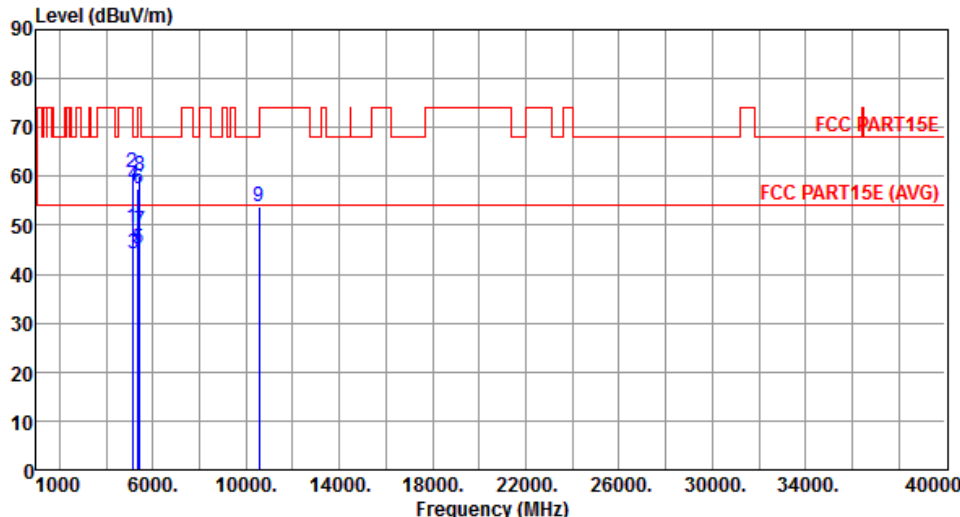
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

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

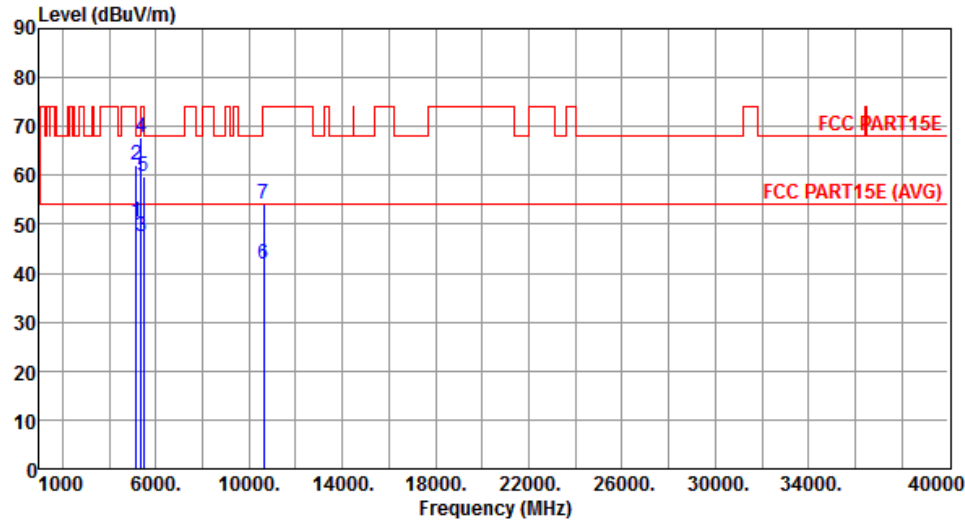
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5110.00	49.40	54.00	-4.60	44.96	4.44	Average	108	298
2	5110.00	60.83	74.00	-13.17	56.39	4.44	Peak	108	298
3	5150.00	44.29	54.00	-9.71	39.81	4.48	Average	108	298
4	5150.00	58.00	74.00	-16.00	53.52	4.48	Peak	108	298
5	5350.00	45.13	54.00	-8.87	40.39	4.74	Average	108	298
6	5350.00	57.53	74.00	-16.47	52.79	4.74	Peak	108	298
7	5430.00	48.71	54.00	-5.29	43.86	4.85	Average	108	298
8	5430.00	60.17	74.00	-13.83	55.32	4.85	Peak	108	298
9	10540.00	53.64	68.20	-14.56	39.60	14.04	Peak	115	274

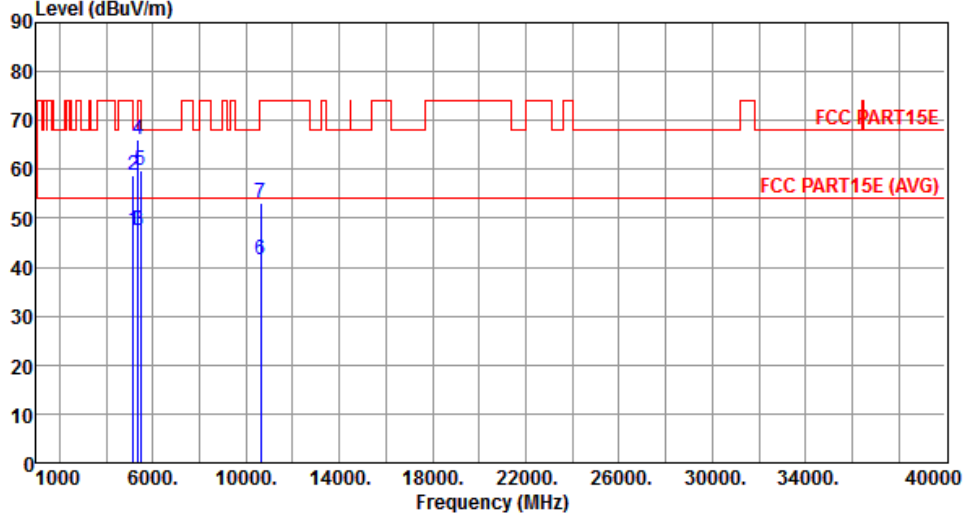
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		
Level (dBuV/m) </			

Modulation	VHT40	Test Freq. (MHz)	5310						
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	50.45	54.00	-3.55	45.97	4.48	Average	115	295
2	5150.00	62.12	74.00	-11.88	57.64	4.48	Peak	115	295
3	5350.00	47.44	54.00	-6.56	42.70	4.74	Average	115	295
4	5350.00	67.63	74.00	-6.37	62.89	4.74	Peak	115	295
5	5470.00	59.90	68.20	-8.30	54.99	4.91	Peak	115	295
6	10620.00	41.68	54.00	-12.32	27.54	14.14	Average	104	282
7	10620.00	54.16	74.00	-19.84	40.02	14.14	Peak	104	282

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

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		



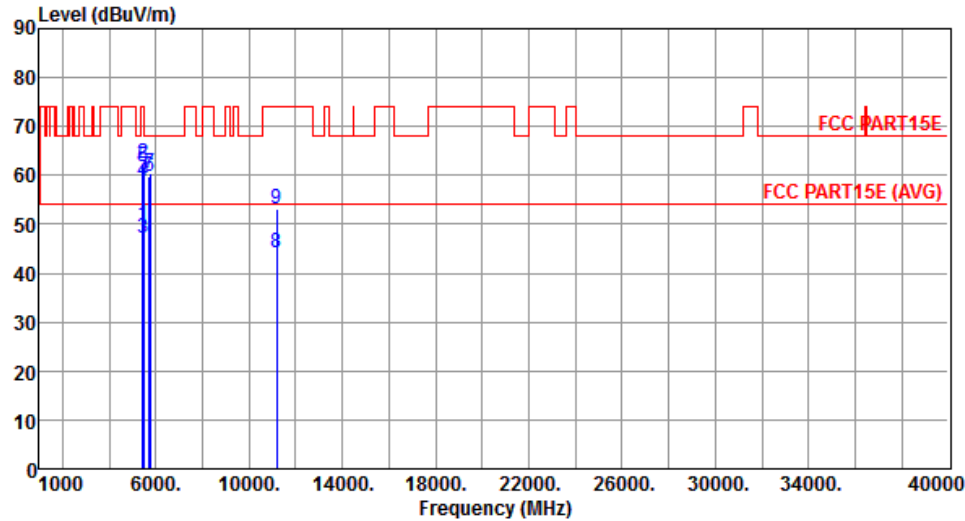
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.46	54.00	-6.54	42.98	4.48	Average	100	17
2	5150.00	58.93	74.00	-15.07	54.45	4.48	Peak	100	17
3	5350.00	47.40	54.00	-6.60	42.66	4.74	Average	100	17
4	5350.00	66.10	74.00	-7.90	61.36	4.74	Peak	100	17
5	5470.00	59.76	68.20	-8.44	54.85	4.91	Peak	100	17
6	10620.00	41.59	54.00	-12.41	27.45	14.14	Average	136	269
7	10620.00	53.16	74.00	-20.84	39.02	14.14	Peak	136	269

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

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5590
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	5430.00	49.78	54.00	-4.22	44.93	4.85	Average	134 289
2	5430.00	62.32	74.00	-11.68	57.47	4.85	Peak	134 289
3	5460.00	47.30	54.00	-6.70	42.41	4.89	Average	134 289
4	5460.00	58.71	74.00	-15.29	53.82	4.89	Peak	134 289
5	5470.00	61.75	68.20	-6.45	56.84	4.91	Peak	134 289
6	5725.00	59.71	68.20	-8.49	54.39	5.32	Peak	134 289
7	5750.00	60.53	68.20	-7.67	55.16	5.37	Peak	134 289
8	11180.00	44.08	54.00	-9.92	29.35	14.73	Average	108 259
9	11180.00	53.01	74.00	-20.99	38.28	14.73	Peak	108 259

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

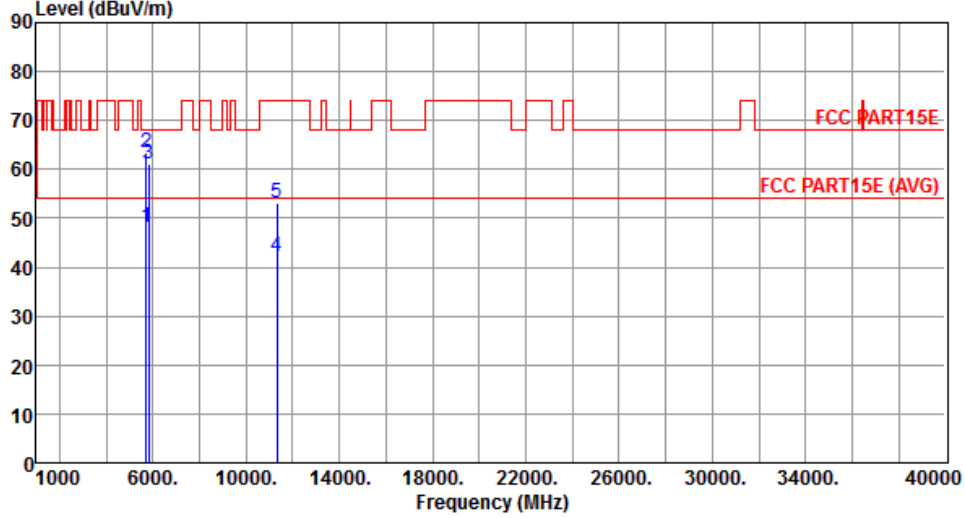
*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		
Level (dBuV/m) </			

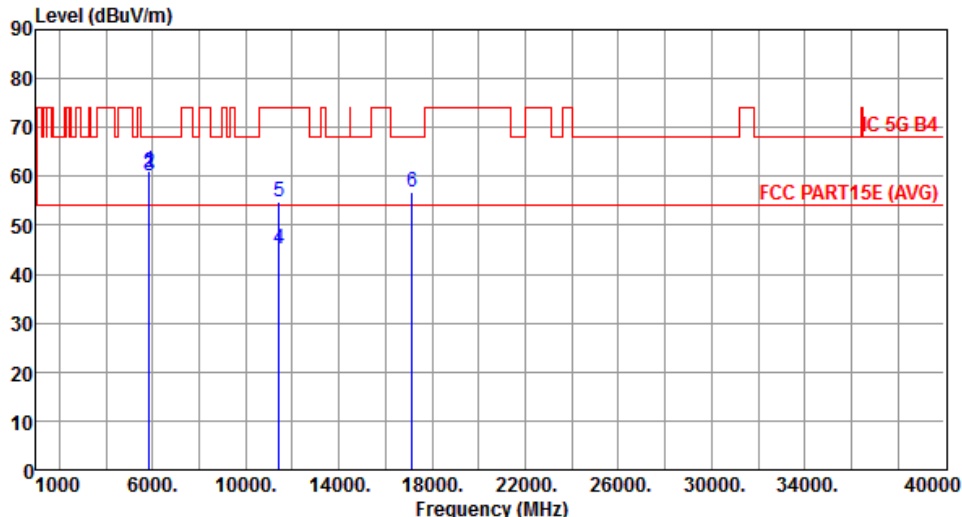
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	48.12	54.00	-5.88	42.80	5.32	Average	107	17
2	5725.00	63.52	68.20	-4.68	58.20	5.32	Peak	107	17
3	5830.00	61.25	68.20	-6.95	55.75	5.50	Peak	107	17
4	11340.00	42.16	54.00	-11.84	27.38	14.78	Average	139	332
5	11340.00	53.24	74.00	-20.76	38.46	14.78	Peak	139	332

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

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal		

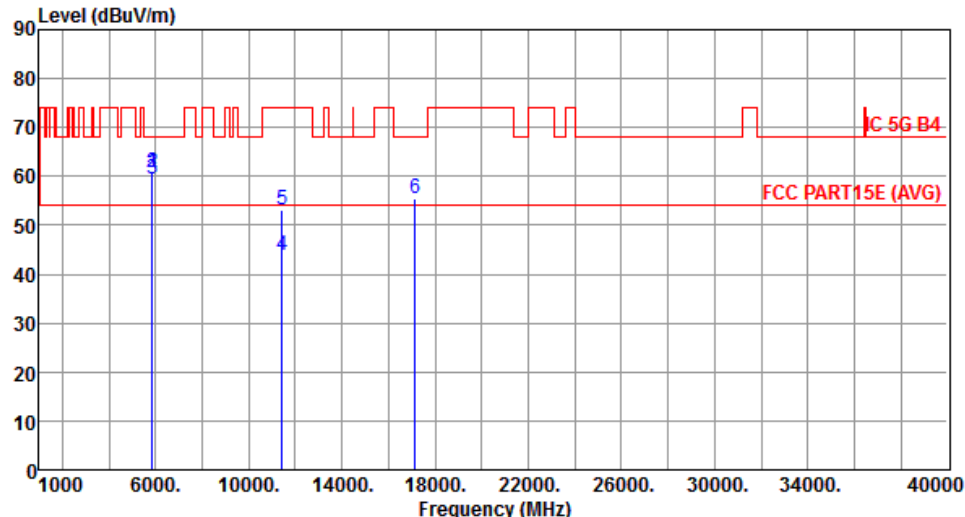


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	61.24	78.20	-16.96	55.72	5.52	Peak	134	302
2	5860.00	60.86	68.20	-7.34	55.32	5.54	Peak	134	302
3	5870.00	60.18	68.20	-8.02	54.63	5.55	Peak	134	302
4	11420.00	45.09	54.00	-8.91	30.29	14.80	Average	277	302
5	11420.00	54.73	74.00	-19.27	39.93	14.80	Peak	277	302
6	17130.00	56.79	68.20	-11.41	39.34	17.45	Peak	100	257

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

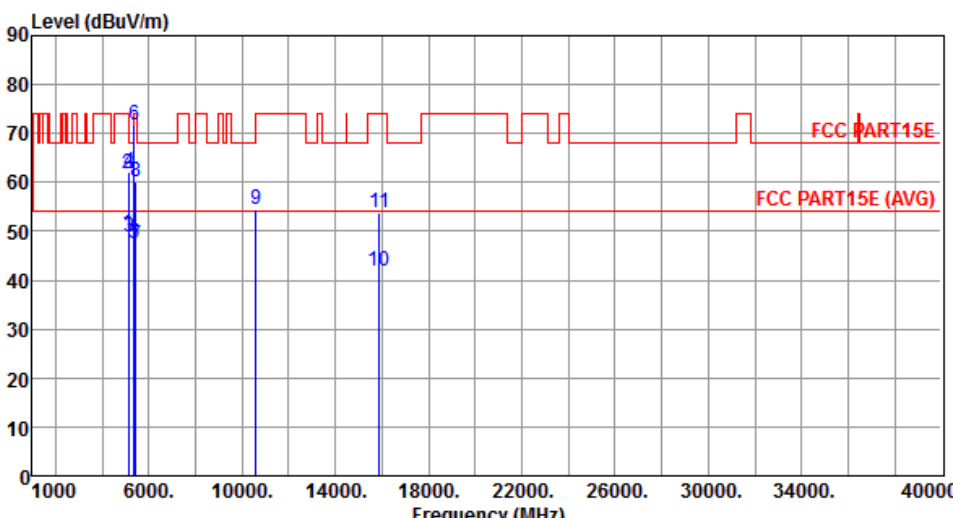
*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5710																																																																																							
Polarization	Vertical																																																																																									
Level (dBUV/m)  <table><tr><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5850.00</td><td>60.73</td><td>78.20</td><td>-17.47</td><td>55.21</td><td>5.52</td><td>Peak</td><td>130</td><td>9</td></tr><tr><td>2</td><td>5860.00</td><td>60.94</td><td>68.20</td><td>-7.26</td><td>55.40</td><td>5.54</td><td>Peak</td><td>130</td><td>9</td></tr><tr><td>3</td><td>5870.00</td><td>59.32</td><td>68.20</td><td>-8.88</td><td>53.77</td><td>5.55</td><td>Peak</td><td>130</td><td>9</td></tr><tr><td>4</td><td>11420.00</td><td>43.86</td><td>54.00</td><td>-10.14</td><td>29.06</td><td>14.80</td><td>Average</td><td>153</td><td>299</td></tr><tr><td>5</td><td>11420.00</td><td>53.27</td><td>74.00</td><td>-20.73</td><td>38.47</td><td>14.80</td><td>Peak</td><td>153</td><td>299</td></tr><tr><td>6</td><td>17130.00</td><td>55.62</td><td>68.20</td><td>-12.58</td><td>38.17</td><td>17.45</td><td>Peak</td><td>113</td><td>205</td></tr></table>				Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBuV/m	dB	reading	dB		High	Table								cm	deg	1	5850.00	60.73	78.20	-17.47	55.21	5.52	Peak	130	9	2	5860.00	60.94	68.20	-7.26	55.40	5.54	Peak	130	9	3	5870.00	59.32	68.20	-8.88	53.77	5.55	Peak	130	9	4	11420.00	43.86	54.00	-10.14	29.06	14.80	Average	153	299	5	11420.00	53.27	74.00	-20.73	38.47	14.80	Peak	153	299	6	17130.00	55.62	68.20	-12.58	38.17	17.45	Peak	113	205
Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																		
MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																		
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1	5850.00	60.73	78.20	-17.47	55.21	5.52	Peak	130	9																																																																																	
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).																																																																																										

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

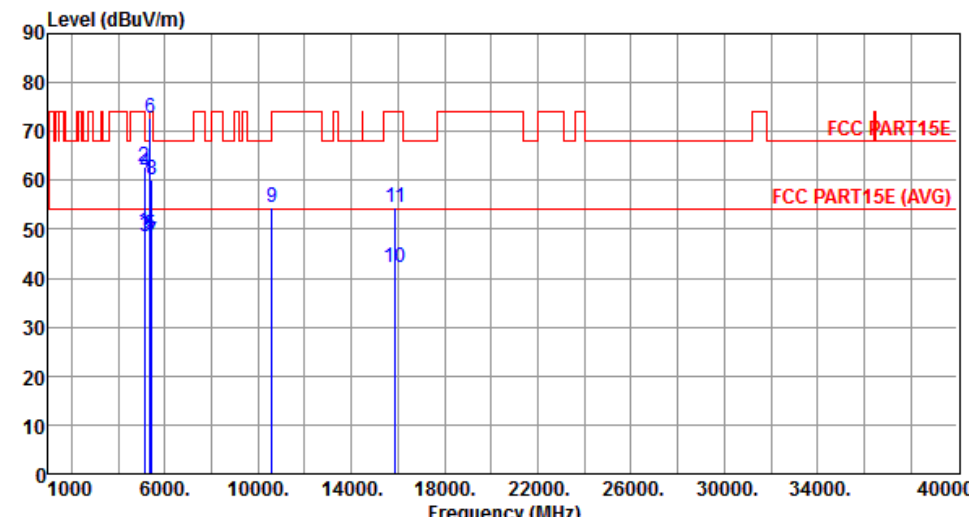
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5130.00	49.56	54.00	-4.44	45.10	4.46	Average	161	300
2	5130.00	61.69	74.00	-12.31	57.23	4.46	Peak	161	300
3	5150.00	48.83	54.00	-5.17	44.35	4.48	Average	161	300
4	5150.00	62.08	74.00	-11.92	57.60	4.48	Peak	161	300
5	5350.00	47.63	54.00	-6.37	42.89	4.74	Average	161	300
6	5350.00	71.86	74.00	-2.14	67.12	4.74	Peak	161	300
7	5450.00	47.10	54.00	-6.90	42.22	4.88	Average	161	300
8	5450.00	60.27	74.00	-13.73	55.39	4.88	Peak	161	300
9	10580.00	54.57	68.20	-13.63	40.47	14.10	Peak	109	251
10	15870.00	41.89	54.00	-12.11	28.02	13.87	Average	100	188
11	15870.00	53.69	74.00	-20.31	39.82	13.87	Peak	100	188

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

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		

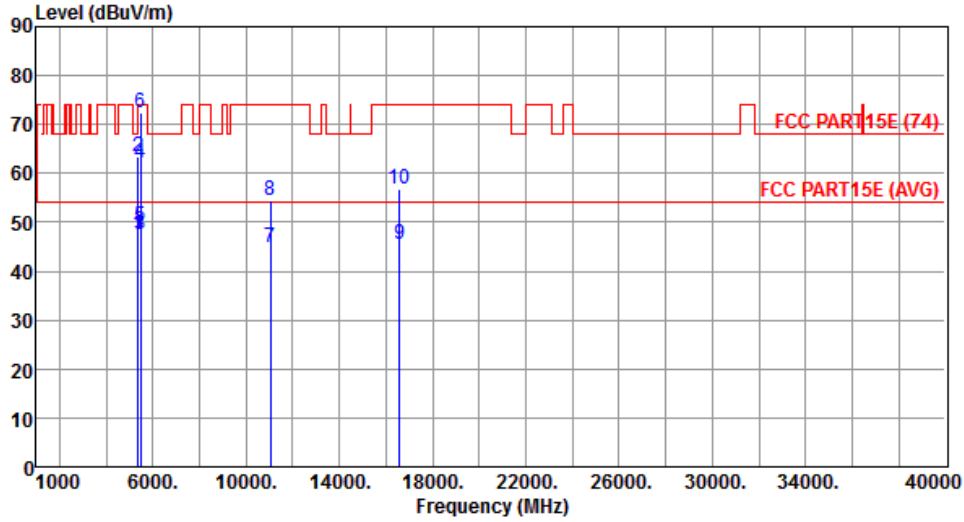


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5130.00	49.37	54.00	-4.63	44.91	4.46	Average	110	14
2	5130.00	62.78	74.00	-11.22	58.32	4.46	Peak	110	14
3	5150.00	48.52	54.00	-5.48	44.04	4.48	Average	110	14
4	5150.00	61.55	74.00	-12.45	57.07	4.48	Peak	110	14
5	5350.00	48.84	54.00	-5.16	44.10	4.74	Average	110	14
6	5350.00	72.64	74.00	-1.36	67.90	4.74	Peak	118	21
7	5450.00	47.60	54.00	-6.40	42.72	4.88	Average	110	14
8	5450.00	60.27	74.00	-13.73	55.39	4.88	Peak	110	14
9	10580.00	54.40	68.20	-13.80	40.30	14.10	Peak	139	311
10	15870.00	42.29	54.00	-11.71	28.42	13.87	Average	143	294
11	15870.00	54.43	74.00	-19.57	40.56	13.87	Peak	143	294

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

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	VHT80	Test Freq. (MHz)	5530
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	5370.00	47.42	54.00	-6.58	42.65	4.77	Average	140	15
2	5370.00	63.31	74.00	-10.69	58.54	4.77	Peak	140	15
3	5460.00	47.49	54.00	-6.51	42.60	4.89	Average	140	15
4	5460.00	62.18	74.00	-11.82	57.29	4.89	Peak	140	15
5	5470.00	49.02	54.00	-4.98	44.11	4.91	Average	140	15
6	5470.00	72.53	74.00	-1.47	67.62	4.91	Peak	140	15
7	11060.00	44.80	54.00	-9.20	30.10	14.70	Average	136	296
8	11060.00	54.32	74.00	-19.68	39.62	14.70	Peak	136	296
9	16590.00	45.50	54.00	-8.50	29.41	16.09	Average	108	185
10	16590.00	56.89	74.00	-17.11	40.80	16.09	Peak	108	185

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

Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		
Level (dBuV/m) </			

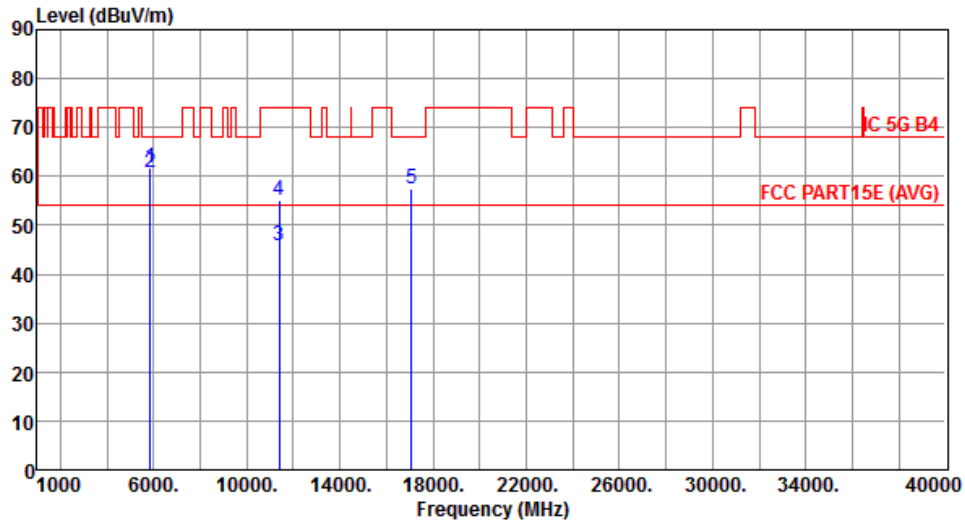
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical		
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5690
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	5850.00	60.97	78.20	-17.23	55.45	5.52	Peak	133	304
2	5860.00	61.09	68.20	-7.11	55.55	5.54	Peak	133	304
3	11380.00	46.16	54.00	-7.84	31.37	14.79	Average	112	242
4	11380.00	55.46	74.00	-18.54	40.67	14.79	Peak	112	242
5	17070.00	58.47	68.20	-9.73	41.16	17.31	Peak	100	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).

Modulation	VHT80	Test Freq. (MHz)	5690
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	5850.00	61.71	78.20	-16.49	56.19	5.52	Peak	128	12
2	5860.00	60.90	68.20	-7.30	55.36	5.54	Peak	128	12
3	11380.00	45.85	54.00	-8.15	31.06	14.79	Average	154	296
4	11380.00	55.16	74.00	-18.84	40.37	14.79	Peak	154	296
5	17070.00	57.43	68.20	-10.77	40.12	17.31	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).

3.6 Frequency Stability

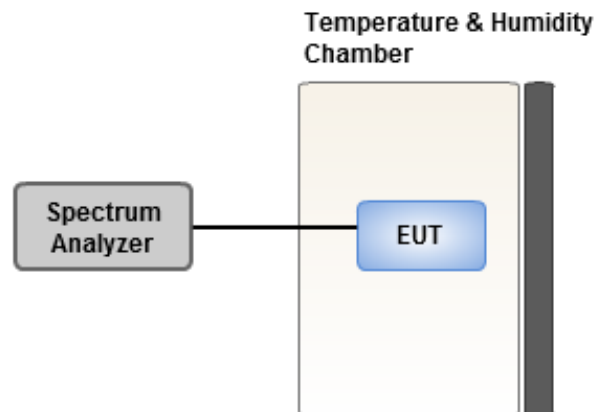
3.6.1 Limit of Frequency Stability

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: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	0.20	0.88	0.00	0.54
T20°C Vmin	0.21	0.73	0.25	0.24
T50°C Vnom	-0.20	0.37	0.29	0.57
T40°C Vnom	-0.24	0.35	-0.30	-0.05
T30°C Vnom	0.62	1.04	0.54	0.65
T20°C Vnom	0.26	-0.20	0.70	0.32
T10°C Vnom	0.55	0.54	0.65	1.05
T0°C Vnom	0.38	0.34	1.14	0.44
T-10°C Vnom	0.31	0.16	0.21	0.67
T-20°C Vnom	-0.49	0.01	-0.17	-0.51
T-30°C Vnom	-0.39	-0.30	-0.40	-0.44
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>.

Linkou

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

Kwei Shan

Tel: 886-3-271-8666

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

Kwei Shan Site II

Tel: 886-3-271-8640

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.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

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