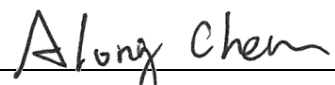


FCC Test Report

FCC ID : ACQ-IP815W
Equipment : Set top box
Model No. : IP815W
Brand Name : ARRIS
Applicant : ARRIS Group, Inc.
Address : 101 Tournament Drive, Horsham,
Pennsylvania, United States, 19044
Standard : 47 CFR FCC Part 15.407
Received Date : Aug. 14, 2017
Tested Date : Aug. 14 ~ Sep. 22, 2017
Mar. 28 ~ Apr. 03, 2018

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:

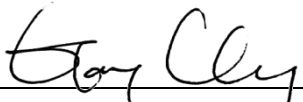

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR813103-01AN	Rev. 01	Initial issue	Apr. 19, 2018

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.150MHz 47.17 (Margin -18.83dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5400.00MHz 53.83 (Margin -0.17dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: <i>Non-beamforming mode</i> 5250~5350MHz: 23.45 5470~5725MHz: 23.76 <i>Beamforming mode</i> 5250~5350MHz: 19.87 5470~5725MHz: 19.75	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 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 [9]	3	6-54 Mbps
5250-5350 5470-5725	n (HT20)	5260-5320 5500-5720	52-64 [4] 100-144 [9]	3	MCS 0-23
5250-5350 5470-5725	n (HT40)	5270-5310 5510-5710	54-62 [2] 102-142 [4]	3	MCS 0-23
5250-5350 5470-5725	ac (VHT20)	5260-5320 5500-5720	52-64 [4] 100-144 [9]	3	MCS 0-9
5250-5350 5470-5725	ac (VHT40)	5270-5310 5510-5710	54-62 [2] 102-142 [4]	3	MCS 0-9
5250-5350 5470-5725	ac (VHT80)	5290 5530-5690	58 [1] 106-138 [2]	3	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: The device has disabled the 5600-5650MHz band by S/W setting.					

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)	
				5250~5350	5470~5725
1	Airgain	Dipole	UFL	2.3	2.3

1.1.3 Power Supply Type of Equipment under Test (EUT)

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

1.1.4 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	110	5550
100	5500	134	5670
104	5520	142	5710
108	5540	VHT80	
112	5560	58	5290
116	5580	106	5530
132	5660	138	5690
136	5680	--	--
140	5700	--	--
144	5720	--	--

1.1.5 Test Tool and Duty Cycle

Test Tool	Non-Beamforming: MTOOL, Version: 2.0.0.9 Beamforming: iperf, Version: 2.1				
Duty Cycle and Duty Factor	Mode	Non-beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11a	99.31%	0.03	---	---
	VHT20	99.26%	0.03	98.33%	0.07
	VHT40	98.23%	0.08	98.94%	0.05
	VHT80	95.55%	0.20	98.09%	0.08

1.1.6 Power Setting

For Frequency band 5250~5350 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5260	68	---
11a	5300	66	---
11a	5320	64	---
HT20	5260	70	58
HT20	5300	66	58
HT20	5320	64	58
HT40	5270	70	56
HT40	5310	58	54
VHT20	5260	70	58
VHT20	5300	66	58
VHT20	5320	64	58
VHT40	5270	70	56
VHT40	5310	58	54
VHT80	5290	52	52

For Frequency band 5470~5725 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5500	66	---
11a	5580	70	---
11a	5700	68	---
11a	5720	68	---
HT20	5500	66	58
HT20	5580	72	60
HT20	5700	68	58
HT20	5720	70	58
HT40	5510	60	56
HT40	5550	72	58
HT40	5670	72	56
HT40	5710	72	56
VHT20	5500	66	58
VHT20	5580	72	60
VHT20	5700	68	58
VHT20	5720	70	58
VHT40	5510	60	56
VHT40	5550	72	58
VHT40	5670	72	56
VHT40	5710	72	56
VHT80	5530	49	48
VHT80	5690	72	58

1.2 Local Support Equipment List

Non-beamforming mode

Support Equipment List (for frequency above 1GHz test)					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6430	DoC	RJ45, 1.5m non-shielded.

Support Equipment List (for frequency below 1GHz test)					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6430	DoC	RJ45, 10m non-shielded.
2	TV	CHIMEI	TL-24LF500D	---	HDMI, 1.8m shielded. AV, 1.5m non-shielded.
3	USB Flash	Kingston	DTSE9	---	---

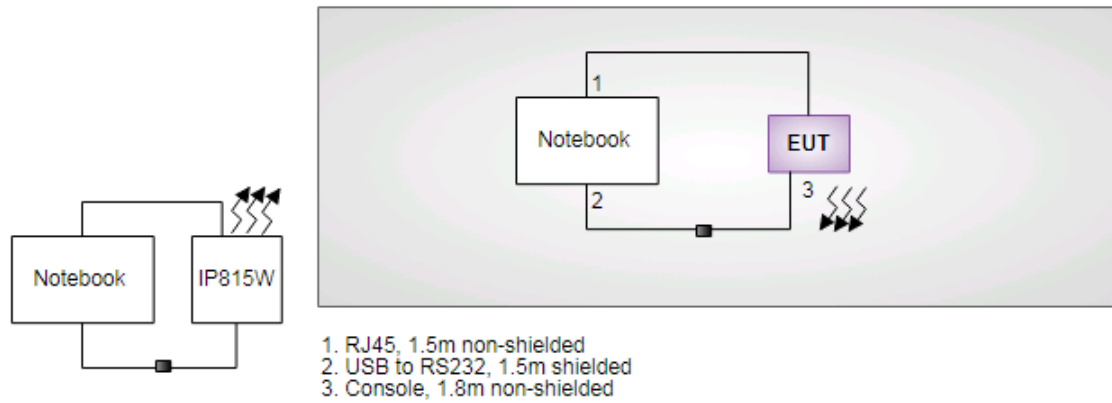
Beamforming mode

Support Equipment List (for frequency above 1GHz test)					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6430	DoC	RJ45, 1.5m non-shielded.
2	Notebook	DELL	Latitude E6430	DoC	RJ45, 1.5m non-shielded.
3	Set top box	ARRIS	IP815W	---	Console, 1.8m non-shielded.

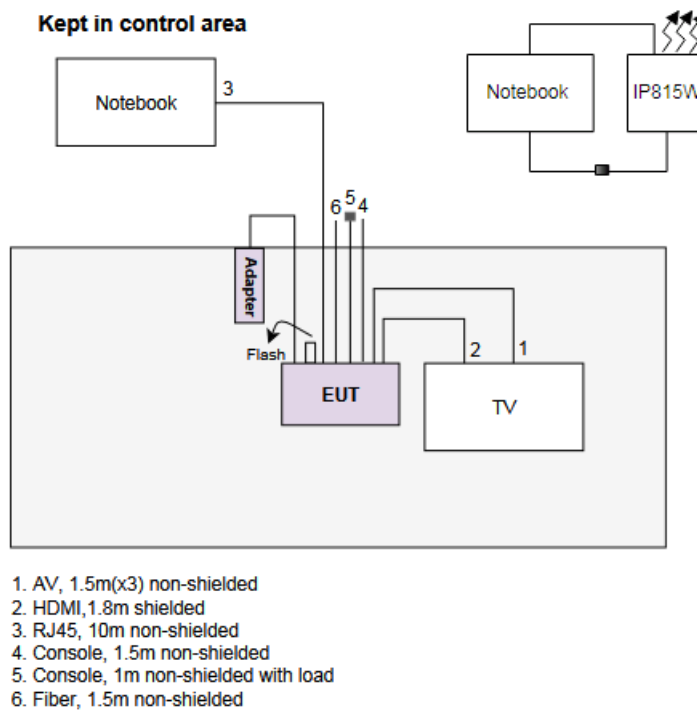
Support Equipment List (for frequency below 1GHz test)					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6430	DoC	RJ45, 10m non-shielded.
2	Notebook	DELL	Latitude E6430	DoC	RJ45, 1.5m non-shielded.
3	TV	CHIMEI	TL-24LF500D	---	HDMI, 1.8m shielded. AV, 1.5m non-shielded.
4	USB Flash	Kingston	DTSE9	---	---
5	Set top box	ARRIS	IP815W	---	Console, 1.8m non-shielded.

Beamforming mode

Test Setup Diagram (for frequency above 1GHz test)



Test Setup Diagram (for frequency below 1GHz test)



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 30, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Jan. 05, 2018	Jan. 04, 2019
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 13, 2017	Nov. 12, 2018
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	50821	Dec. 18, 2017	Dec. 17, 2018
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz test				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Aug. 14 ~ Sep. 22, 2017				
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
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
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2016	Oct. 05, 2017
Preamplifier	MITEQ	JS44-18004000-33-8P	1840917	Feb.02 , 2017	Feb.01 , 2018
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
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission below 1GHz test				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Mar. 28, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2017	Dec. 03, 2018
Receiver	R&S	ESR3	101658	Nov. 20, 2017	Nov. 19, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 25, 2017	Jul. 24, 2018
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2017	Nov. 12, 2018
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 07, 2017	Dec. 06, 2018
Preamplifier	EMC	EMC02325	980225	Jul. 28, 2017	Jul. 27, 2018
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 07, 2017	Dec. 06, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 07, 2017	Dec. 06, 2018
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 07, 2017	Dec. 06, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

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

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Apr. 02 ~ Apr. 03, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 03, 2018	Jan. 02, 2019
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 27, 2017	Nov. 26, 2018
Power Meter	Anritsu	ML2495A	1241002	Oct. 16, 2017	Oct. 15, 2018
Power Sensor	Anritsu	MA2411B	1207366	Oct. 16, 2017	Oct. 15, 2018
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 01, 2017	Nov. 30, 2018
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

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

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Measurement Uncertainty

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

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

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	21°C / 58%	Alex Tsai
Radiated Emissions	03CH01-WS	24-25°C / 60-61%	Vincent Yeh Aska Huang
RF Conducted	TH01-WS	22-24°C / 62-64%	Vincent Yeh Brad Wu

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-2

2.2 The Worst Test Modes and Channel Details

Non-beamforming mode

Frequency band 5250~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	VHT40	5670	MCS 0	---
Radiated Emissions ≤1GHz	VHT40	5670	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 / 5550 / 5670 / 5710	MCS 0	
	VHT20	5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 / 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Radiated Emissions >1GHz	11a	5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	VHT20	5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 / 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Emission Bandwidth Peak Power Spectral Density	11a	5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	VHT20	5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 / 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Frequency Stability	Un-modulation	5320	---	---

Beamforming mode

Frequency band 5250~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	VHT20	5320	MCS 0	---
Radiated Emissions ≤1GHz	VHT20	5320	MCS 0	---
RF Output Power	HT20	5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	HT40	5270 / 5310 / 5510 / 5550 / 5670 / 5710	MCS 0	---
	VHT20	5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	VHT40	5270 / 5310 / 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Radiated Emissions >1GHz	VHT20	5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	VHT40	5270 / 5310 / 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Emission Bandwidth Peak Power Spectral Density	VHT20	5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	VHT40	5270 / 5310 / 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

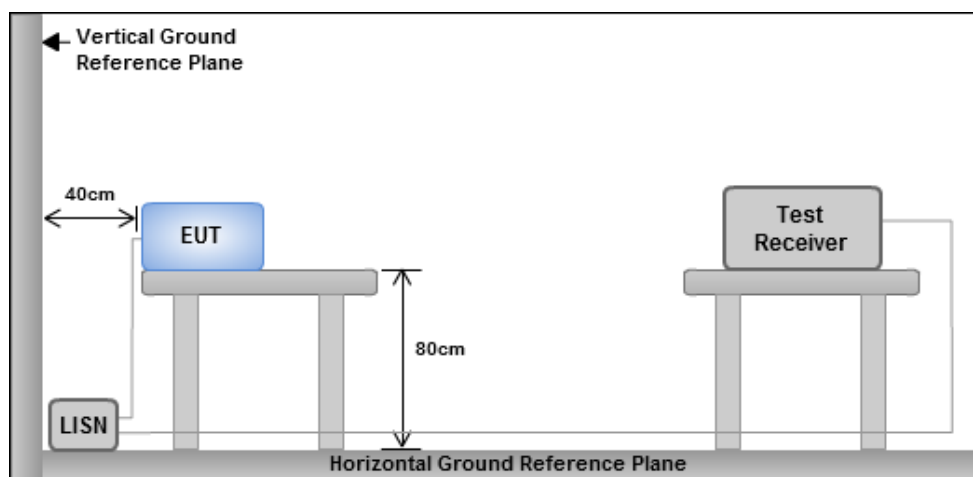
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

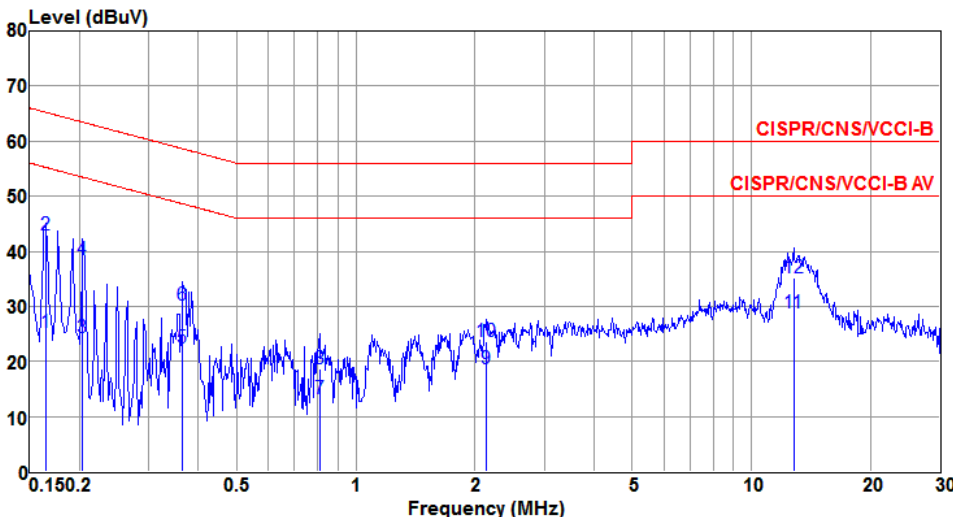


- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

Non-beamforming mode

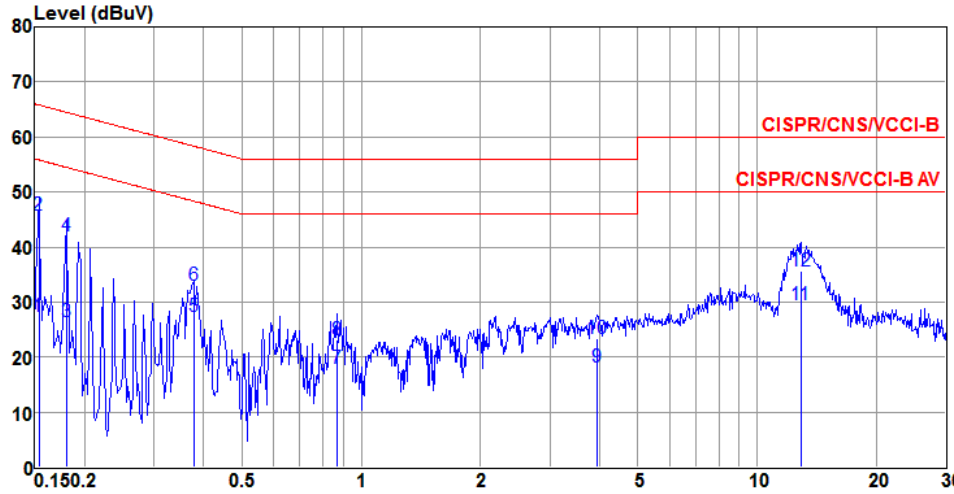
3.1.4 Test Result of Conducted Emissions

Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Line		

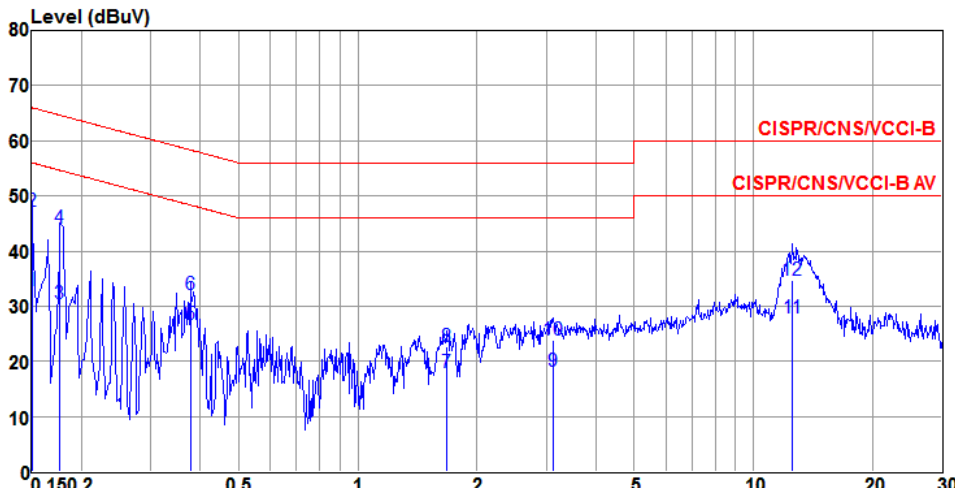


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.165	25.21	55.21	-30.00	24.91	0.28	0.02	Average
2	0.165	42.90	65.21	-22.31	42.60	0.28	0.02	QP
3	0.204	24.31	53.45	-29.14	23.99	0.29	0.03	Average
4	0.204	38.46	63.45	-24.99	38.14	0.29	0.03	QP
5	0.365	22.46	48.61	-26.15	22.11	0.33	0.02	Average
6	0.365	30.14	58.61	-28.47	29.79	0.33	0.02	QP
7	0.809	13.24	46.00	-32.76	12.83	0.38	0.03	Average
8	0.809	18.54	56.00	-37.46	18.13	0.38	0.03	QP
9	2.144	18.55	46.00	-27.45	18.01	0.43	0.11	Average
10	2.144	23.69	56.00	-32.31	23.15	0.43	0.11	QP
11@	12.784	28.72	50.00	-21.28	27.76	0.64	0.32	Average
12	12.784	35.10	60.00	-24.90	34.14	0.64	0.32	QP

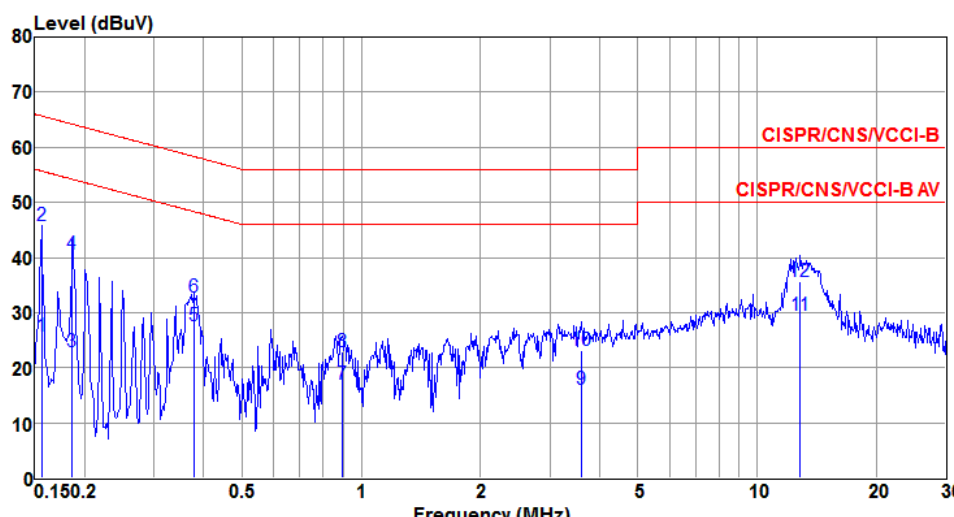
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 Note 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	VHT40	Test Freq. (MHz)	5670																																																																																																																																							
Power Phase	Neutral																																																																																																																																									
Level (dBuV)  <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>LISN</th><th>cable</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>factor</th><th>loss</th><th>Remark</th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>0.153</td><td>27.45</td><td>55.82</td><td>-28.37</td><td>27.30</td><td>0.14</td><td>0.01</td><td>Average</td></tr><tr><td>2@</td><td>0.153</td><td>45.79</td><td>65.82</td><td>-20.03</td><td>45.64</td><td>0.14</td><td>0.01</td><td>QP</td></tr><tr><td>3</td><td>0.180</td><td>26.41</td><td>54.50</td><td>-28.09</td><td>26.24</td><td>0.15</td><td>0.02</td><td>Average</td></tr><tr><td>4</td><td>0.180</td><td>42.11</td><td>64.50</td><td>-22.39</td><td>41.94</td><td>0.15</td><td>0.02</td><td>QP</td></tr><tr><td>5</td><td>0.377</td><td>27.50</td><td>48.34</td><td>-20.84</td><td>27.29</td><td>0.19</td><td>0.02</td><td>Average</td></tr><tr><td>6</td><td>0.377</td><td>32.94</td><td>58.34</td><td>-25.40</td><td>32.73</td><td>0.19</td><td>0.02</td><td>QP</td></tr><tr><td>7</td><td>0.866</td><td>18.03</td><td>46.00</td><td>-27.97</td><td>17.75</td><td>0.25</td><td>0.03</td><td>Average</td></tr><tr><td>8</td><td>0.866</td><td>23.11</td><td>56.00</td><td>-32.89</td><td>22.83</td><td>0.25</td><td>0.03</td><td>QP</td></tr><tr><td>9</td><td>3.943</td><td>18.17</td><td>46.00</td><td>-27.83</td><td>17.60</td><td>0.35</td><td>0.22</td><td>Average</td></tr><tr><td>10</td><td>3.943</td><td>23.41</td><td>56.00</td><td>-32.59</td><td>22.84</td><td>0.35</td><td>0.22</td><td>QP</td></tr><tr><td>11</td><td>12.920</td><td>29.48</td><td>50.00</td><td>-20.52</td><td>28.64</td><td>0.52</td><td>0.32</td><td>Average</td></tr><tr><td>12</td><td>12.920</td><td>35.73</td><td>60.00</td><td>-24.27</td><td>34.89</td><td>0.52</td><td>0.32</td><td>QP</td></tr></table> Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).					Freq	Level	Limit	Over	Read	LISN	cable			MHz	dBuV	Line	Limit	Level	factor	loss	Remark				dBuV	dB	dBuV	dB	dB		1	0.153	27.45	55.82	-28.37	27.30	0.14	0.01	Average	2@	0.153	45.79	65.82	-20.03	45.64	0.14	0.01	QP	3	0.180	26.41	54.50	-28.09	26.24	0.15	0.02	Average	4	0.180	42.11	64.50	-22.39	41.94	0.15	0.02	QP	5	0.377	27.50	48.34	-20.84	27.29	0.19	0.02	Average	6	0.377	32.94	58.34	-25.40	32.73	0.19	0.02	QP	7	0.866	18.03	46.00	-27.97	17.75	0.25	0.03	Average	8	0.866	23.11	56.00	-32.89	22.83	0.25	0.03	QP	9	3.943	18.17	46.00	-27.83	17.60	0.35	0.22	Average	10	3.943	23.41	56.00	-32.59	22.84	0.35	0.22	QP	11	12.920	29.48	50.00	-20.52	28.64	0.52	0.32	Average	12	12.920	35.73	60.00	-24.27	34.89	0.52	0.32	QP
	Freq	Level	Limit	Over	Read	LISN	cable																																																																																																																																			
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark																																																																																																																																		
			dBuV	dB	dBuV	dB	dB																																																																																																																																			
1	0.153	27.45	55.82	-28.37	27.30	0.14	0.01	Average																																																																																																																																		
2@	0.153	45.79	65.82	-20.03	45.64	0.14	0.01	QP																																																																																																																																		
3	0.180	26.41	54.50	-28.09	26.24	0.15	0.02	Average																																																																																																																																		
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12	12.920	35.73	60.00	-24.27	34.89	0.52	0.32	QP																																																																																																																																		

Beamforming mode

Modulation	VHT20	Test Freq. (MHz)	5320																																																																																																																					
Power Phase	Line																																																																																																																							
Level (dBuV)  Frequency (MHz) <table><thead><tr><th></th><th>Freq MHz</th><th>Level dBuV</th><th>Limit Line dBuV</th><th>Over Limit dB</th><th>Read Level dBuV</th><th>LISN factor dB</th><th>cable loss dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.150</td><td>32.71</td><td>56.00</td><td>-23.29</td><td>32.43</td><td>0.27</td><td>0.01</td><td>Average</td></tr><tr><td>2</td><td>0.150</td><td>47.17</td><td>66.00</td><td>-18.83</td><td>46.89</td><td>0.27</td><td>0.01</td><td>QP</td></tr><tr><td>3</td><td>0.177</td><td>30.42</td><td>54.64</td><td>-24.22</td><td>30.12</td><td>0.28</td><td>0.02</td><td>Average</td></tr><tr><td>4</td><td>0.177</td><td>44.09</td><td>64.64</td><td>-20.55</td><td>43.79</td><td>0.28</td><td>0.02</td><td>QP</td></tr><tr><td>5</td><td>0.377</td><td>26.71</td><td>48.34</td><td>-21.63</td><td>26.35</td><td>0.34</td><td>0.02</td><td>Average</td></tr><tr><td>6</td><td>0.377</td><td>32.16</td><td>58.34</td><td>-26.18</td><td>31.80</td><td>0.34</td><td>0.02</td><td>QP</td></tr><tr><td>7</td><td>1.680</td><td>17.95</td><td>46.00</td><td>-28.05</td><td>17.45</td><td>0.42</td><td>0.08</td><td>Average</td></tr><tr><td>8</td><td>1.680</td><td>22.63</td><td>56.00</td><td>-33.37</td><td>22.13</td><td>0.42</td><td>0.08</td><td>QP</td></tr><tr><td>9</td><td>3.123</td><td>18.28</td><td>46.00</td><td>-27.72</td><td>17.64</td><td>0.46</td><td>0.18</td><td>Average</td></tr><tr><td>10</td><td>3.123</td><td>23.73</td><td>56.00</td><td>-32.27</td><td>23.09</td><td>0.46</td><td>0.18</td><td>QP</td></tr><tr><td>11</td><td>12.582</td><td>27.91</td><td>50.00</td><td>-22.09</td><td>26.95</td><td>0.64</td><td>0.32</td><td>Average</td></tr><tr><td>12</td><td>12.582</td><td>34.78</td><td>60.00</td><td>-25.22</td><td>33.82</td><td>0.64</td><td>0.32</td><td>QP</td></tr></tbody></table> Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark	1	0.150	32.71	56.00	-23.29	32.43	0.27	0.01	Average	2	0.150	47.17	66.00	-18.83	46.89	0.27	0.01	QP	3	0.177	30.42	54.64	-24.22	30.12	0.28	0.02	Average	4	0.177	44.09	64.64	-20.55	43.79	0.28	0.02	QP	5	0.377	26.71	48.34	-21.63	26.35	0.34	0.02	Average	6	0.377	32.16	58.34	-26.18	31.80	0.34	0.02	QP	7	1.680	17.95	46.00	-28.05	17.45	0.42	0.08	Average	8	1.680	22.63	56.00	-33.37	22.13	0.42	0.08	QP	9	3.123	18.28	46.00	-27.72	17.64	0.46	0.18	Average	10	3.123	23.73	56.00	-32.27	23.09	0.46	0.18	QP	11	12.582	27.91	50.00	-22.09	26.95	0.64	0.32	Average	12	12.582	34.78	60.00	-25.22	33.82	0.64	0.32	QP
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark																																																																																																																
1	0.150	32.71	56.00	-23.29	32.43	0.27	0.01	Average																																																																																																																
2	0.150	47.17	66.00	-18.83	46.89	0.27	0.01	QP																																																																																																																
3	0.177	30.42	54.64	-24.22	30.12	0.28	0.02	Average																																																																																																																
4	0.177	44.09	64.64	-20.55	43.79	0.28	0.02	QP																																																																																																																
5	0.377	26.71	48.34	-21.63	26.35	0.34	0.02	Average																																																																																																																
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7	1.680	17.95	46.00	-28.05	17.45	0.42	0.08	Average																																																																																																																
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11	12.582	27.91	50.00	-22.09	26.95	0.64	0.32	Average																																																																																																																
12	12.582	34.78	60.00	-25.22	33.82	0.64	0.32	QP																																																																																																																

Modulation	VHT20	Test Freq. (MHz)	5320
Power Phase	Neutral		



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	LISN factor dB	cable loss dB	Remark
1	0.156	25.84	55.69	-29.85	25.69	0.14	0.01	Average
2@	0.156	45.73	65.69	-19.96	45.58	0.14	0.01	QP
3	0.186	22.89	54.20	-31.31	22.71	0.15	0.03	Average
4	0.186	40.69	64.20	-23.51	40.51	0.15	0.03	QP
5	0.377	27.68	48.34	-20.66	27.47	0.19	0.02	Average
6	0.377	32.87	58.34	-25.47	32.66	0.19	0.02	QP
7	0.894	17.02	46.00	-28.98	16.74	0.25	0.03	Average
8	0.894	22.92	56.00	-33.08	22.64	0.25	0.03	QP
9	3.603	16.17	46.00	-29.83	15.63	0.34	0.20	Average
10	3.603	23.03	56.00	-32.97	22.49	0.34	0.20	QP
11	12.852	29.45	50.00	-20.55	28.61	0.52	0.32	Average
12	12.852	35.54	60.00	-24.46	34.70	0.52	0.32	QP

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

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

3.2 Emission Bandwidth

3.2.1 Test Procedures

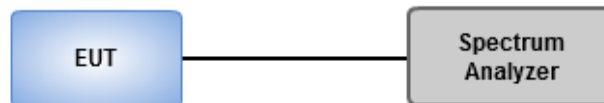
26dB Bandwidth

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

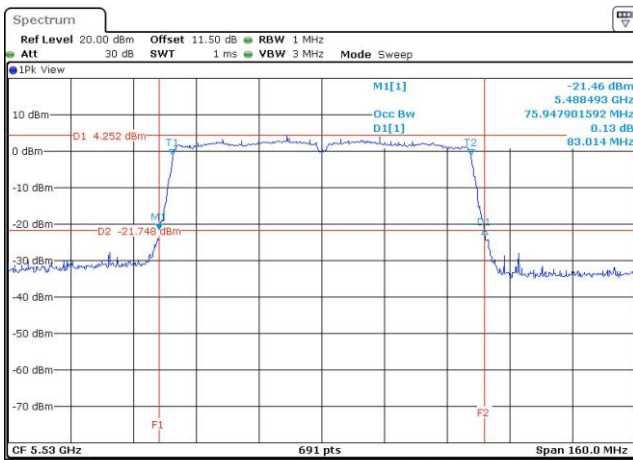


3.2.3 Test Result of Emission Bandwidth

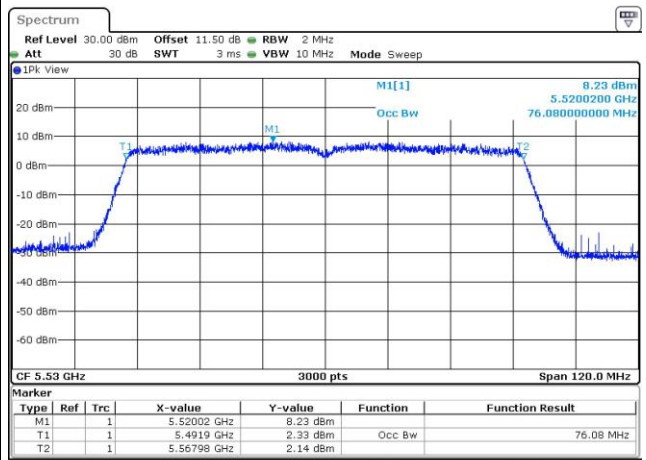
Non-beamforming mode

For Frequency band 5250~5350 MHz / 5470~5725 MHz											
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	3	5260	20.41	20.29	20.41	---	16.90	16.80	16.79	---	24.00
11a	3	5300	20.35	20.23	20.41	---	16.89	16.78	16.80	---	24.00
11a	3	5320	20.23	20.17	20.46	---	16.88	16.79	16.78	---	24.00
VHT20	3	5260	20.87	20.64	21.10	---	17.92	17.76	17.82	---	24.00
VHT20	3	5300	20.70	20.58	20.70	---	17.92	17.77	17.81	---	24.00
VHT20	3	5320	21.04	20.41	20.75	---	17.89	17.77	17.81	---	24.00
VHT40	3	5270	53.80	51.13	46.73	---	36.78	36.72	36.66	---	24.00
VHT40	3	5310	41.16	40.70	40.35	---	36.64	36.58	36.58	---	24.00
VHT80	3	5290	82.78	82.09	82.09	---	76.04	75.96	76.08	---	24.00
11a	3	5500	20.29	20.29	20.41	---	16.90	16.80	16.81	---	24.00
11a	3	5580	20.87	20.29	20.41	---	16.90	16.82	16.79	---	24.00
11a	3	5700	20.70	20.29	20.41	---	16.91	16.81	16.81	---	24.00
VHT20	3	5500	20.75	20.46	21.22	---	17.92	17.76	17.80	---	24.00
VHT20	3	5580	24.29	20.87	20.99	---	17.92	17.79	17.82	---	24.00
VHT20	3	5700	21.97	20.41	20.93	---	17.93	17.77	17.83	---	24.00
VHT40	3	5510	41.16	40.58	40.46	---	36.64	36.56	36.58	---	24.00
VHT40	3	5550	56.58	46.26	50.55	---	36.84	36.66	36.72	---	24.00
VHT40	3	5670	59.71	54.38	51.01	---	36.84	36.72	36.80	---	24.00
VHT80	3	5530	83.01	82.55	82.78	---	76.08	75.96	76.04	---	24.00

Worst Plot of 26dB Bandwidth



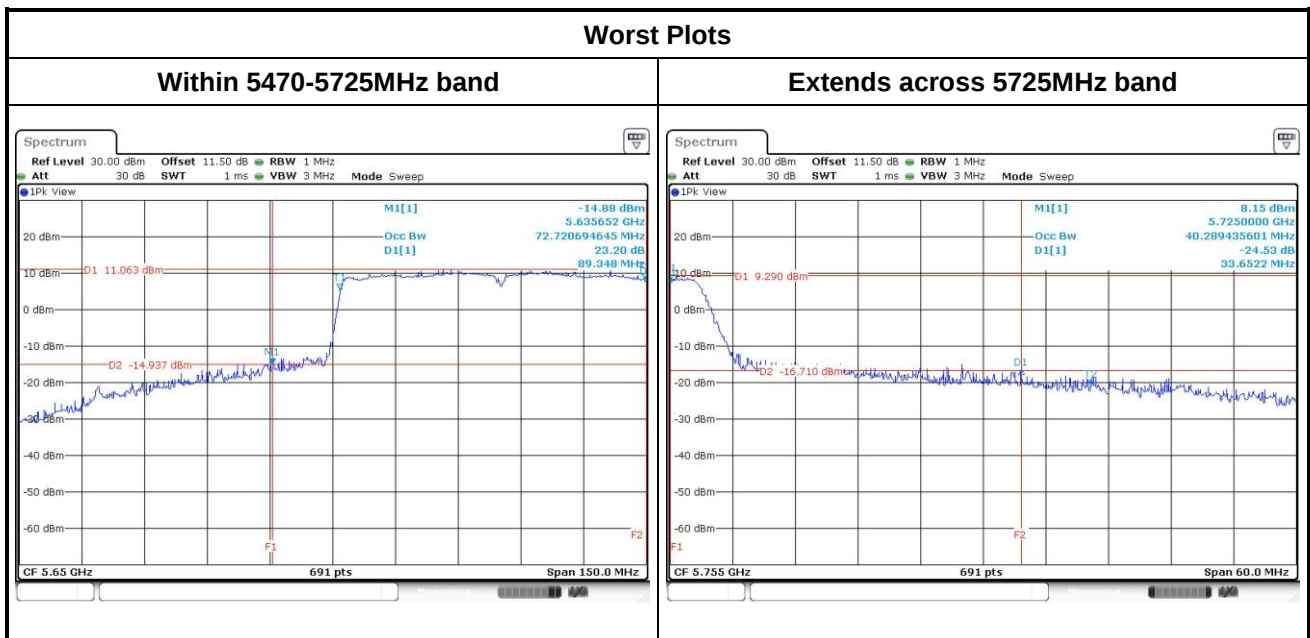
Worst Plot of 99% Bandwidth



Channel that extends across the 5.725 GHz boundary

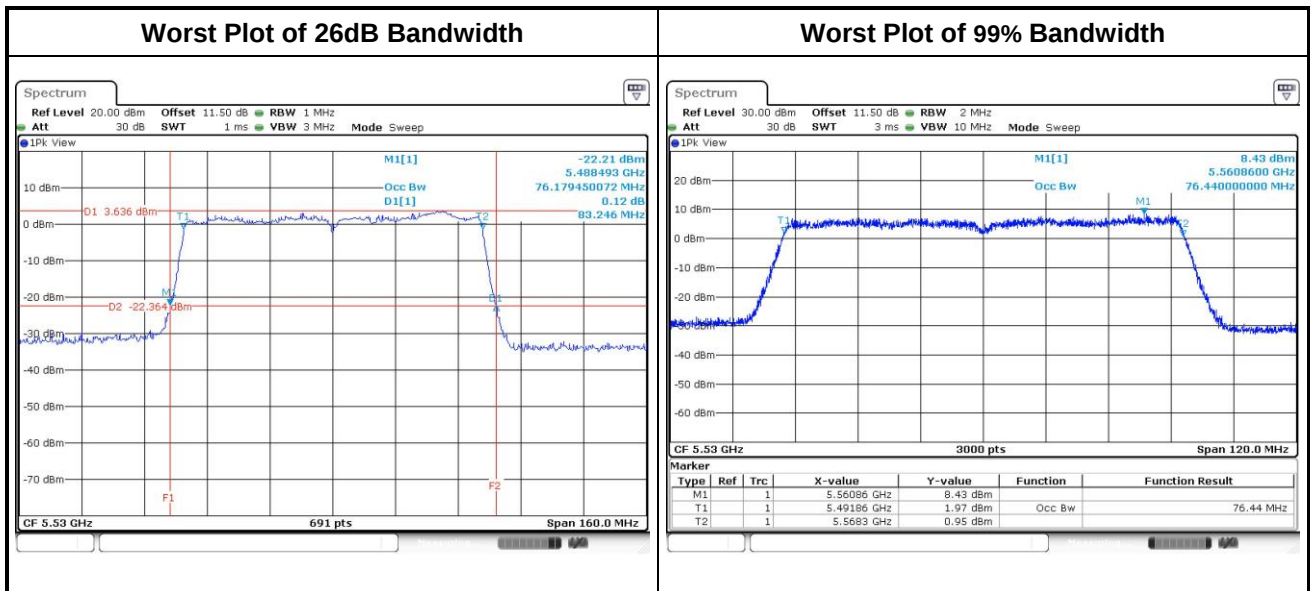
Frequency band			UNII Emission Bandwidth Result (Within 5470-5725MHz band)								
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	3	5720	15.34	15.21	15.15	---	13.53	13.44	13.42	---	22.80
VHT20	3	5720	16.57	15.77	17.37	---	14.03	13.96	13.99	---	22.98
VHT40	3	5710	45.55	43.12	42.41	---	33.51	33.41	33.41	---	24.00
VHT80	3	5690	89.35	86.09	76.09	---	73.22	73.18	73.10	---	24.00

Frequency band			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	3	5720	5.83	5.28	5.22	---	3.42	3.38	3.39	---	---
VHT20	3	5720	9.11	6.22	6.80	---	3.94	3.85	3.89	---	---
VHT40	3	5710	26.20	16.64	18.90	---	3.43	3.33	3.33	---	---
VHT80	3	5690	33.65	20.26	27.22	---	3.14	2.98	3.06	---	---



Beamforming mode

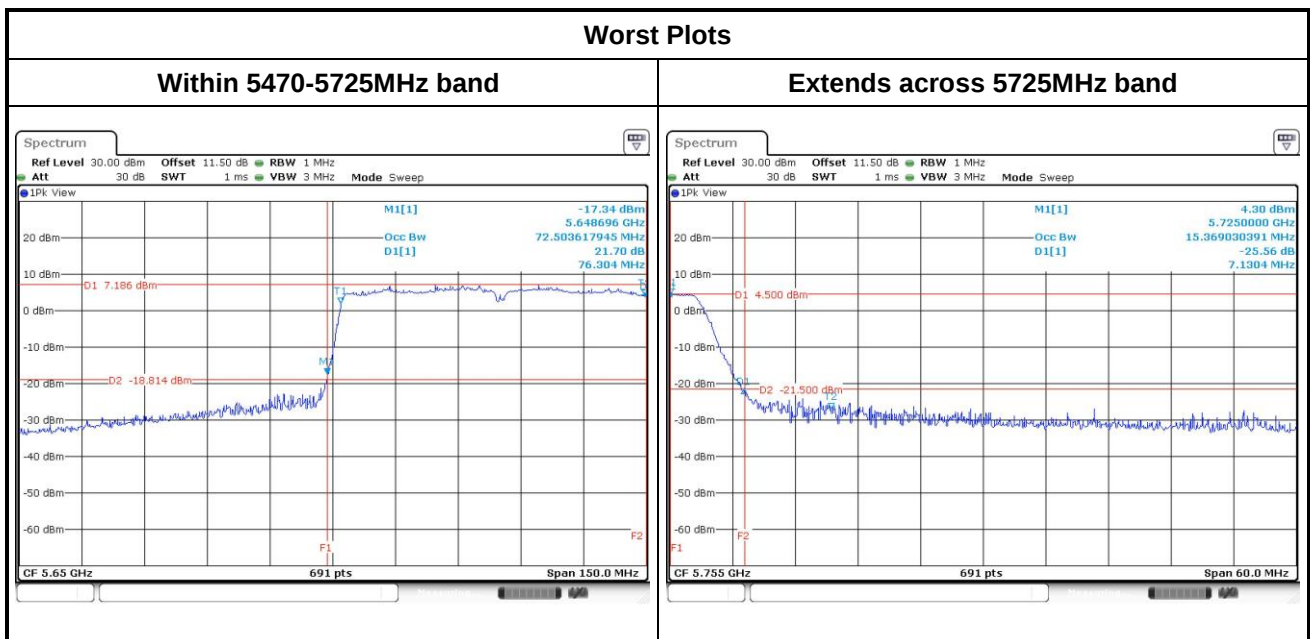
For Frequency band 5250~5350 MHz / 5470~5725 MHz											
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
VHT20	3	5260	20.46	20.58	20.41	---	17.88	17.80	17.90	---	24.00
VHT20	3	5300	20.58	20.46	20.41	---	17.88	17.92	17.98	---	24.00
VHT20	3	5320	20.52	20.64	20.52	---	17.80	17.74	17.93	---	24.00
VHT40	3	5270	41.97	40.93	40.70	---	36.56	36.56	36.48	---	24.00
VHT40	3	5310	40.81	40.58	40.81	---	36.52	36.58	36.58	---	24.00
VHT80	3	5290	82.78	82.78	82.55	---	76.16	76.08	76.24	---	24.00
VHT20	3	5500	20.52	20.64	20.58	---	17.82	17.90	17.92	---	24.00
VHT20	3	5580	20.75	20.52	20.64	---	17.79	17.81	17.92	---	24.00
VHT20	3	5700	20.81	20.64	20.75	---	17.85	17.88	17.94	---	24.00
VHT40	3	5510	40.81	40.70	40.93	---	36.56	36.64	36.52	---	24.00
VHT40	3	5550	41.04	40.70	40.35	---	36.62	36.60	36.56	---	24.00
VHT40	3	5670	45.80	40.93	40.58	---	36.64	36.60	36.56	---	24.00
VHT80	3	5530	83.01	83.25	82.09	---	76.44	76.16	76.40	---	24.00



Channel that extends across the 5.725 GHz boundary

Frequency band			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	3	5720	15.34	15.34	15.34	---	14.00	13.94	13.96	---	22.86
VHT40	3	5710	35.41	35.30	35.20	---	33.31	33.39	33.35	---	24.00
VHT80	3	5690	76.30	76.09	76.09	---	73.06	73.26	73.10	---	24.00

Frequency band			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	3	5720	5.30	5.24	5.28	---	3.92	3.83	3.87	---	---
VHT40	3	5710	5.80	5.45	5.28	---	3.29	3.25	3.25	---	---
VHT80	3	5690	7.13	6.61	6.35	---	3.06	3.02	3.02	---	---



3.3 RF Output Power

3.3.1 Limit of RF Output Power

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

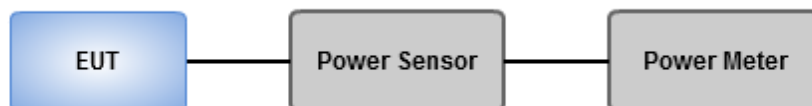
Frequency Band (MHz)		Limit
☒	5250 ~ 5350	250mW or 11dBm+10 log B
☒	5470 ~ 5725	250mW or 11dBm+10 log B
☒	5725 ~ 5850	1 W

Note: "B" is the 26dB emission bandwidth in MHz.

3.3.2 Test Procedures

- ☒ Power meter
 - ☒ Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Non-beamforming mode

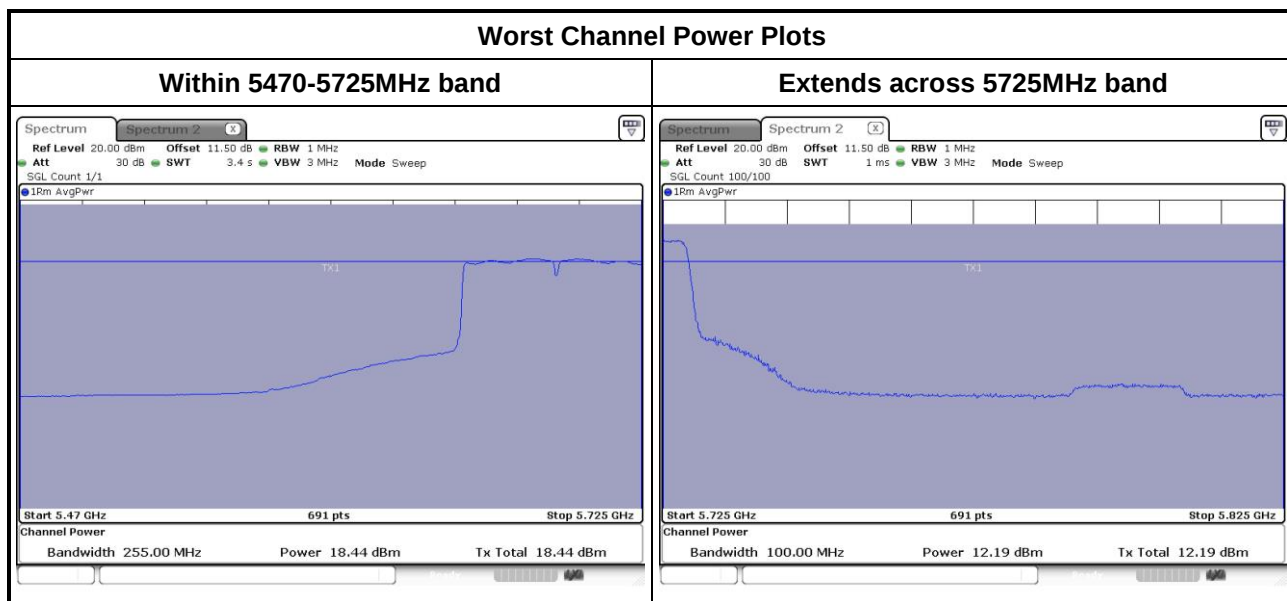
For Frequency band 5250~5350 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	3	5260	18.16	17.54	17.62	---	180.028	22.55	24.00
11a	3	5300	17.69	17.42	16.84	---	162.263	22.10	24.00
11a	3	5320	17.16	16.77	16.75	---	146.848	21.67	24.00
HT20	3	5260	18.21	18.02	17.84	---	190.422	22.80	24.00
HT20	3	5300	17.41	17.22	17.06	---	158.620	22.00	24.00
HT20	3	5320	17.01	16.65	16.44	---	140.528	21.48	24.00
HT40	3	5270	18.43	18.52	18.71	---	215.086	23.33	24.00
HT40	3	5310	15.81	15.65	15.36	---	109.191	20.38	24.00
VHT20	3	5260	18.35	18.11	17.99	---	196.056	22.92	24.00
VHT20	3	5300	17.58	17.36	17.15	---	163.610	22.14	24.00
VHT20	3	5320	17.15	16.81	16.54	---	144.935	21.61	24.00
VHT40	3	5270	18.54	18.65	18.83	---	221.116	23.45	24.00
VHT40	3	5310	15.92	15.79	15.49	---	112.415	20.51	24.00
VHT80	3	5290	14.21	13.89	13.43	---	72.883	18.63	24.00

For Frequency band 5470~5725 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	3	5500	17.11	16.55	16.35	---	139.742	21.45	24.00
11a	3	5580	18.26	17.89	17.89	---	190.024	22.79	24.00
11a	3	5700	18.21	17.55	17.52	---	179.601	22.54	24.00
HT20	3	5500	16.75	16.21	15.88	---	127.824	21.07	21.21
HT20	3	5580	18.62	18.03	18.06	---	200.285	23.02	23.12
HT20	3	5700	18.05	17.29	17.41	---	172.487	22.37	22.50
HT40	3	5510	15.22	15.14	14.81	---	96.194	19.83	19.93
HT40	3	5550	18.65	18.08	18.22	---	203.926	23.09	23.34
HT40	3	5670	19.12	18.54	18.72	---	227.581	23.57	23.76
VHT20	3	5500	16.89	16.33	16.06	---	132.183	21.21	24.00
VHT20	3	5580	18.71	18.12	18.18	---	204.931	23.12	24.00
VHT20	3	5700	18.17	17.46	17.53	---	177.957	22.50	24.00
VHT40	3	5510	15.32	15.21	14.93	---	98.347	19.93	24.00
VHT40	3	5550	18.86	18.24	18.31	---	211.358	23.25	24.00
VHT40	3	5670	19.39	18.66	18.88	---	237.615	23.76	24.00
VHT80	3	5530	12.22	11.88	11.46	---	46.085	16.64	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	3	5720	17.61	16.94	16.94	---	21.95	0.00	156.539	21.95	22.80
HT20	3	5720	17.87	17.34	17.22	---	22.26	0.00	168.158	22.26	22.98
HT40	3	5710	18.26	17.75	18.01	---	22.78	0.00	189.796	22.78	24.00
VHT20	3	5720	17.93	17.40	17.28	---	22.32	0.00	170.497	22.32	22.98
VHT40	3	5710	18.34	17.82	18.04	---	22.84	0.00	192.448	22.84	24.00
VHT80	3	5690	18.44	17.96	17.89	---	22.87	0.20	202.994	23.07	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	3	5720	10.98	10.63	10.54	---	15.49	0.00	35.417	15.49	30.00
HT20	3	5720	12.07	11.52	11.44	---	16.46	0.00	44.229	16.46	30.00
HT40	3	5710	8.18	7.76	7.53	---	12.60	0.00	18.209	12.60	30.00
VHT20	3	5720	12.19	11.61	11.47	---	16.54	0.00	45.074	16.54	30.00
VHT40	3	5710	8.23	7.82	7.56	---	12.65	0.00	18.408	12.65	30.00
VHT80	3	5690	4.04	3.47	3.74	---	8.53	0.20	7.460	8.73	30.00



Beamforming mode

For Frequency band 5250~5350 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
HT20	3	5260	15.18	14.72	14.63	---	91.650	19.62	22.93
HT20	3	5300	15.31	14.78	14.72	---	93.672	19.72	22.93
HT20	3	5320	15.45	14.71	14.65	---	93.830	19.72	22.93
HT40	3	5270	15.22	14.74	14.81	---	93.320	19.70	22.93
HT40	3	5310	15.04	14.21	14.42	---	85.948	19.34	22.93
VHT20	3	5260	15.32	14.86	14.76	---	94.583	19.76	22.93
VHT20	3	5300	15.47	14.92	14.85	---	96.832	19.86	22.93
VHT20	3	5320	15.61	14.85	14.78	---	97.001	19.87	22.93
VHT40	3	5270	15.36	14.84	14.92	---	95.880	19.82	22.93
VHT40	3	5310	15.16	14.34	14.54	---	88.419	19.47	22.93
VHT80	3	5290	14.08	13.83	13.56	---	72.439	18.60	22.93

Note: Directional gain = $2.3 + 10 \cdot \log(3/1) = 7.07 \text{ dBi} > 6 \text{ dBi}$
 Limit shall be reduced to $24 \text{ dBm} - (7.07 \text{ dBi} - 6 \text{ dBi}) = 22.93 \text{ dBm}$

For Frequency band 5470–5725 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
HT20	3	5500	15.13	14.78	14.61	---	91.551	19.62	22.93
HT20	3	5580	15.03	14.77	14.81	---	92.103	19.64	22.93
HT20	3	5700	15.11	14.52	14.65	---	89.922	19.54	22.93
HT40	3	5510	14.24	14.12	14.45	---	80.230	19.04	22.93
HT40	3	5550	14.75	14.36	14.28	---	83.935	19.24	22.93
HT40	3	5670	14.54	14.08	14.21	---	80.394	19.05	22.93
VHT20	3	5500	15.26	14.91	14.73	---	94.265	19.74	22.93
VHT20	3	5580	15.12	14.84	14.96	---	94.321	19.75	22.93
VHT20	3	5700	15.26	14.64	14.77	---	92.673	19.67	22.93
VHT40	3	5510	14.38	14.26	14.58	---	82.792	19.18	22.93
VHT40	3	5550	14.82	14.52	14.41	---	86.259	19.36	22.93
VHT40	3	5670	14.67	14.22	14.34	---	82.897	19.19	22.93
VHT80	3	5530	12.29	11.85	11.32	---	45.806	16.61	22.93

Note: Directional gain = $2.3 + 10 \cdot \log(3/1) = 7.07 \text{ dBi} > 6 \text{ dBi}$
 Limit shall be reduced to $24 \text{ dBm} - (7.07 \text{ dBi} - 6 \text{ dBi}) = 22.93 \text{ dBm}$

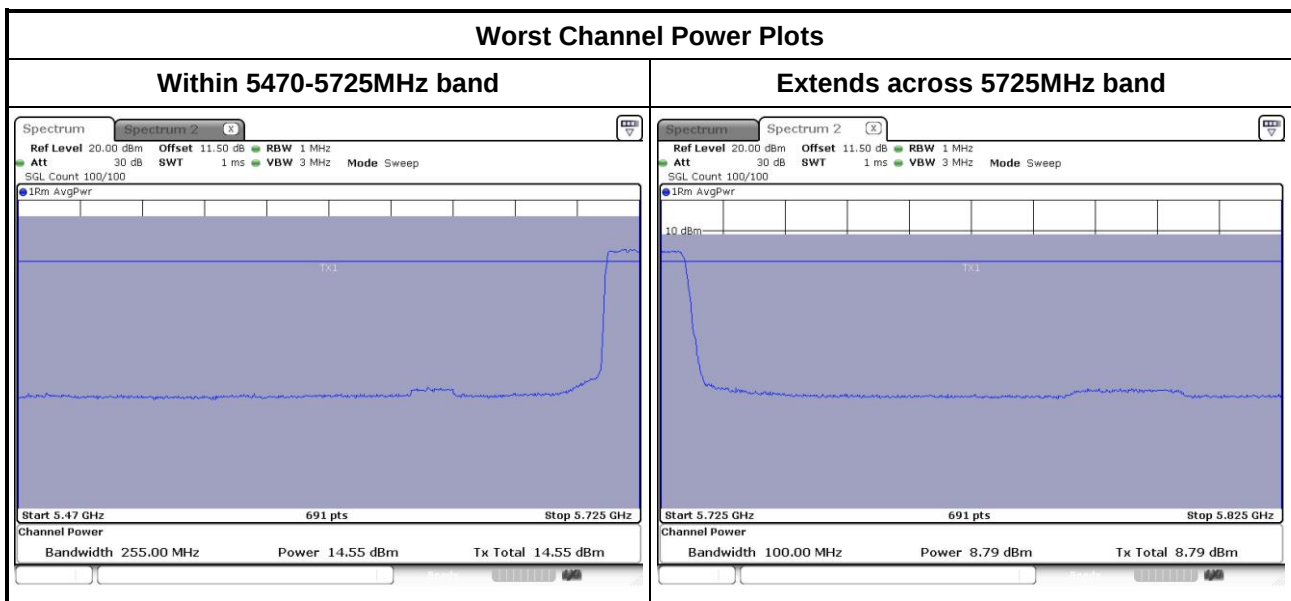
Channel that extends across the 5.725 GHz boundary

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	3	5720	14.48	14.04	14.17	---	19.01	0.00	79.527	19.01	21.79
HT40	3	5710	13.99	13.79	13.41	---	18.51	0.00	70.922	18.51	22.93
VHT20	3	5720	14.55	14.12	14.21	---	19.07	0.00	80.696	19.07	21.79
VHT40	3	5710	14.11	13.90	13.45	---	18.60	0.00	72.441	18.60	22.93
VHT80	3	5690	14.41	14.33	13.99	---	19.02	0.00	79.769	19.02	22.93

Note: Directional gain = $2.3 + 10 \cdot \log(3/1) = 7.07 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced 1.07 dB ($7.07 \text{ dBi} - 6 \text{ dBi}$)

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	3	5720	8.77	8.25	7.97	---	13.11	0.00	20.483	13.11	29.03
HT40	3	5710	3.47	3.25	2.96	---	8.00	0.00	6.314	8.00	29.03
VHT20	3	5720	8.79	8.32	7.99	---	13.15	0.00	20.655	13.15	29.03
VHT40	3	5710	3.48	3.47	3.09	---	8.12	0.00	6.489	8.12	29.03
VHT80	3	5690	-0.02	-0.34	-0.19	---	4.59	0.00	2.877	4.59	29.03

Note: Directional gain = $2.2 + 10 \cdot \log(3/1) = 6.97 \text{ dBi} > 6 \text{ dBi}$, Limit shall be reduced to $30 \text{ dBm} - (6.97 \text{ dBi} - 6 \text{ dBi}) = 29.03 \text{ dBm}$



3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	17 dBm / MHz
☐	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☐	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz
☐	5725 ~ 5850	30 dBm /500 kHz

3.4.2 Test Procedures

For 5250~5350 MHz, 5470~5725 MHz

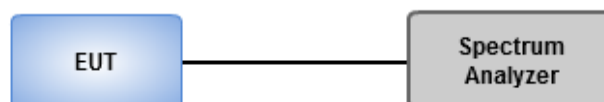
☒ Method SA-1 (for 11a/VHT20/VHT40))

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

☒ Method SA-2 Alternative (for VHT80)

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

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

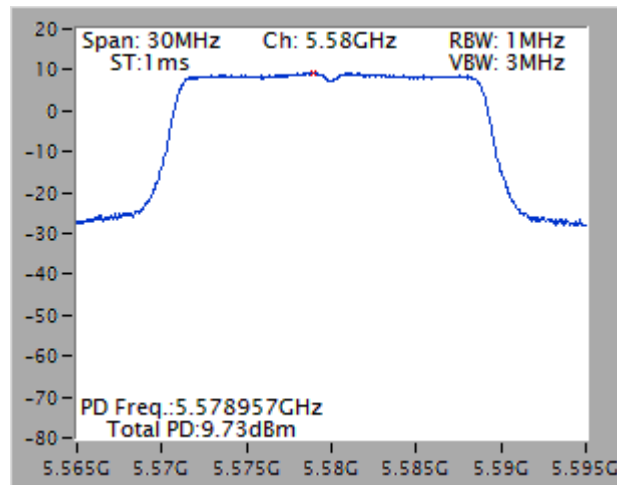
Non-beamforming mode

Frequency band			5250~5350 MHz / 5470~5725 MHz			
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	3	5260	9.43	0.00	9.43	9.93
11a	3	5300	9.22	0.00	9.22	9.93
11a	3	5320	8.74	0.00	8.74	9.93
VHT20	3	5260	9.53	0.00	9.53	9.93
VHT20	3	5300	9.22	0.00	9.22	9.93
VHT20	3	5320	8.50	0.00	8.50	9.93
VHT40	3	5270	8.14	0.00	8.14	9.93
VHT40	3	5310	4.96	0.00	4.96	9.93
VHT80	3	5290	-0.22	0.20	-0.02	9.93
11a	3	5500	8.73	0.00	8.73	9.93
11a	3	5580	9.41	0.00	9.41	9.93
11a	3	5700	9.44	0.00	9.44	9.93
11a	3	5720	9.44	0.00	9.44	9.93
VHT20	3	5500	7.99	0.00	7.99	9.93
VHT20	3	5580	9.73	0.00	9.73	9.93
VHT20	3	5700	9.06	0.00	9.06	9.93
VHT20	3	5720	9.43	0.00	9.43	9.93
VHT40	3	5510	3.94	0.00	3.94	9.93
VHT40	3	5550	7.28	0.00	7.28	9.93
VHT40	3	5670	7.89	0.00	7.89	9.93
VHT40	3	5710	8.06	0.00	8.06	9.93
VHT80	3	5530	-2.22	0.20	-2.02	9.93
VHT80	3	5690	4.25	0.20	4.45	9.93

Note:

1. D.F is duty factor.
2. Directional gain = $2.3 + 10 \cdot \log(3/1) = 7.07 \text{ dBi} > 6 \text{ dBi}$
Limit shall be reduced to 11 dBm $-(7.07 \text{ dBi} - 6 \text{ dBi}) = 9.93 \text{ dBm}$

Worst Plot



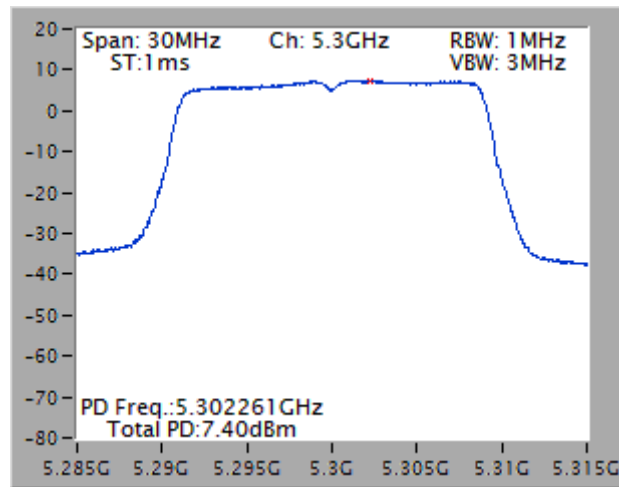
Beamforming mode

Frequency band			5250~5350 MHz / 5470~5725 MHz			
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	3	5260	7.34	0.00	7.34	9.93
VHT20	3	5300	7.40	0.00	7.40	9.93
VHT20	3	5320	7.36	0.00	7.36	9.93
VHT40	3	5270	4.88	0.00	4.88	9.93
VHT40	3	5310	4.27	0.00	4.27	9.93
VHT80	3	5290	0.33	0.00	0.33	9.93
VHT20	3	5500	6.34	0.00	6.34	9.93
VHT20	3	5580	6.51	0.00	6.51	9.93
VHT20	3	5700	6.54	0.00	6.54	9.93
VHT20	3	5720	7.09	0.00	7.09	9.93
VHT40	3	5510	2.93	0.00	2.93	9.93
VHT40	3	5550	3.66	0.00	3.66	9.93
VHT40	3	5670	2.90	0.00	2.90	9.93
VHT40	3	5710	3.30	0.00	3.30	9.93
VHT80	3	5530	-2.03	0.00	-2.03	9.93
VHT80	3	5690	0.73	0.00	0.73	9.93

Note:

1. D.F is duty factor.
2. Directional gain = $2.3 + 10 \cdot \log(3/1) = 7.07 \text{ dBi} > 6 \text{ dBi}$
Limit shall be reduced to 11 dBm $-(7.07 \text{ dBi} - 6 \text{ dBi}) = 9.93 \text{ dBm}$

Worst Plot



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 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

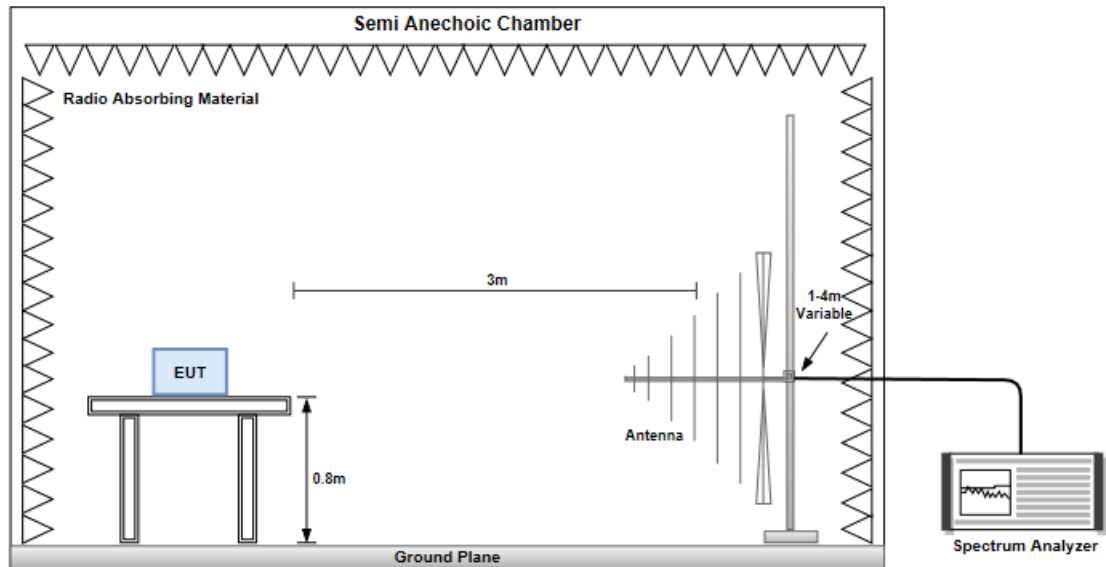
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360° . A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

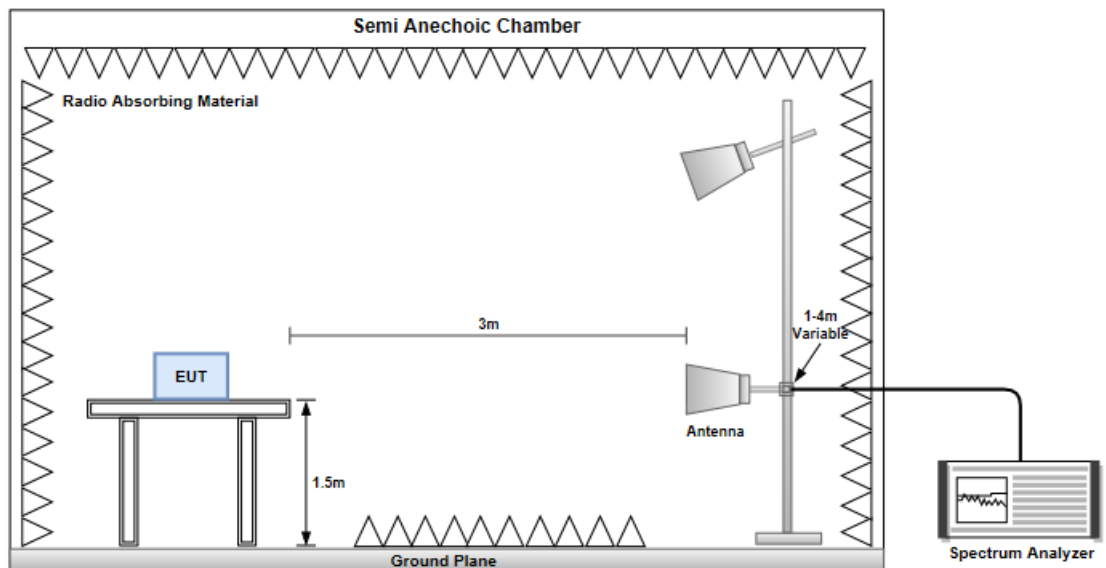
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz

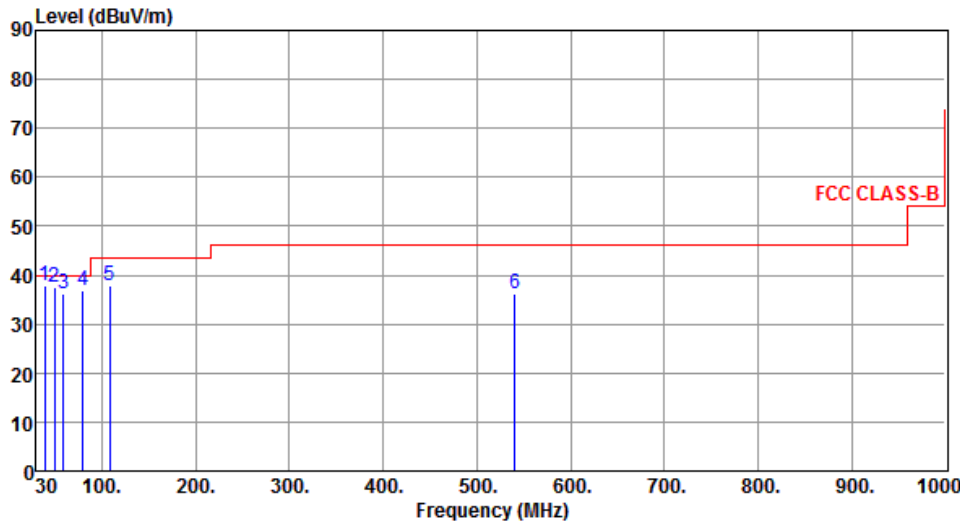


Non- beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT40	Test Freq. (MHz)	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	38.73	37.91	40.00	-2.09	46.10	-8.19	QP	100	10
2	49.40	37.58	40.00	-2.42	45.25	-7.67	QP	100	50
3	59.10	36.24	40.00	-3.76	44.62	-8.38	Peak	---	---
4	79.47	36.76	40.00	-3.24	49.52	-12.76	Peak	---	---
5	108.57	38.01	43.50	-5.49	49.76	-11.75	Peak	---	---
6	540.22	36.22	46.00	-9.78	38.17	-1.95	Peak	---	---

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

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

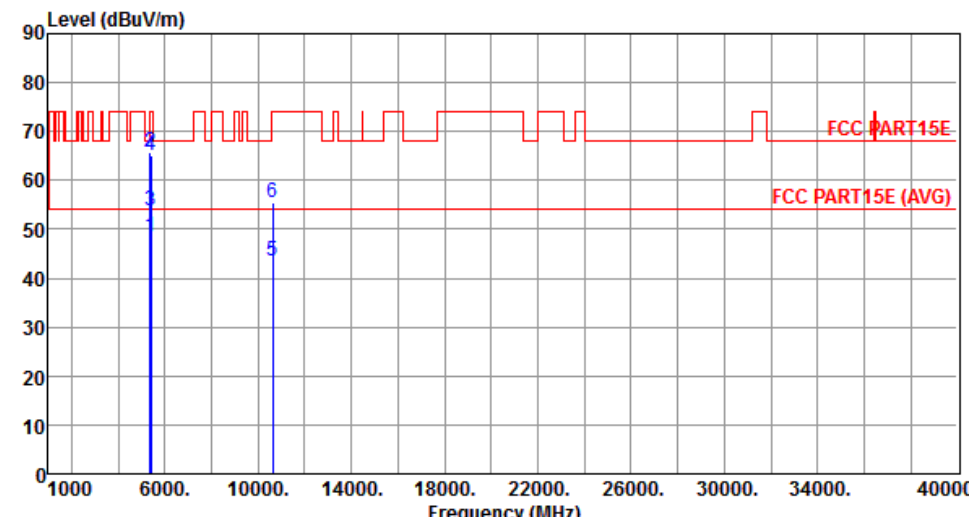
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		
Level (dBuV/m)			

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

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		
Level (dBuV/m) <			

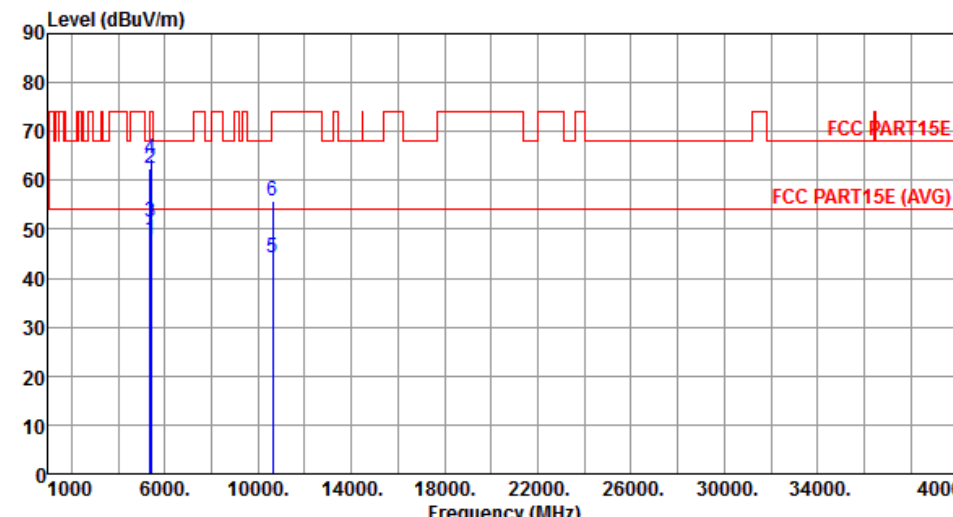
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.61	54.00	-5.39	43.87	4.74	Average	265	0
2	5350.00	65.60	74.00	-8.40	60.86	4.74	Peak	265	0
3	5400.00	53.83	54.00	-0.17	49.01	4.82	Average	265	0
4	5400.00	64.95	74.00	-9.05	60.13	4.82	Peak	265	0
5	10640.00	43.39	54.00	-10.61	29.21	14.18	Average	100	182
6	10640.00	55.42	74.00	-18.58	41.24	14.18	Peak	100	182

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).

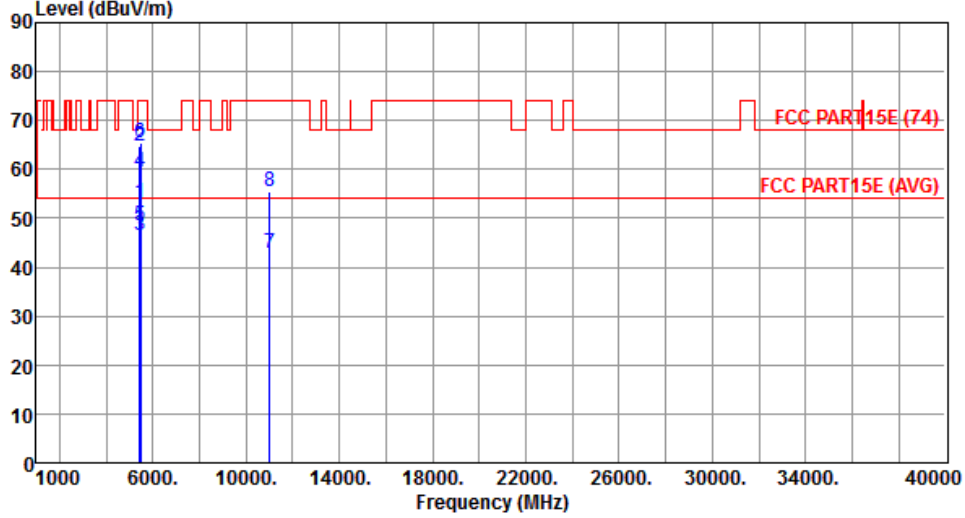
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.87	54.00	-6.13	43.13	4.74	Average	270	0
2	5350.00	62.43	74.00	-11.57	57.69	4.74	Peak	270	0
3	5400.00	51.63	54.00	-2.37	46.81	4.82	Average	270	0
4	5400.00	64.32	74.00	-9.68	59.50	4.82	Peak	270	0
5	10640.00	44.18	54.00	-9.82	30.00	14.18	Average	100	164
6	10640.00	55.88	74.00	-18.12	41.70	14.18	Peak	100	164

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).

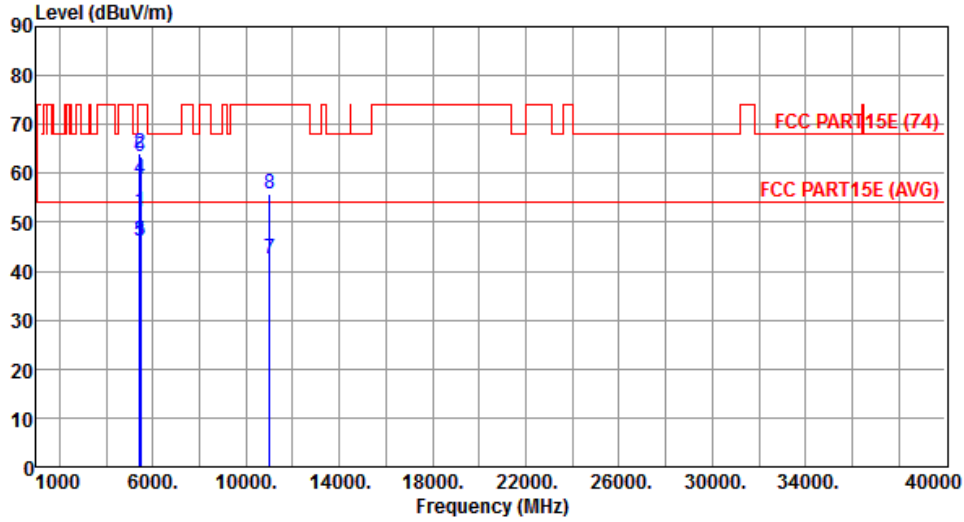
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



	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	53.04	54.00	-0.96	48.19	4.85	Average	280	0
2	5420.00	64.62	74.00	-9.38	59.77	4.85	Peak	280	0
3	5460.00	46.54	54.00	-7.46	41.65	4.89	Average	280	0
4	5460.00	59.29	74.00	-14.71	54.40	4.89	Peak	280	0
5	5470.00	48.56	54.00	-5.44	43.65	4.91	Average	280	0
6	5470.00	65.41	74.00	-8.59	60.50	4.91	Peak	280	0
7	11000.00	42.68	54.00	-11.32	28.00	14.68	Average	100	166
8	11000.00	55.41	74.00	-18.59	40.73	14.68	Peak	100	166

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).

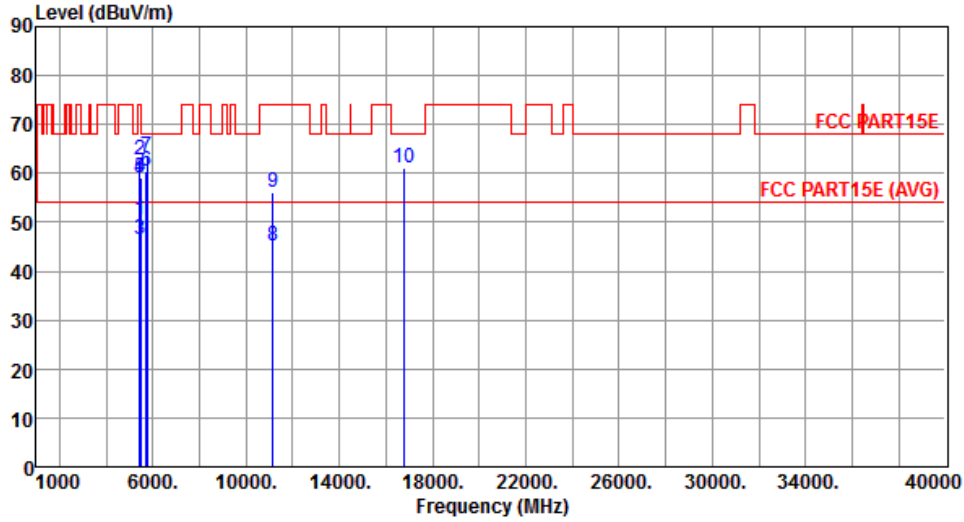
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	52.04	54.00	-1.96	47.19	4.85	Average	268	0
2	5420.00	64.07	74.00	-9.93	59.22	4.85	Peak	268	0
3	5460.00	46.14	54.00	-7.86	41.25	4.89	Average	268	0
4	5460.00	58.82	74.00	-15.18	53.93	4.89	Peak	268	0
5	5470.00	46.22	54.00	-7.78	41.31	4.91	Average	268	0
6	5470.00	63.40	74.00	-10.60	58.49	4.91	Peak	268	0
7	11000.00	42.49	54.00	-11.51	27.81	14.68	Average	100	171
8	11000.00	55.71	74.00	-18.29	41.03	14.68	Peak	100	171

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		

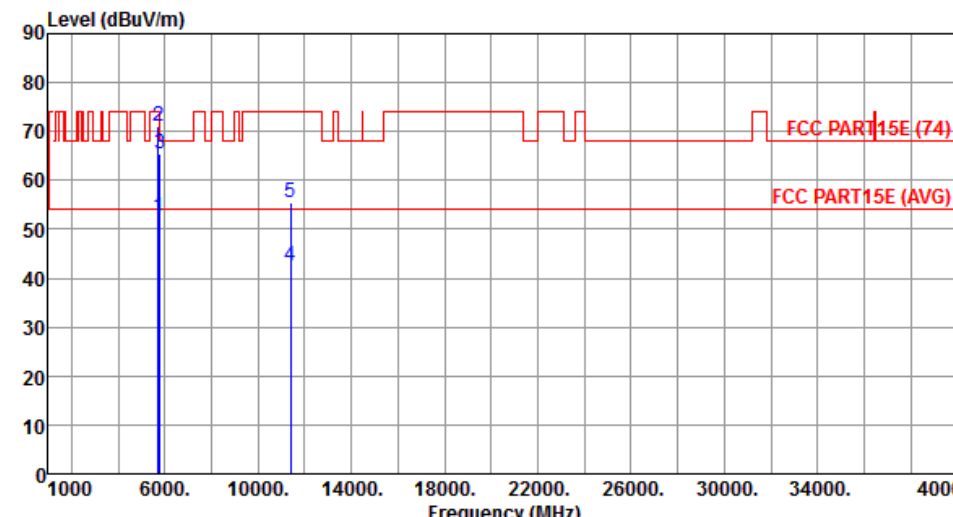


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5420.00	50.34	54.00	-3.66	45.49	4.85	Average	267	0
2	5420.00	62.68	74.00	-11.32	57.83	4.85	Peak	267	0
3	5460.00	46.59	54.00	-7.41	41.70	4.89	Average	267	0
4	5460.00	59.01	74.00	-14.99	54.12	4.89	Peak	267	0
5	5470.00	59.03	68.20	-9.17	54.12	4.91	Peak	267	0
6	5725.00	60.31	68.20	-7.89	54.99	5.32	Peak	267	0
7	5740.00	63.31	68.20	-4.89	57.97	5.34	Peak	267	0
8	11160.00	45.31	54.00	-8.69	30.59	14.72	Average	100	176
9	11160.00	55.98	74.00	-18.02	41.26	14.72	Peak	100	176
10	16740.00	61.12	68.20	-7.08	44.64	16.48	Peak	100	155

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		
Level (dBUV/m)			

Modulation	11a	Test Freq. (MHz)	5700
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	5725.00	52.58	54.00	-1.42	47.26	5.32	Average	274	0
2	5725.00	71.07	74.00	-2.93	65.75	5.32	Peak	274	0
3	5780.00	65.27	68.20	-2.93	59.86	5.41	Peak	274	0
4	11400.00	42.42	54.00	-11.58	27.63	14.79	Average	175	0
5	11400.00	55.37	74.00	-18.63	40.58	14.79	Peak	175	0

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		
Level (dBuV/m)			

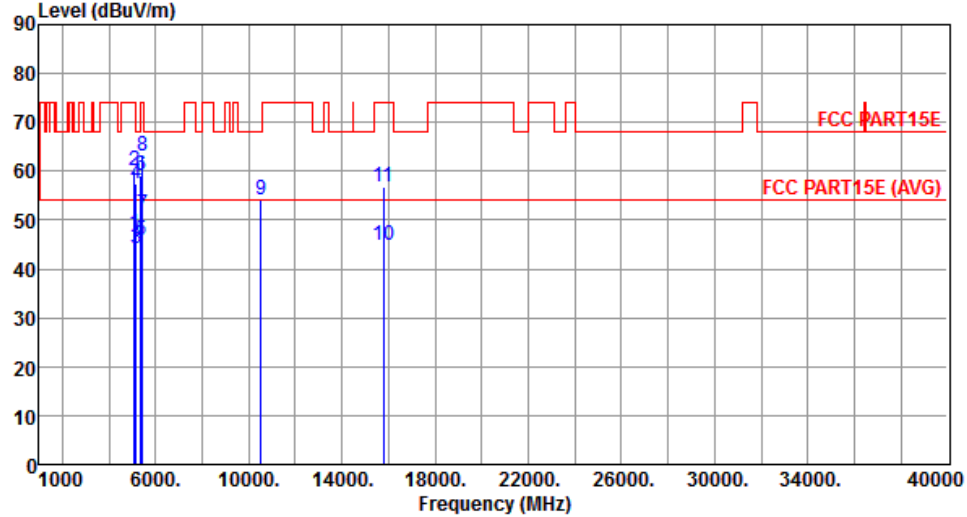
Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal		
Level (dBuV/m)			

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		



The spectrum plot shows the emission level in dBUV/m on the y-axis (0 to 90) against frequency in MHz on the x-axis (1000 to 40000). A red line represents the FCC PART15E limit, which is mostly flat at 54 dBUV/m with some steps. A blue line represents the measured emission level, showing several sharp peaks. Two specific peaks are labeled with numbers 9 and 10, corresponding to the data in the table below. The peak at 10520 MHz (labeled 9) has an emission level of 54.29 dBUV/m, and the peak at 15780 MHz (labeled 10) has an emission level of 44.67 dBUV/m. Both are below the 54 dBUV/m limit.

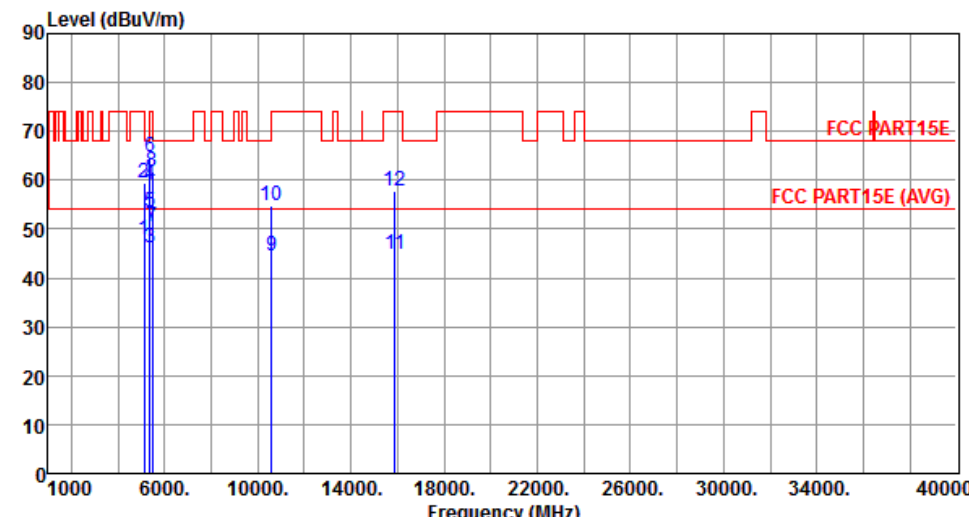
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5100.00	47.16	54.00	-6.84	42.73	4.43	Average	334	359
2	5100.00	60.12	74.00	-13.88	55.69	4.43	Peak	334	359
3	5150.00	44.32	54.00	-9.68	39.84	4.48	Average	334	359
4	5150.00	57.39	74.00	-16.61	52.91	4.48	Peak	334	359
5	5350.00	45.86	54.00	-8.14	41.12	4.74	Average	334	359
6	5350.00	59.02	74.00	-14.98	54.28	4.74	Peak	334	359
7	5420.00	51.23	54.00	-2.77	46.38	4.85	Average	334	359
8	5420.00	63.13	74.00	-10.87	58.28	4.85	Peak	334	359
9	10520.00	54.29	68.20	-13.91	40.28	14.01	Peak	100	253
10	15780.00	44.67	54.00	-9.33	30.66	14.01	Average	100	129
11	15780.00	56.82	74.00	-17.18	42.81	14.01	Peak	100	129

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

*Factor includes antenna factor , cable loss and amplifier gain

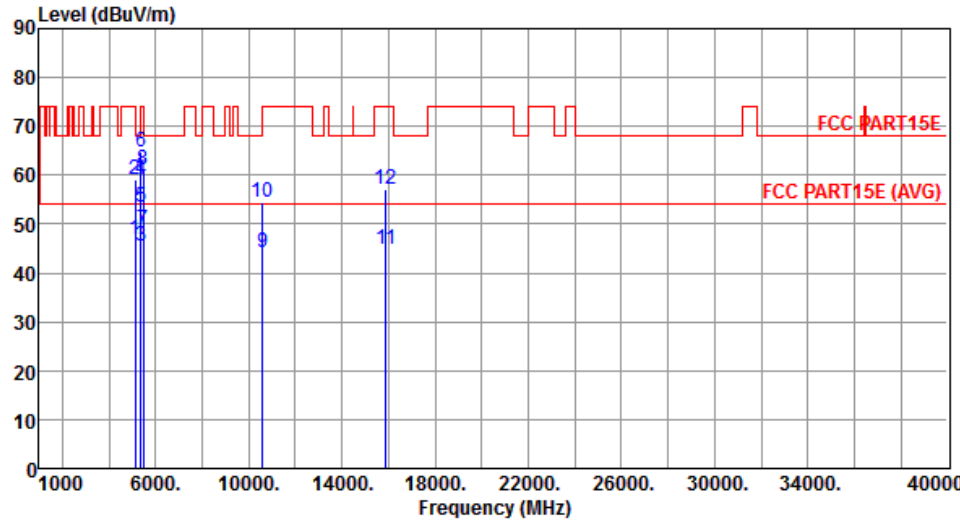
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT20	Test Freq. (MHz)	5300
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	5140.00	47.76	54.00	-6.24	43.29	4.47	Average	253	357
2	5140.00	59.49	74.00	-14.51	55.02	4.47	Peak	253	357
3	5350.00	46.28	54.00	-7.72	41.54	4.74	Average	253	357
4	5350.00	59.03	74.00	-14.97	54.29	4.74	Peak	253	357
5	5380.00	53.47	54.00	-0.53	48.68	4.79	Average	253	357
6	5380.00	64.62	74.00	-9.38	59.83	4.79	Peak	253	357
7	5460.00	50.57	54.00	-3.43	45.68	4.89	Average	253	357
8	5460.00	61.79	74.00	-12.21	56.90	4.89	Peak	253	357
9	10600.00	44.41	54.00	-9.59	30.29	14.12	Average	100	177
10	10600.00	54.69	74.00	-19.31	40.57	14.12	Peak	100	177
11	15900.00	44.72	54.00	-9.28	30.90	13.82	Average	100	177
12	15900.00	57.85	74.00	-16.15	44.03	13.82	Peak	100	177

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).

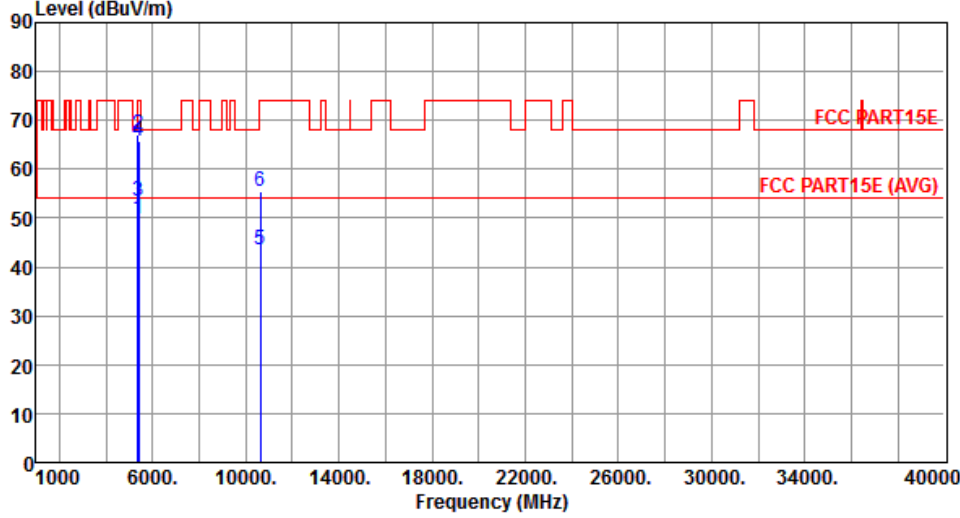
Modulation	VHT20	Test Freq. (MHz)	5300						
Polarization	Vertical								
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5140.00	46.76	54.00	-7.24	42.29	4.47	Average	357	359
2	5140.00	59.16	74.00	-14.84	54.69	4.47	Peak	357	359
3	5350.00	45.54	54.00	-8.46	40.80	4.74	Average	357	359
4	5350.00	59.09	74.00	-14.91	54.35	4.74	Peak	357	359
5	5380.00	53.37	54.00	-0.63	48.58	4.79	Average	357	359
6	5380.00	64.85	74.00	-9.15	60.06	4.79	Peak	357	359
7	5460.00	48.66	54.00	-5.34	43.77	4.89	Average	357	359
8	5460.00	61.06	74.00	-12.94	56.17	4.89	Peak	357	359
9	10600.00	44.16	54.00	-9.84	30.04	14.12	Average	100	267
10	10600.00	54.41	74.00	-19.59	40.29	14.12	Peak	100	267
11	15900.00	44.86	54.00	-9.14	31.04	13.82	Average	100	152
12	15900.00	56.97	74.00	-17.03	43.15	13.82	Peak	100	152

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).

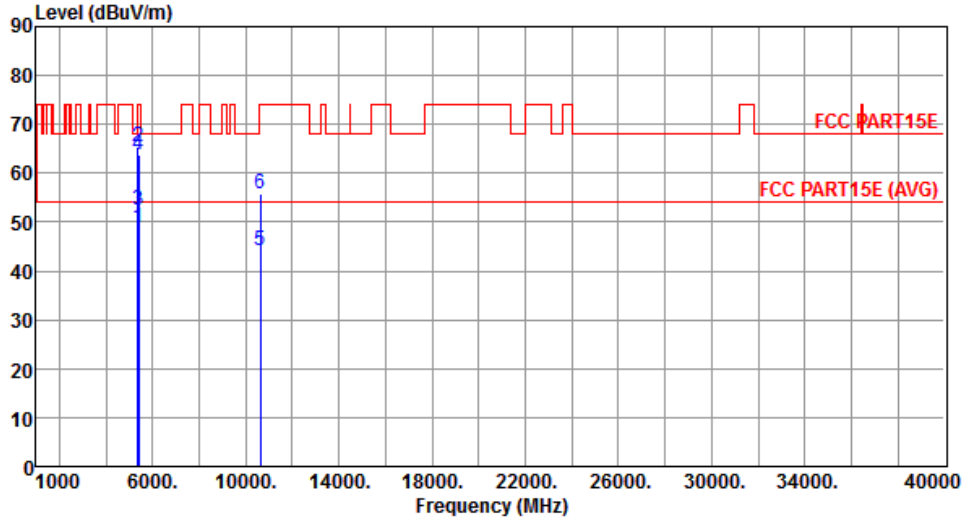
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.94	54.00	-4.06	45.20	4.74	Average	272	0
2	5350.00	67.23	74.00	-6.77	62.49	4.74	Peak	272	0
3	5400.00	53.60	54.00	-0.40	48.78	4.82	Average	272	0
4	5400.00	65.81	74.00	-8.19	60.99	4.82	Peak	272	0
5	10640.00	43.50	54.00	-10.50	29.32	14.18	Average	100	172
6	10640.00	55.56	74.00	-18.44	41.38	14.18	Peak	100	172

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	Vertical		



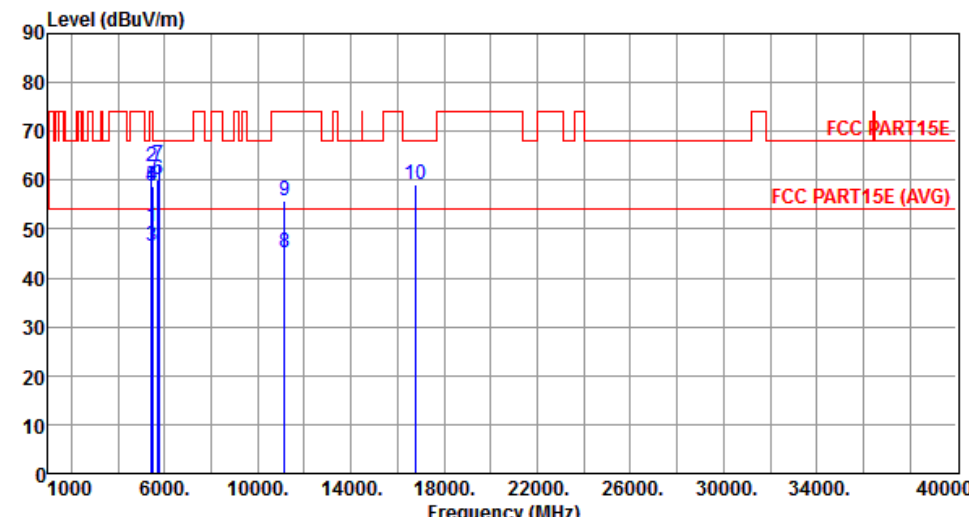
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.76	54.00	-5.24	44.02	4.74	Average	269	2
2	5350.00	65.51	74.00	-8.49	60.77	4.74	Peak	269	2
3	5400.00	52.37	54.00	-1.63	47.55	4.82	Average	269	2
4	5400.00	63.85	74.00	-10.15	59.03	4.82	Peak	269	2
5	10640.00	44.01	54.00	-9.99	29.83	14.18	Average	100	157
6	10640.00	55.72	74.00	-18.28	41.54	14.18	Peak	100	157

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		
Level (dBuV/m) <			

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

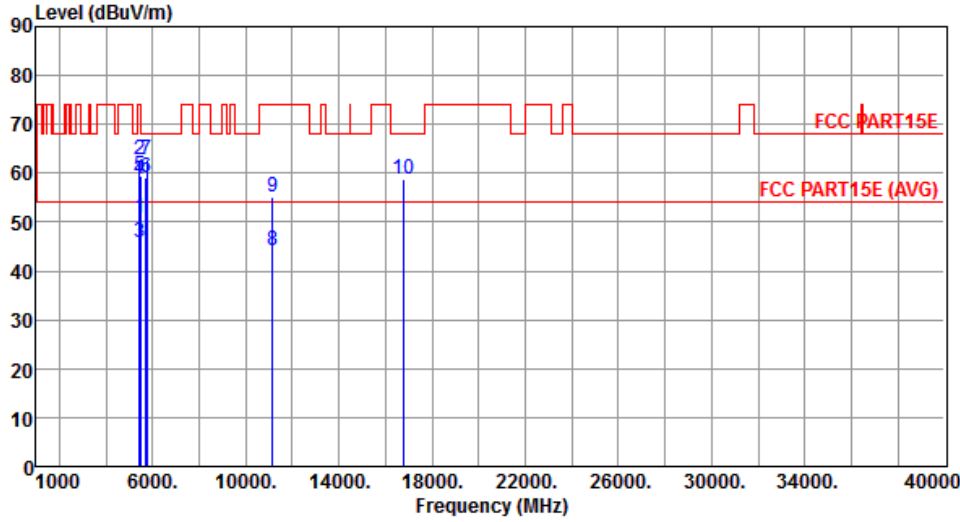
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	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	50.46	54.00	-3.54	45.61	4.85	Average	274	1
2	5420.00	62.80	74.00	-11.20	57.95	4.85	Peak	274	1
3	5460.00	46.51	54.00	-7.49	41.62	4.89	Average	274	1
4	5460.00	58.88	74.00	-15.12	53.99	4.89	Peak	274	1
5	5470.00	58.83	68.20	-9.37	53.92	4.91	Peak	274	1
6	5725.00	60.19	68.20	-8.01	54.87	5.32	Peak	274	1
7	5740.00	63.22	68.20	-4.98	57.88	5.34	Peak	274	1
8	11160.00	45.21	54.00	-8.79	30.49	14.72	Average	100	164
9	11160.00	55.72	74.00	-18.28	41.00	14.72	Peak	100	164
10	16740.00	58.95	68.20	-9.25	42.47	16.48	Peak	100	161

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).

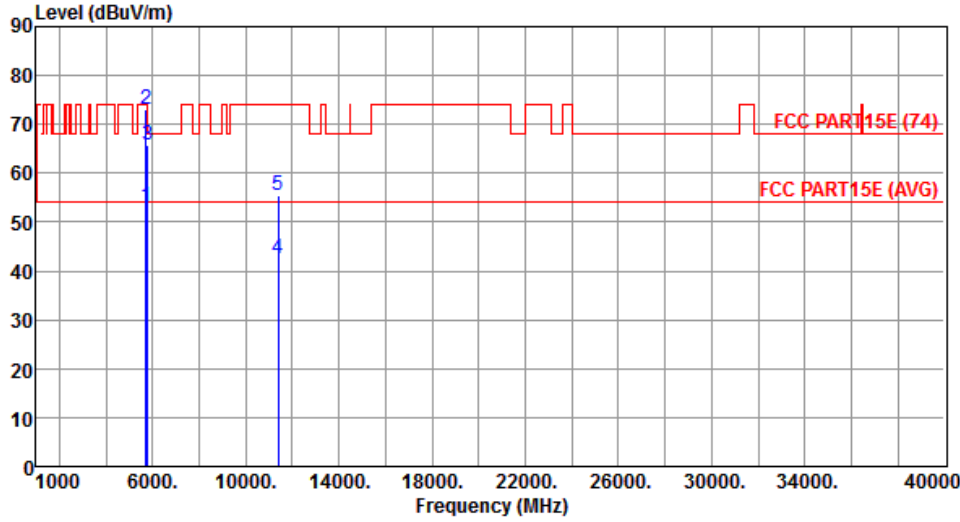
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	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	50.87	54.00	-3.13	46.02	4.85	Average	341	0
2	5420.00	62.91	74.00	-11.09	58.06	4.85	Peak	341	0
3	5460.00	45.72	54.00	-8.28	40.83	4.89	Average	341	0
4	5460.00	58.72	74.00	-15.28	53.83	4.89	Peak	341	0
5	5470.00	59.29	68.20	-8.91	54.38	4.91	Peak	341	0
6	5725.00	59.22	68.20	-8.98	53.90	5.32	Peak	341	0
7	5740.00	62.82	68.20	-5.38	57.48	5.34	Peak	341	0
8	11160.00	44.23	54.00	-9.77	29.51	14.72	Average	100	248
9	11160.00	55.22	74.00	-18.78	40.50	14.72	Peak	100	248
10	16740.00	58.91	68.20	-9.29	42.43	16.48	Peak	100	144

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).

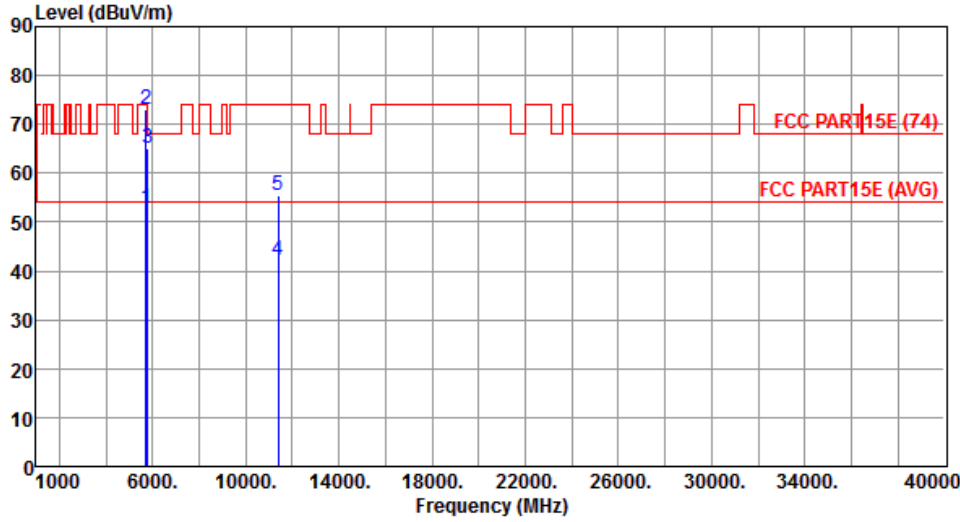
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	53.05	54.00	-0.95	47.73	5.32	Average	271	0
2	5725.00	73.16	74.00	-0.84	67.84	5.32	Peak	271	0
3	5780.00	65.61	68.20	-2.59	60.20	5.41	Peak	271	0
4	11400.00	42.51	54.00	-11.49	27.72	14.79	Average	100	185
5	11400.00	55.55	74.00	-18.45	40.76	14.79	Peak	100	185

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

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		

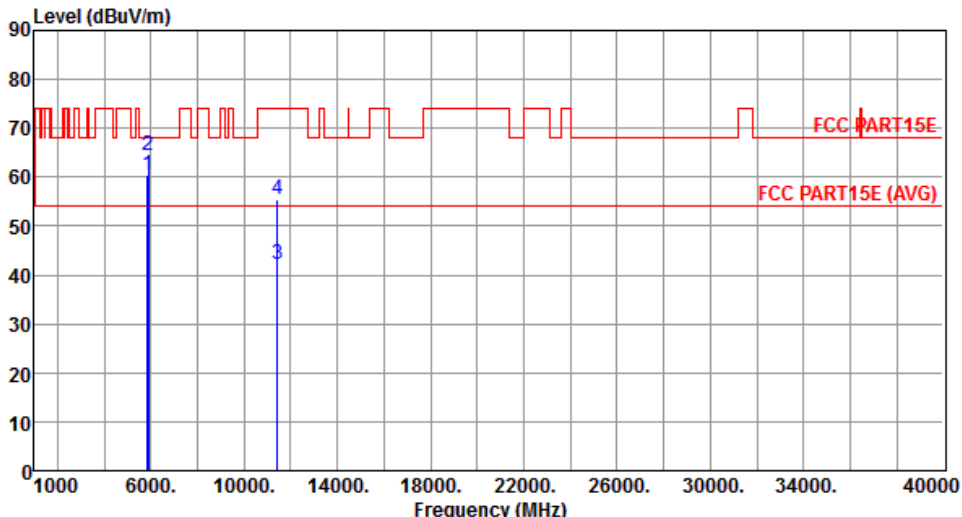


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.87	54.00	-1.13	47.55	5.32	Average	316	0
2	5725.00	73.00	74.00	-1.00	67.68	5.32	Peak	316	0
3	5780.00	65.25	68.20	-2.95	59.84	5.41	Peak	316	0
4	11400.00	42.22	54.00	-11.78	27.43	14.79	Average	100	162
5	11400.00	55.51	74.00	-18.49	40.72	14.79	Peak	100	162

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. 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	60.32	68.20	-7.88	54.80	5.52	Peak	348	10
2	5880.00	64.34	68.20	-3.86	58.77	5.57	Peak	348	10
3	11440.00	42.06	54.00	-11.94	27.26	14.80	Average	100	143
4	11440.00	55.31	74.00	-18.69	40.51	14.80	Peak	100	143

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

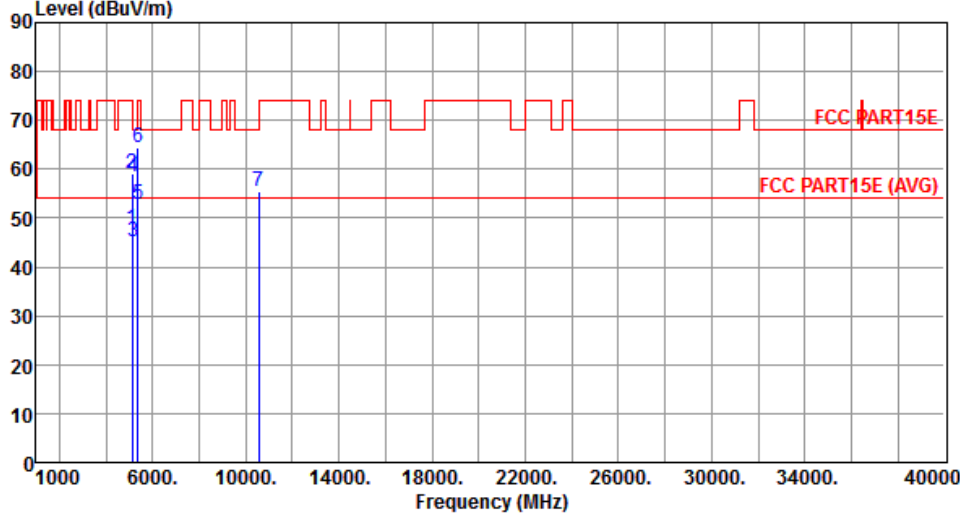
*Factor includes antenna factor , cable loss and amplifier gain

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

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

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

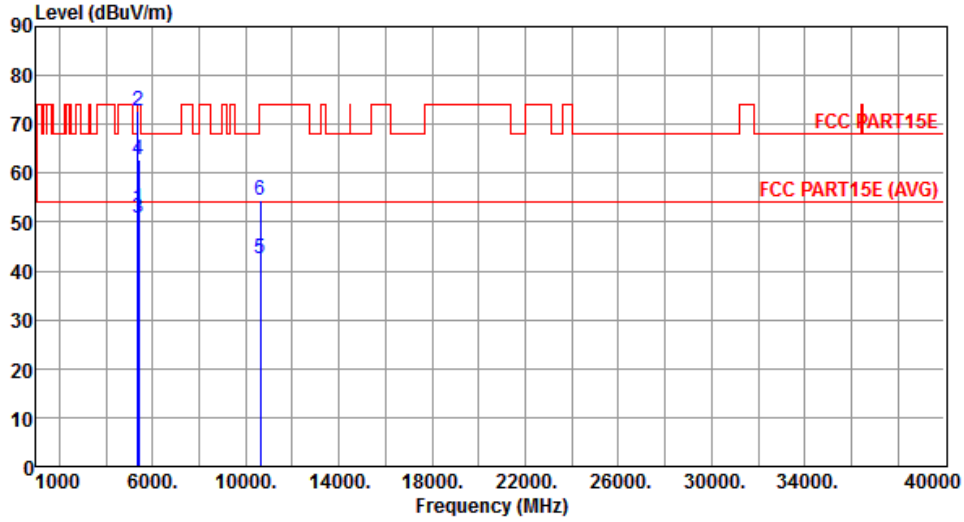
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5110.00	47.68	54.00	-6.32	43.24	4.44	Average	307	1
2	5110.00	59.03	74.00	-14.97	54.59	4.44	Peak	307	1
3	5150.00	45.28	54.00	-8.72	40.80	4.48	Average	307	1
4	5150.00	58.32	74.00	-15.68	53.84	4.48	Peak	307	1
5	5350.00	52.68	54.00	-1.32	47.94	4.74	Average	307	1
6	5350.00	64.36	74.00	-9.64	59.62	4.74	Peak	307	1
7	10540.00	55.42	68.20	-12.78	41.38	14.04	Peak	100	167

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

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		

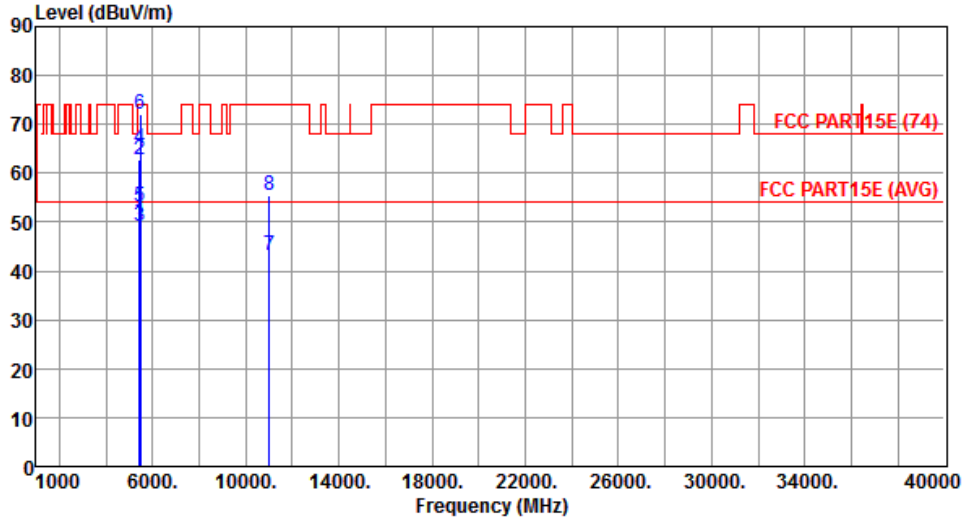


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.84	54.00	-1.16	48.10	4.74	Average	272	0
2	5350.00	72.63	74.00	-1.37	67.89	4.74	Peak	272	0
3	5390.00	50.70	54.00	-3.30	45.90	4.80	Average	272	0
4	5390.00	62.77	74.00	-11.23	57.97	4.80	Peak	272	0
5	10620.00	42.43	54.00	-11.57	28.29	14.14	Average	100	172
6	10620.00	54.62	74.00	-19.38	40.48	14.14	Peak	100	172

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		
Level (dBuV/m) </			

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		



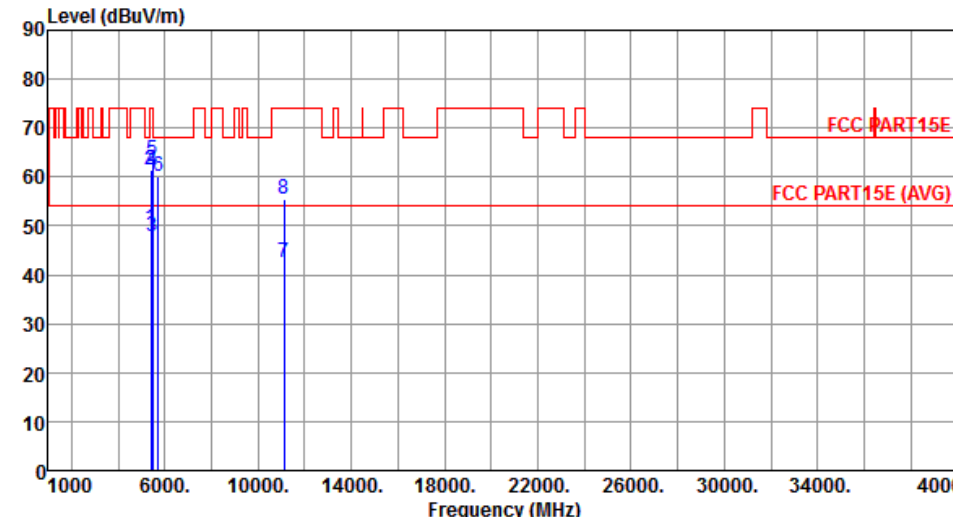
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5430.00	50.12	54.00	-3.88	45.27	4.85	Average	267	0
2	5430.00	62.88	74.00	-11.12	58.03	4.85	Peak	267	0
3	5460.00	49.27	54.00	-4.73	44.38	4.89	Average	267	0
4	5460.00	65.03	74.00	-8.97	60.14	4.89	Peak	267	0
5	5470.00	53.26	54.00	-0.74	48.35	4.91	Average	267	0
6	5470.00	71.90	74.00	-2.10	66.99	4.91	Peak	267	0
7	11020.00	43.13	54.00	-10.87	28.44	14.69	Average	100	156
8	11020.00	55.47	74.00	-18.53	40.78	14.69	Peak	100	156

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

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

Modulation	VHT40	Test Freq. (MHz)	5550																																																																																
Polarization	Horizontal																																																																																		
Level (dBuV/m) Freq. Emission Limit Margin SA Factor Remark ANT Turn MHz level dBuV/m dBuV/m dB reading dBuV dB cm deg <table><tr><td>1</td><td>5390.00</td><td>50.52</td><td>54.00</td><td>-3.48</td><td>46.05</td><td>4.47</td><td>Average</td><td>271</td><td>1</td></tr><tr><td>2</td><td>5390.00</td><td>59.86</td><td>74.00</td><td>-14.14</td><td>55.39</td><td>4.47</td><td>Peak</td><td>271</td><td>1</td></tr><tr><td>3</td><td>5460.00</td><td>48.81</td><td>54.00</td><td>-5.19</td><td>44.30</td><td>4.51</td><td>Average</td><td>271</td><td>1</td></tr><tr><td>4</td><td>5460.00</td><td>62.11</td><td>74.00</td><td>-11.89</td><td>57.60</td><td>4.51</td><td>Peak</td><td>271</td><td>1</td></tr><tr><td>5</td><td>5470.00</td><td>63.03</td><td>68.20</td><td>-5.17</td><td>58.51</td><td>4.52</td><td>Peak</td><td>271</td><td>1</td></tr><tr><td>6</td><td>5725.00</td><td>60.57</td><td>68.20</td><td>-7.63</td><td>55.73</td><td>4.84</td><td>Peak</td><td>271</td><td>1</td></tr><tr><td>7</td><td>11100.00</td><td>41.92</td><td>54.00</td><td>-12.08</td><td>27.78</td><td>14.14</td><td>Average</td><td>100</td><td>158</td></tr><tr><td>8</td><td>11100.00</td><td>55.71</td><td>74.00</td><td>-18.29</td><td>41.57</td><td>14.14</td><td>Peak</td><td>100</td><td>158</td></tr></table>				1	5390.00	50.52	54.00	-3.48	46.05	4.47	Average	271	1	2	5390.00	59.86	74.00	-14.14	55.39	4.47	Peak	271	1	3	5460.00	48.81	54.00	-5.19	44.30	4.51	Average	271	1	4	5460.00	62.11	74.00	-11.89	57.60	4.51	Peak	271	1	5	5470.00	63.03	68.20	-5.17	58.51	4.52	Peak	271	1	6	5725.00	60.57	68.20	-7.63	55.73	4.84	Peak	271	1	7	11100.00	41.92	54.00	-12.08	27.78	14.14	Average	100	158	8	11100.00	55.71	74.00	-18.29	41.57	14.14	Peak	100	158
1	5390.00	50.52	54.00	-3.48	46.05	4.47	Average	271	1																																																																										
2	5390.00	59.86	74.00	-14.14	55.39	4.47	Peak	271	1																																																																										
3	5460.00	48.81	54.00	-5.19	44.30	4.51	Average	271	1																																																																										
4	5460.00	62.11	74.00	-11.89	57.60	4.51	Peak	271	1																																																																										
5	5470.00	63.03	68.20	-5.17	58.51	4.52	Peak	271	1																																																																										
6	5725.00	60.57	68.20	-7.63	55.73	4.84	Peak	271	1																																																																										
7	11100.00	41.92	54.00	-12.08	27.78	14.14	Average	100	158																																																																										
8	11100.00	55.71	74.00	-18.29	41.57	14.14	Peak	100	158																																																																										
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)	5550
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	5390.00	49.45	54.00	-4.55	44.98	4.47	Average	358	2
2	5390.00	61.36	74.00	-12.64	56.89	4.47	Peak	358	2
3	5460.00	47.91	54.00	-6.09	43.40	4.51	Average	358	2
4	5460.00	61.47	74.00	-12.53	56.96	4.51	Peak	358	2
5	5470.00	63.57	68.20	-4.63	59.05	4.52	Peak	358	2
6	5725.00	60.12	68.20	-8.08	55.28	4.84	Peak	358	2
7	11100.00	42.51	54.00	-11.49	28.37	14.14	Average	100	172
8	11100.00	55.41	74.00	-18.59	41.27	14.14	Peak	100	172

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		
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical		
Level (dBuV/m)			

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

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		
Level (dBuV/m) </			

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

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		
Level (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	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		
Level (dBuV/m)			

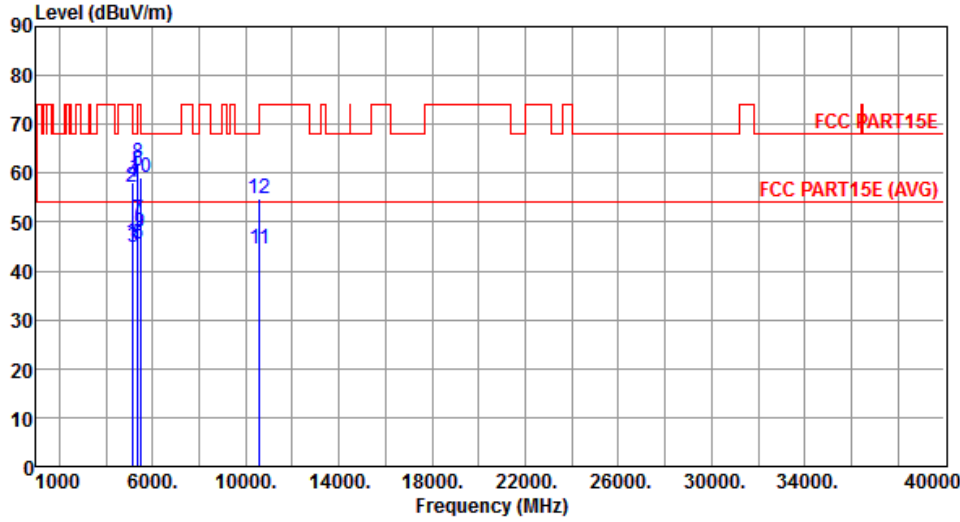
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		
Level (dBuV/m) </			

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

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

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

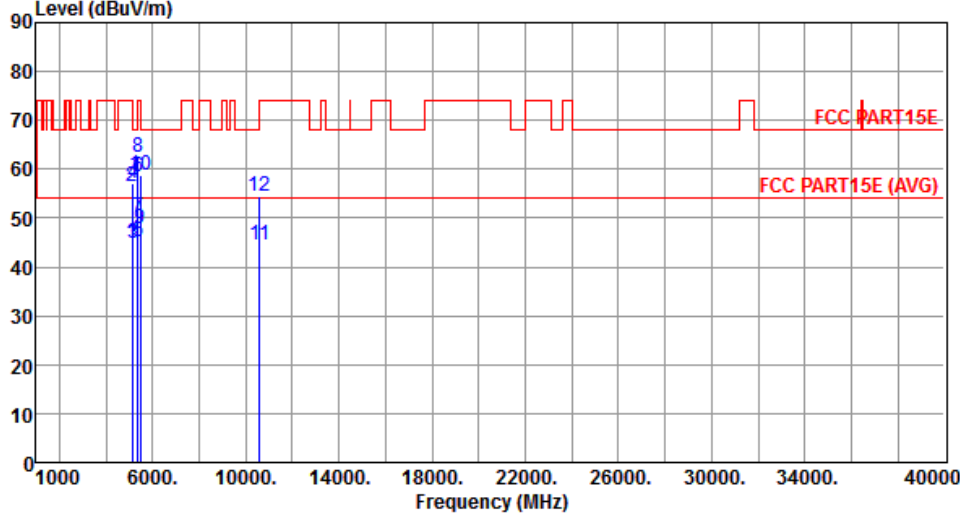
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5140.00	45.92	54.00	-8.08	41.45	4.47	Average	100	7
2	5140.00	57.07	74.00	-16.93	52.60	4.47	Peak	100	7
3	5150.00	44.69	54.00	-9.31	40.21	4.48	Average	100	7
4	5150.00	58.09	74.00	-15.91	53.61	4.48	Peak	100	7
5	5350.00	45.62	54.00	-8.38	40.88	4.74	Average	100	7
6	5350.00	60.59	74.00	-13.41	55.85	4.74	Peak	100	7
7	5380.00	50.41	54.00	-3.59	45.62	4.79	Average	100	7
8	5380.00	62.02	74.00	-11.98	57.23	4.79	Peak	100	7
9	5460.00	47.89	54.00	-6.11	43.00	4.89	Average	100	7
10	5460.00	59.14	74.00	-14.86	54.25	4.89	Peak	100	7
11	10600.00	44.61	54.00	-9.39	30.49	14.12	Average	100	262
12	10600.00	54.94	74.00	-19.06	40.82	14.12	Peak	100	262

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

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



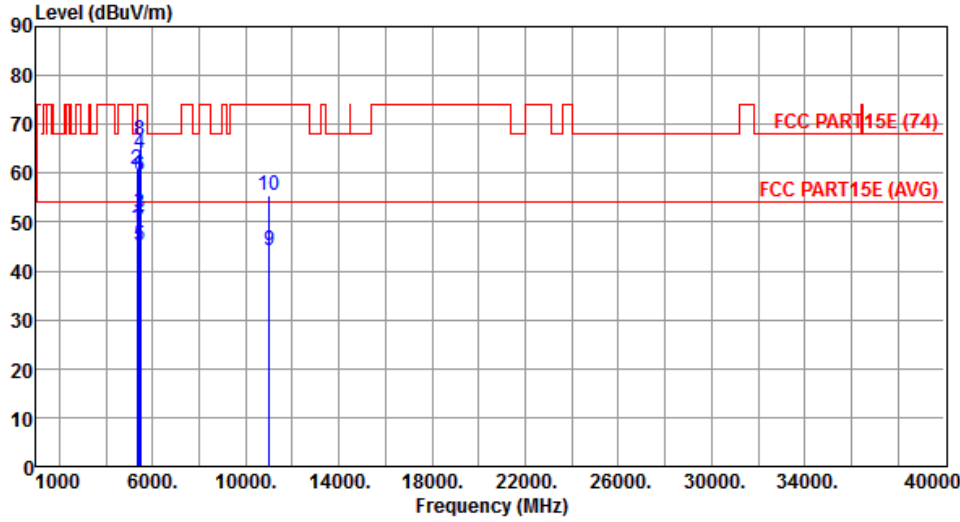
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5140.00	44.84	54.00	-9.16	40.37	4.47	Average	255	4
2	5140.00	56.48	74.00	-17.52	52.01	4.47	Peak	255	4
3	5150.00	44.74	54.00	-9.26	40.26	4.48	Average	255	4
4	5150.00	57.13	74.00	-16.87	52.65	4.48	Peak	255	4
5	5350.00	45.30	54.00	-8.70	40.56	4.74	Average	255	4
6	5350.00	58.51	74.00	-15.49	53.77	4.74	Peak	255	4
7	5380.00	50.04	54.00	-3.96	45.25	4.79	Average	255	4
8	5380.00	62.34	74.00	-11.66	57.55	4.79	Peak	255	4
9	5460.00	47.67	54.00	-6.33	42.78	4.89	Average	255	4
10	5460.00	58.89	74.00	-15.11	54.00	4.89	Peak	255	4
11	10600.00	44.38	54.00	-9.62	30.26	14.12	Average	100	141
12	10600.00	54.48	74.00	-19.52	40.36	14.12	Peak	100	141

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		
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		

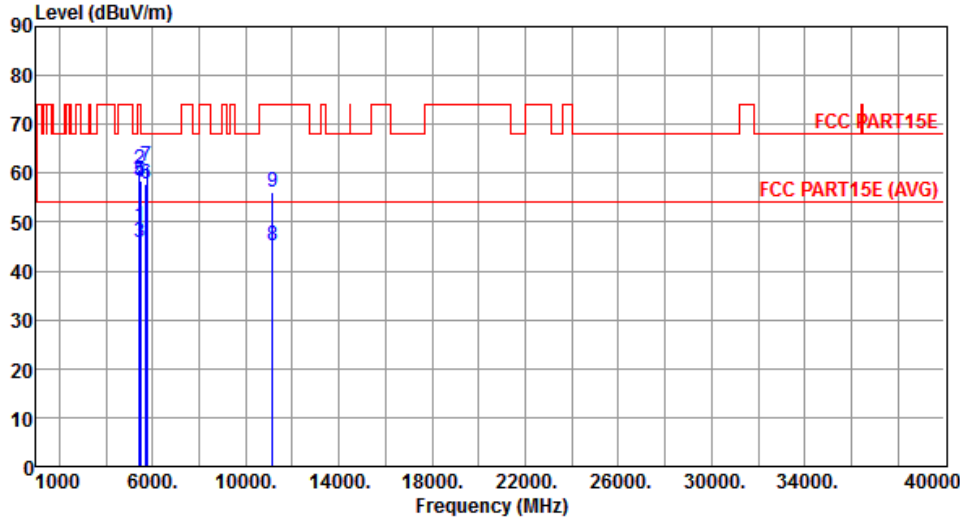


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5340.00	48.98	54.00	-5.02	44.26	4.72	Average	100	344
2	5340.00	60.79	74.00	-13.21	56.07	4.72	Peak	100	344
3	5420.00	51.85	54.00	-2.15	47.00	4.85	Average	100	344
4	5420.00	64.08	74.00	-9.92	59.23	4.85	Peak	100	344
5	5460.00	45.19	54.00	-8.81	40.30	4.89	Average	100	344
6	5460.00	59.44	74.00	-14.56	54.55	4.89	Peak	100	344
7	5470.00	48.42	54.00	-5.58	43.51	4.91	Average	100	344
8	5470.00	66.75	74.00	-7.25	61.84	4.91	Peak	100	344
9	11000.00	44.13	54.00	-9.87	29.45	14.68	Average	100	267
10	11000.00	55.40	74.00	-18.60	40.72	14.68	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	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		
Level (dBuV/m)			

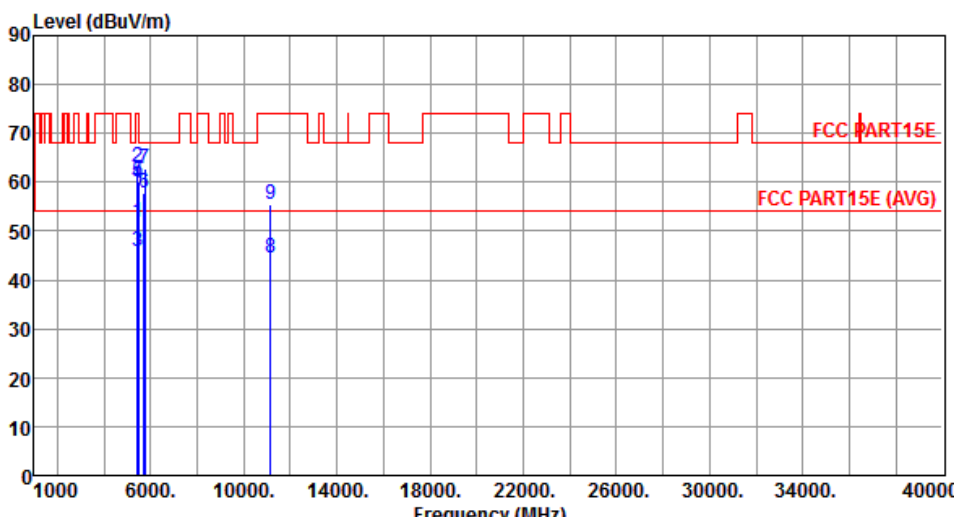
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	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	49.19	54.00	-4.81	44.34	4.85	Average	100	335
2	5420.00	60.87	74.00	-13.13	56.02	4.85	Peak	100	335
3	5460.00	45.77	54.00	-8.23	40.88	4.89	Average	100	335
4	5460.00	58.24	74.00	-15.76	53.35	4.89	Peak	100	335
5	5470.00	58.56	68.20	-9.64	53.65	4.91	Peak	100	335
6	5725.00	57.68	68.20	-10.52	52.36	5.32	Peak	100	335
7	5740.00	61.55	68.20	-6.65	56.21	5.34	Peak	100	335
8	11160.00	45.24	54.00	-8.76	30.52	14.72	Average	100	235
9	11160.00	55.98	74.00	-18.02	41.26	14.72	Peak	100	235

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		

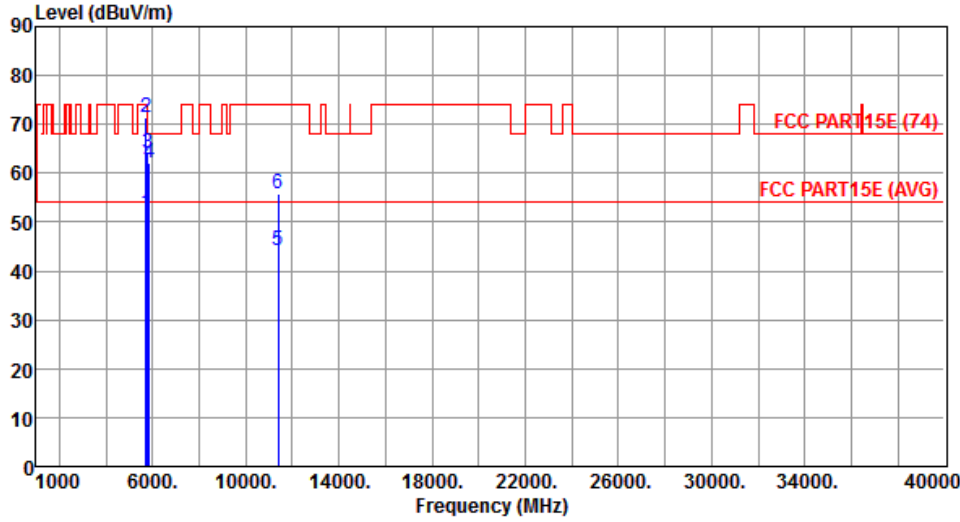


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5420.00	51.74	54.00	-2.26	46.89	4.85	Average	257	2
2	5420.00	63.24	74.00	-10.76	58.39	4.85	Peak	257	2
3	5460.00	45.82	54.00	-8.18	40.93	4.89	Average	257	2
4	5460.00	59.81	74.00	-14.19	54.92	4.89	Peak	257	2
5	5470.00	60.03	68.20	-8.17	55.12	4.91	Peak	257	2
6	5725.00	57.72	68.20	-10.48	52.40	5.32	Peak	257	2
7	5740.00	62.78	68.20	-5.42	57.44	5.34	Peak	257	2
8	11160.00	44.39	54.00	-9.61	29.67	14.72	Average	100	137
9	11160.00	55.38	74.00	-18.62	40.66	14.72	Peak	100	137

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).

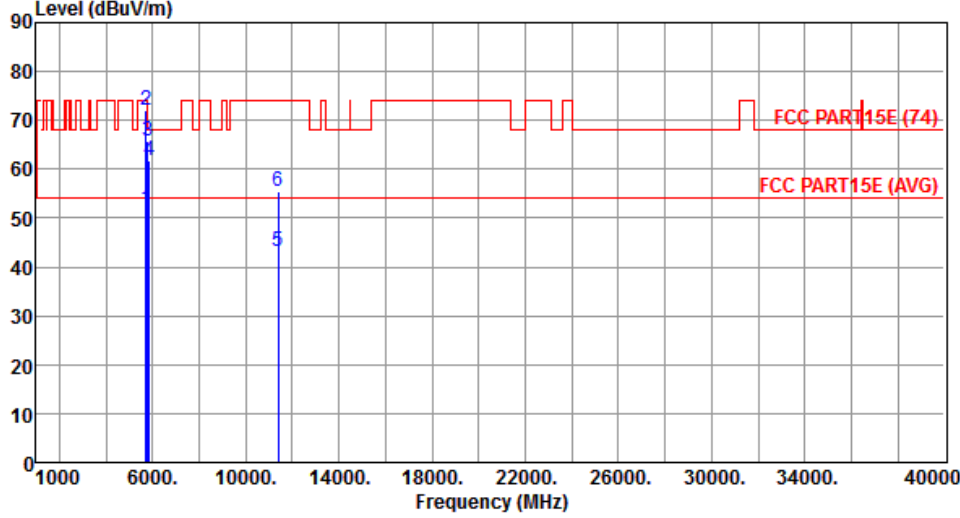
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	51.77	54.00	-2.23	46.45	5.32	Average	135	4
2	5725.00	71.44	74.00	-2.56	66.12	5.32	Peak	135	4
3	5780.00	64.01	68.20	-4.19	58.60	5.41	Peak	271	4
4	5860.00	62.17	68.20	-6.03	56.63	5.54	Peak	271	4
5	11400.00	44.12	54.00	-9.88	29.33	14.79	Average	100	269
6	11400.00	55.87	74.00	-18.13	41.08	14.79	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	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	51.78	54.00	-2.22	46.46	5.32	Average	249	3
2	5725.00	72.12	74.00	-1.88	66.80	5.32	Peak	249	3
3	5780.00	65.71	68.20	-2.49	60.30	5.41	Peak	249	3
4	5860.00	61.89	68.20	-6.31	56.35	5.54	Peak	249	3
5	11400.00	43.23	54.00	-10.77	28.44	14.79	Average	100	147
6	11400.00	55.61	74.00	-18.39	40.82	14.79	Peak	100	147

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).

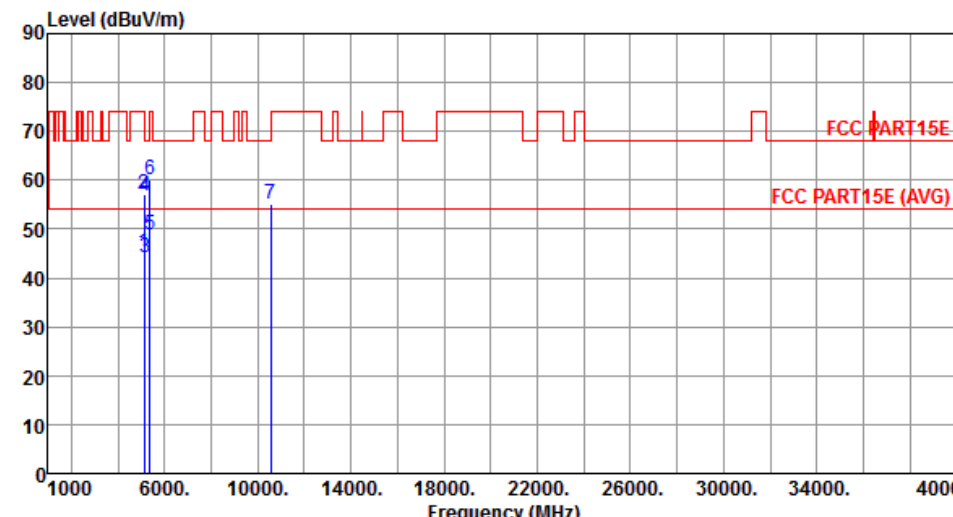
Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Horizontal		
Level (dBuV/m) </			

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

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

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

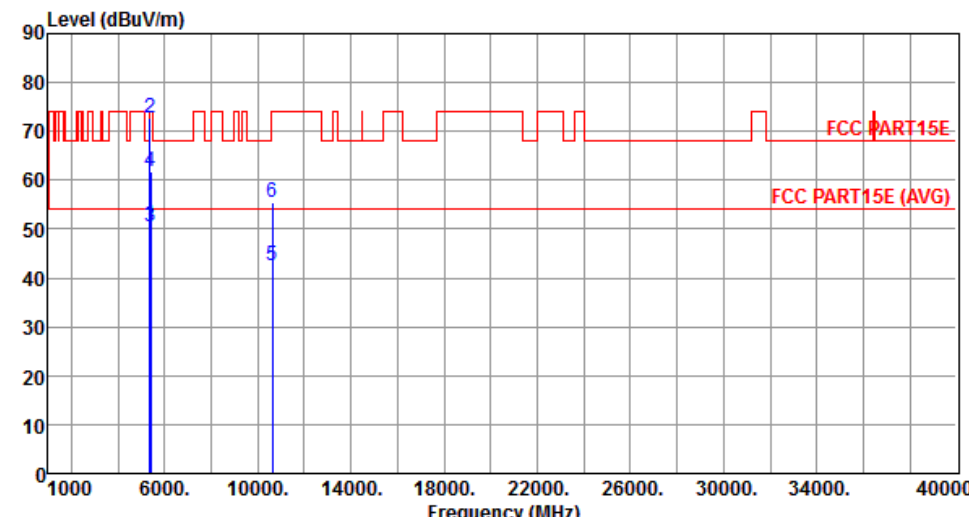
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	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	45.09	54.00	-8.91	40.65	4.44	Average	217	350
2	5110.00	57.19	74.00	-16.81	52.75	4.44	Peak	217	350
3	5150.00	44.33	54.00	-9.67	39.85	4.48	Average	217	350
4	5150.00	56.75	74.00	-17.25	52.27	4.48	Peak	217	350
5	5350.00	48.79	54.00	-5.21	44.05	4.74	Average	217	350
6	5350.00	59.95	74.00	-14.05	55.21	4.74	Peak	217	350
7	10540.00	55.29	68.20	-12.91	41.25	14.04	Peak	100	176

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

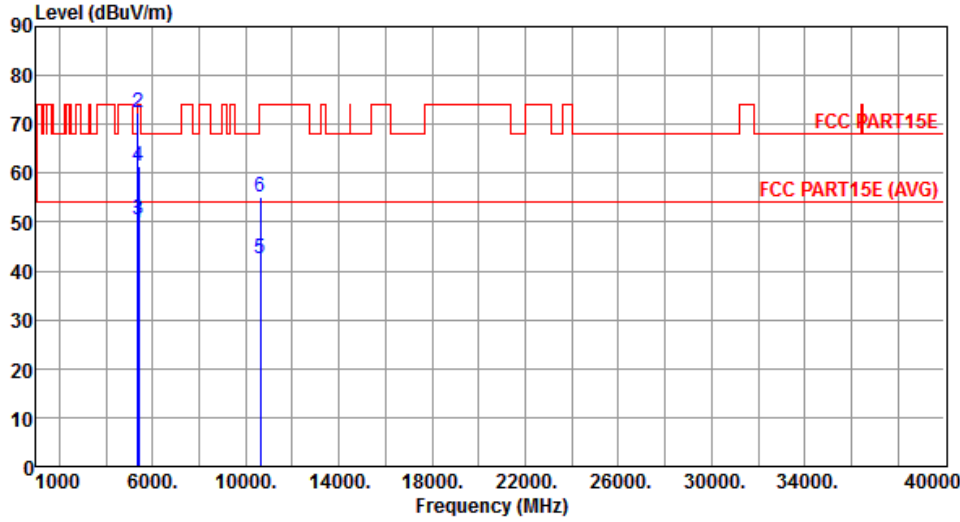
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	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	50.93	54.00	-3.07	46.19	4.74	Average	100	7
2	5350.00	72.84	74.00	-1.16	68.10	4.74	Peak	100	7
3	5390.00	50.46	54.00	-3.54	45.66	4.80	Average	100	7
4	5390.00	61.84	74.00	-12.16	57.04	4.80	Peak	100	7
5	10620.00	42.52	54.00	-11.48	28.38	14.14	Average	100	145
6	10620.00	55.39	74.00	-18.61	41.25	14.14	Peak	100	145

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).

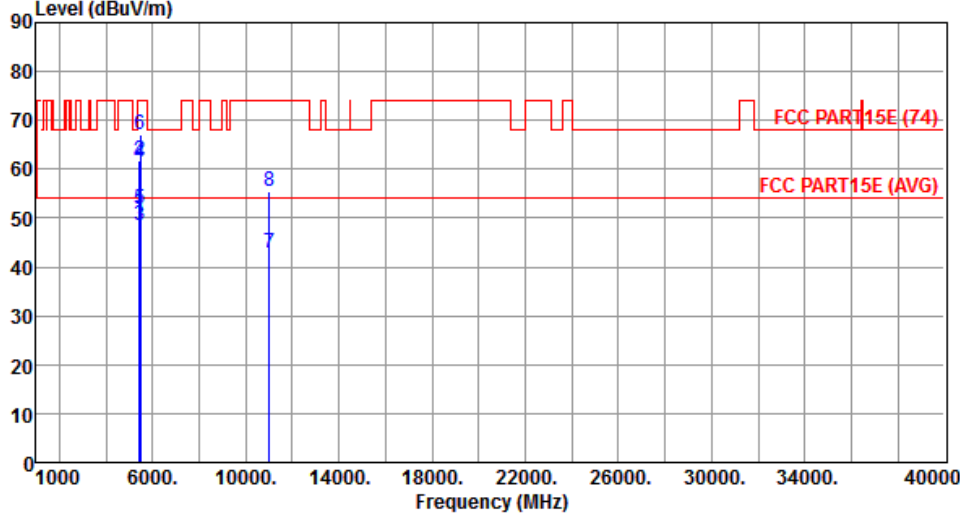
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.65	54.00	-4.35	44.91	4.74	Average	272	50
2	5350.00	72.51	74.00	-1.49	67.77	4.74	Peak	272	50
3	5390.00	50.39	74.00	-23.61	45.59	4.80	Peak	272	50
4	5390.00	61.59	74.00	-12.41	56.79	4.80	Peak	272	50
5	10620.00	42.50	54.00	-11.50	28.36	14.14	Average	100	166
6	10620.00	55.00	74.00	-19.00	40.86	14.14	Peak	100	166

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		

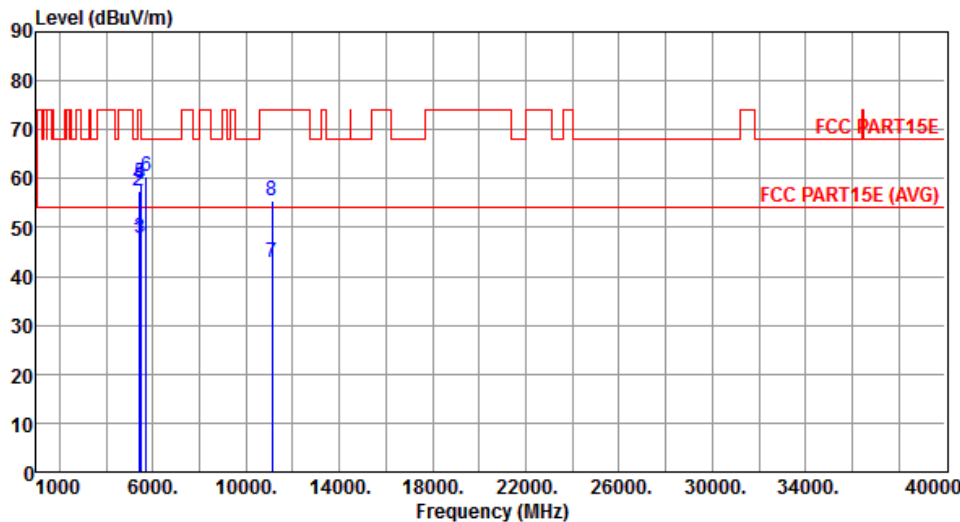


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5430.00	50.05	54.00	-3.95	45.20	4.85	Average	132	8
2	5430.00	61.68	74.00	-12.32	56.83	4.85	Peak	132	8
3	5460.00	48.43	54.00	-5.57	43.54	4.89	Average	132	8
4	5460.00	61.45	74.00	-12.55	56.56	4.89	Peak	132	8
5	5470.00	51.70	54.00	-2.30	46.79	4.91	Average	132	8
6	5470.00	67.16	74.00	-6.84	62.25	4.91	Peak	132	8
7	11020.00	42.95	54.00	-11.05	28.26	14.69	Average	100	163
8	11020.00	55.52	74.00	-18.48	40.83	14.69	Peak	100	163

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

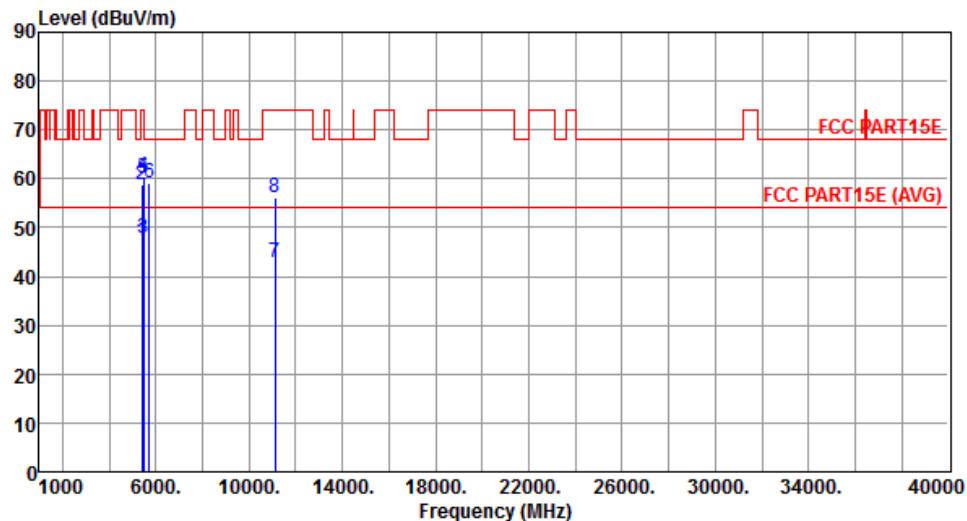
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5550
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	5390.00	47.41	54.00	-6.59	42.94	4.47	Average	120	351
2	5390.00	57.44	74.00	-16.56	52.97	4.47	Peak	120	351
3	5460.00	47.88	54.00	-6.12	43.37	4.51	Average	120	351
4	5460.00	58.77	74.00	-15.23	54.26	4.51	Peak	120	351
5	5470.00	59.11	68.20	-9.09	54.59	4.52	Peak	120	351
6	5725.00	60.57	68.20	-7.63	55.73	4.84	Peak	120	351
7	11100.00	42.84	54.00	-11.16	28.70	14.14	Average	100	159
8	11100.00	55.51	74.00	-18.49	41.37	14.14	Peak	100	159

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)	5550																																																																																										
Polarization	Vertical																																																																																												
Level (dBuV/m)  <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5390.00</td><td>47.05</td><td>54.00</td><td>-6.95</td><td>42.58</td><td>4.47</td><td>Average</td><td>212</td><td>5</td></tr><tr><td>2</td><td>5390.00</td><td>58.65</td><td>74.00</td><td>-15.35</td><td>54.18</td><td>4.47</td><td>Peak</td><td>212</td><td>5</td></tr><tr><td>3</td><td>5460.00</td><td>47.87</td><td>54.00</td><td>-6.13</td><td>43.36</td><td>4.51</td><td>Average</td><td>212</td><td>5</td></tr><tr><td>4</td><td>5460.00</td><td>60.48</td><td>74.00</td><td>-13.52</td><td>55.97</td><td>4.51</td><td>Peak</td><td>212</td><td>5</td></tr><tr><td>5</td><td>5470.00</td><td>60.01</td><td>68.20</td><td>-8.19</td><td>55.49</td><td>4.52</td><td>Peak</td><td>212</td><td>5</td></tr><tr><td>6</td><td>5725.00</td><td>58.98</td><td>68.20</td><td>-9.22</td><td>54.14</td><td>4.84</td><td>Peak</td><td>212</td><td>5</td></tr><tr><td>7</td><td>11100.00</td><td>42.94</td><td>54.00</td><td>-11.06</td><td>28.80</td><td>14.14</td><td>Average</td><td>100</td><td>178</td></tr><tr><td>8</td><td>11100.00</td><td>56.08</td><td>74.00</td><td>-17.92</td><td>41.94</td><td>14.14</td><td>Peak</td><td>100</td><td>178</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	5390.00	47.05	54.00	-6.95	42.58	4.47	Average	212	5	2	5390.00	58.65	74.00	-15.35	54.18	4.47	Peak	212	5	3	5460.00	47.87	54.00	-6.13	43.36	4.51	Average	212	5	4	5460.00	60.48	74.00	-13.52	55.97	4.51	Peak	212	5	5	5470.00	60.01	68.20	-8.19	55.49	4.52	Peak	212	5	6	5725.00	58.98	68.20	-9.22	54.14	4.84	Peak	212	5	7	11100.00	42.94	54.00	-11.06	28.80	14.14	Average	100	178	8	11100.00	56.08	74.00	-17.92	41.94	14.14	Peak	100	178
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																				
1	5390.00	47.05	54.00	-6.95	42.58	4.47	Average	212	5																																																																																				
2	5390.00	58.65	74.00	-15.35	54.18	4.47	Peak	212	5																																																																																				
3	5460.00	47.87	54.00	-6.13	43.36	4.51	Average	212	5																																																																																				
4	5460.00	60.48	74.00	-13.52	55.97	4.51	Peak	212	5																																																																																				
5	5470.00	60.01	68.20	-8.19	55.49	4.52	Peak	212	5																																																																																				
6	5725.00	58.98	68.20	-9.22	54.14	4.84	Peak	212	5																																																																																				
7	11100.00	42.94	54.00	-11.06	28.80	14.14	Average	100	178																																																																																				
8	11100.00	56.08	74.00	-17.92	41.94	14.14	Peak	100	178																																																																																				
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)			

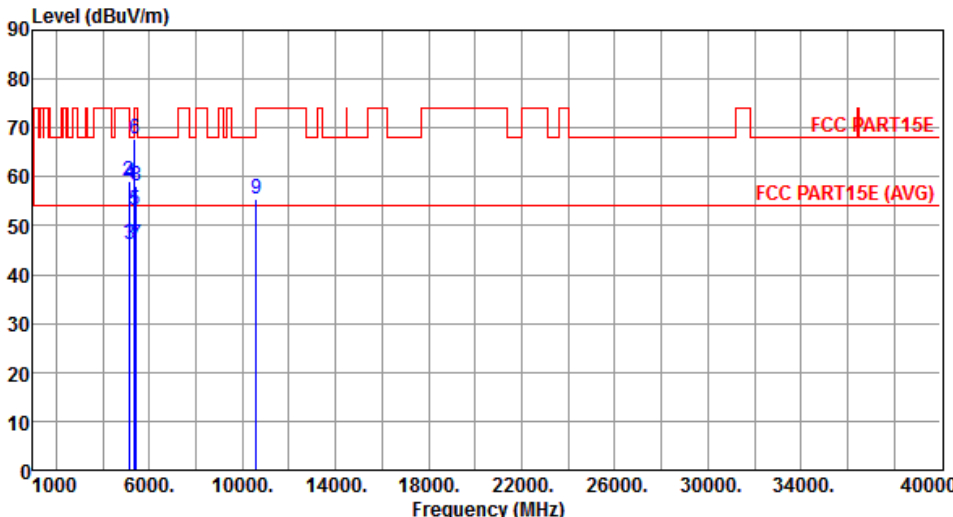
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal		
Level (dBUV/m)			

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical		
Level (dBuV/m)			

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

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		

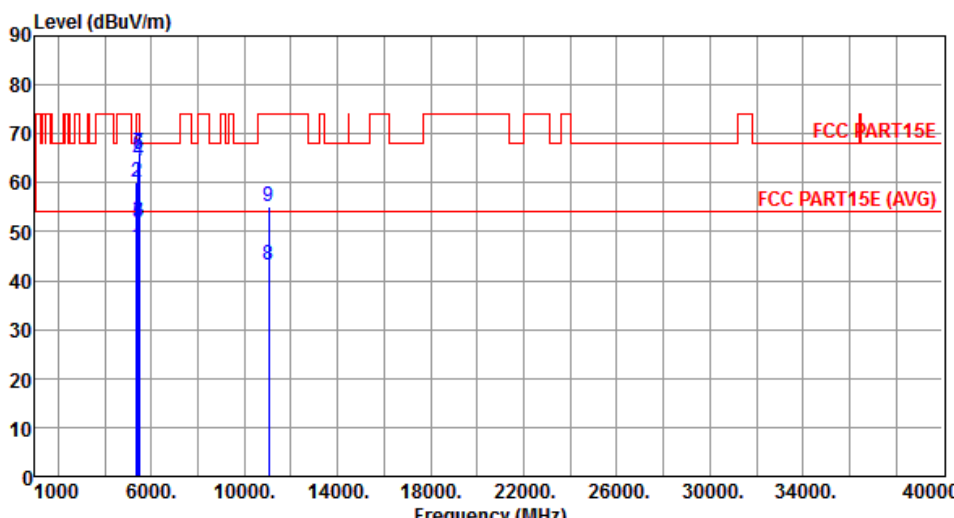


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5130.00	46.58	54.00	-7.42	42.12	4.46	Average	100	6
2	5130.00	59.11	74.00	-14.89	54.65	4.46	Peak	100	6
3	5150.00	46.17	54.00	-7.83	41.69	4.48	Average	100	6
4	5150.00	58.78	74.00	-15.22	54.30	4.48	Peak	100	6
5	5350.00	52.98	54.00	-1.02	48.24	4.74	Average	100	6
6	5350.00	67.84	74.00	-6.16	63.10	4.74	Peak	100	6
7	5450.00	46.14	54.00	-7.86	41.26	4.88	Average	100	6
8	5450.00	58.12	74.00	-15.88	53.24	4.88	Peak	100	6
9	10580.00	55.45	68.20	-12.75	41.35	14.10	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).

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		
Level (dBuV/m) <			

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
		dBuV/m			dBuV			cm	deg
1	5370.00	46.95	54.00	-7.05	42.18	4.77	Average	100	357
2	5370.00	60.22	74.00	-13.78	55.45	4.77	Peak	100	357
3	5450.00	52.17	54.00	-1.83	47.29	4.88	Average	100	357
4	5450.00	64.58	74.00	-9.42	59.70	4.88	Peak	100	357
5	5460.00	51.84	54.00	-2.16	46.95	4.89	Average	100	357
6	5460.00	65.69	74.00	-8.31	60.80	4.89	Peak	100	357
7	5470.00	65.95	68.20	-2.25	61.04	4.91	Peak	100	357
8	11060.00	43.31	54.00	-10.69	28.61	14.70	Average	100	237
9	11060.00	55.08	74.00	-18.92	40.38	14.70	Peak	100	237

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		

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	5370.00	47.22	54.00	-6.78	42.45	4.77	Average	269	12
2	5370.00	58.98	74.00	-15.02	54.21	4.77	Peak	269	12
3	5450.00	51.61	54.00	-2.39	46.73	4.88	Average	269	12
4	5450.00	67.34	74.00	-6.66	62.46	4.88	Peak	269	12
5	5460.00	52.95	54.00	-1.05	48.06	4.89	Average	269	12
6	5460.00	65.46	74.00	-8.54	60.57	4.89	Peak	269	12
7	5470.00	66.60	68.20	-1.60	61.69	4.91	Peak	269	12
8	11060.00	44.19	54.00	-9.81	29.49	14.70	Average	100	141
9	11060.00	56.27	74.00	-17.73	41.57	14.70	Peak	100	141

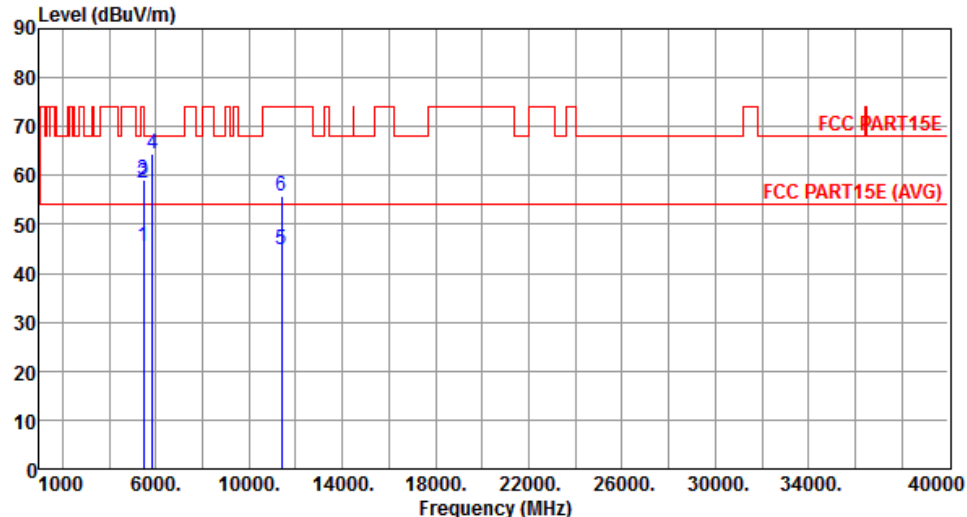
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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		



The graph shows the emission level in dBuV/m across a frequency range from 1000 to 40000 MHz. The y-axis ranges from 0 to 90 dBuV/m. A red line represents the emission level, which is mostly below the 74 dBuV/m FCC PART15E limit. Two specific points are highlighted with blue vertical lines and labeled 1 through 6. Point 1 is at 5460 MHz (45.49 dBuV/m), Point 2 is at 5460 MHz (58.59 dBuV/m), Point 3 is at 5470 MHz (58.99 dBuV/m), Point 4 is at 5850 MHz (64.50 dBuV/m), Point 5 is at 11380 MHz (44.95 dBuV/m), and Point 6 is at 11380 MHz (55.74 dBuV/m). The FCC PART15E (AVG) limit is shown as a horizontal red line at 54 dBuV/m.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.49	54.00	-8.51	40.60	4.89	Average	272	1
2	5460.00	58.59	74.00	-15.41	53.70	4.89	Peak	272	1
3	5470.00	58.99	68.20	-9.21	54.08	4.91	Peak	272	1
4	5850.00	64.50	68.20	-3.70	58.98	5.52	Peak	272	1
5	11380.00	44.95	54.00	-9.05	30.16	14.79	Average	100	143
6	11380.00	55.74	74.00	-18.26	40.95	14.79	Peak	100	143

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

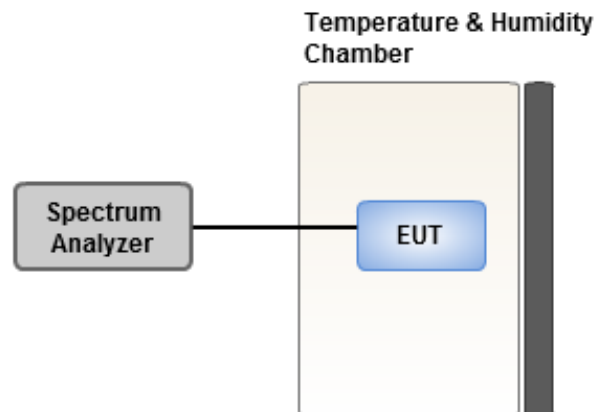
3.6.1 Limit of Frequency Stability

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	5.60	5.64	5.53	6.05
T20°C Vmin	4.56	5.00	4.72	4.72
T50°C Vnom	4.14	4.76	3.95	4.71
T40°C Vnom	4.29	4.40	4.75	4.98
T30°C Vnom	2.39	2.33	2.15	2.59
T20°C Vnom	3.32	2.91	3.35	3.26
T10°C Vnom	2.83	2.54	3.21	3.59
T0°C Vnom	3.89	3.76	4.48	3.98
T-10°C Vnom	3.01	3.04	3.45	3.18
T-20°C Vnom	1.58	1.87	1.76	1.63
T-30°C Vnom	1.45	1.19	1.70	1.44
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

Tel: 886-2-2601-1640

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

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan 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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