FCC Test Report

FCC ID	:	**XU8TEW817DTR**
Equipment	:	**AC750 Wireless Travel Router**
Model No.	:	**TEW-817DTR**
Brand Name	:	**TRENDnet**
Applicant	:	**TRENDnet, Inc.**
Address	:	**20675 Manhattan Place, Torrance, CA 90501, USA**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Sep. 04, 2014**
Tested Date	:	**Sep. 06 ~ Sep. 10, 2014**

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.

Approved & Reviewed by:

Gary Chang / Manager

Testing Laboratory
2732

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Release Record

Report No.	Version	Description	Issued Date
FR4N1401AN	Rev. 01	Initial issue	Mar. 06, 2015
FR4N1401AN	Rev. 02	Removed model of antenna. (Page 5)	Mar. 27, 2015

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.527MHz 42.72(Margin -3.28dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5150.00MHz 53.00 (Margin -1.00dB) - 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]: 5150-5250MHz: 20.12 5725-5850MHz: 20.25	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**
5150-5250	a	5180-5240	36-48 [4]	1	6-54 Mbps
5150-5250	n (HT20)	5180-5240	36-48 [4]	1	MCS 0-7
5150-5250	n (HT40)	5190-5230	38-46 [2]	1	MCS 0-7
5150-5250	ac (VHT20)	5180-5240	36-48 [4]	1	MCS 0-8
5150-5250	ac (VHT40)	5190-5230	38-46 [2]	1	MCS 0-9
5150-5250	ac (VHT80)	5210	42 [1]	1	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.					

RF General Information					
Frequency Range (MHz)	**IEEE Std. 802.11**	**Ch. Freq. (MHz)**	**Channel Number**	**Transmit Chains (N_{TX})**	**Data Rate / MCS**
5725-5850	a	5745-5825	149-165 [5]	1	6-54 Mbps
5725-5850	n (HT20)	5745-5825	149-165 [5]	1	MCS 0-7
5725-5850	n (HT40)	5755-5795	151-159 [2]	1	MCS 0-7
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	1	MCS 0-8
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	1	MCS 0-9
5725-5850	ac (VHT80)	5775	155 [1]	1	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.					

1.1.2 Antenna Details

Ant. No.	**Type**	**Connector**	**Operating Frequencies (MHz) / Antenna Gain (dBi)**				
			2400~2483.5	**5150~5250**	**5250~5350**	**5470~5725**	**5725~5850**
1	PIFA	N/A	2	3	3	3	3

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	100-240Vac

1.1.4 Accessories

N/A

1.1.5 Channel List

For Frequency band 5150-5250 MHz			
802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	VHT 80	
48	5240	42	5210

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

1.1.6 Test Tool and Duty Cycle

Test Tool	MT7620, V1.0.6.0		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	99.32%	0.03
	VHT20	99.28%	0.03
	VHT40	98.00%	0.09
	VHT80	94.93%	0.23

1.1.7 Power Setting

For Frequency band 5150-5250 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Set**
11a	5180	1A
11a	5200	1D
11a	5240	19
HT20	5180	1A
HT20	5200	1D
HT20	5240	17
HT40	5190	11
HT40	5230	18
VHT20	5180	1A
VHT20	5200	1D
VHT20	5240	17
VHT40	5190	11
VHT40	5230	18
VHT80	5210	0C

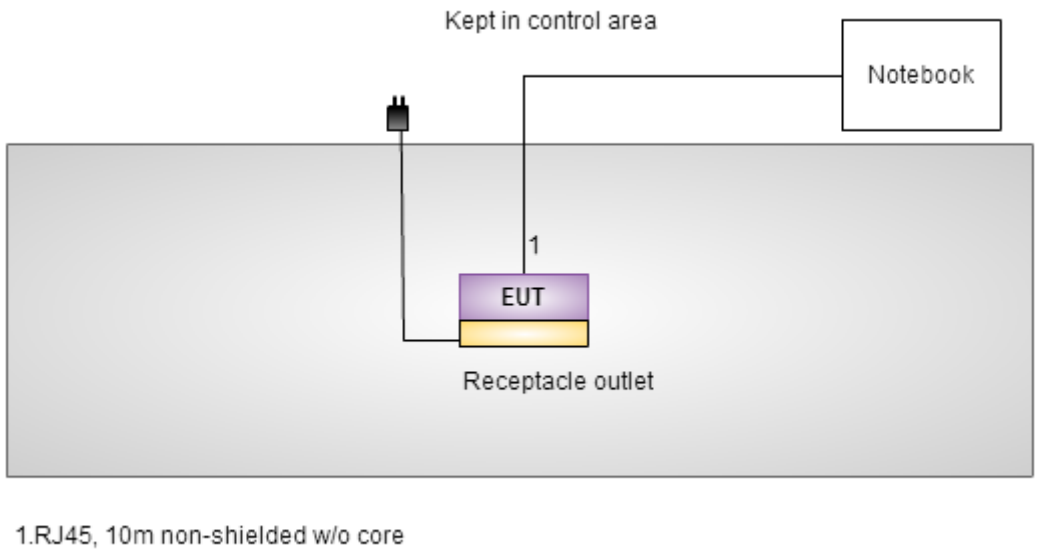
For Frequency band 5725~5850 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Set**
11a	5745	17
11a	5785	20
11a	5825	1D
HT20	5745	16
HT20	5785	20
HT20	5825	1D
HT40	5755	13
HT40	5795	1E
VHT20	5745	16
VHT20	5785	20
VHT20	5825	1D
VHT40	5755	13
VHT40	5795	1E
VHT80	5775	0F

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**S/N**	**Signal cable / Length (m)**
1	Notebook	DELL	Latitude E6440	3NXMD12	RJ45, 10m non-shielded w/o core

1.3 Test Setup Chart

Test Setup Diagram



1.RJ45, 10m non-shielded w/o core

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
EMC Receiver	R&S	ESCS 30	100169	Oct. 15, 2013	Oct. 14, 2014
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 23, 2014	Apr. 22, 2015
50 ohm terminal (Support Unit)	NA	50	04	Apr. 18, 2014	Apr. 17, 2015
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Jan. 25, 2014	Jan. 24, 2015
Receiver	R&S	ESR3	101658	Jan. 10, 2014	Jan. 09, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jan. 03, 2014	Jan. 02, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 13, 2014	Feb. 12, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014
Amplifier	Burgeon	BPA-530	100219	Nov. 22, 2013	Nov. 21, 2014
Preamplifier	Agilent	83017A	MY39501308	Dec. 16, 2013	Dec. 15, 2014
Preamplifier	EMC	EMC184045B	980192	Aug. 26, 2014	Aug. 25, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 16, 2013	Dec. 15, 2014
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 16, 2013	Dec. 15, 2014
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 16, 2013	Dec. 15, 2014
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Note: Calibration Interval of instruments listed above is two year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2014	Feb. 16, 2015
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 11, 2013	Dec. 10, 2014
Power Meter	Anritsu	ML2495A	1241002	Oct. 24, 2013	Oct. 23, 2014
Power Sensor	Anritsu	MA2411B	1027366	Oct. 24, 2013	Oct. 23, 2014
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 C63.10-2009
FCC 789033 D02 General UNII Test Procedures New Rules v01
FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
FCC KDB 412172 D01 Determining ERP and EIRP v01

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
Temperature	±0.6 °C
Conducted emission	±2.670 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.26 dB
Radiated emission > 1GHz	±4.94 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	20°C / 65%	Peter Lin
Radiated Emissions	03CH01-WS	21-22°C / 61%	Aska Huang
RF Conducted	TH01-WS	23°C / 64%	Brad Wu

- FCC site registration No.: 657002
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

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

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.

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

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.

3 Transmitter Test Results

3.1 Conducted Emissions

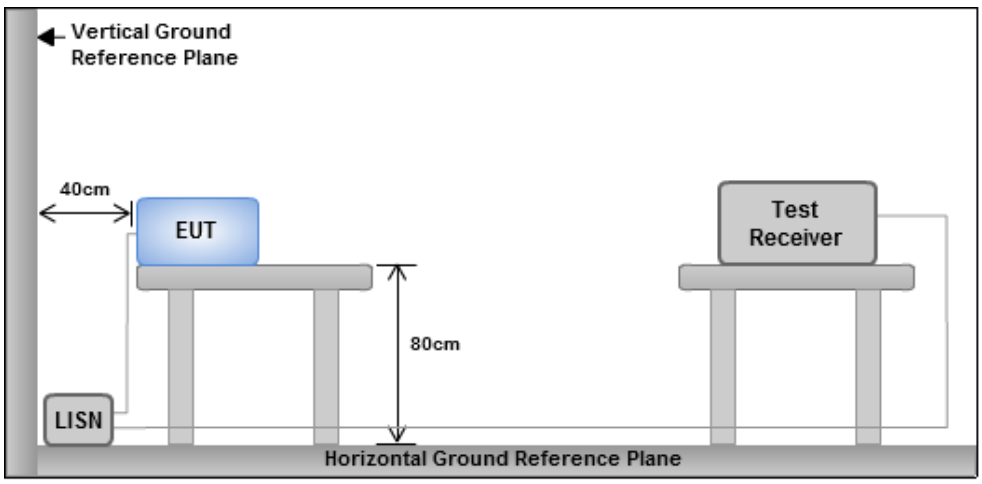
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Test Procedures

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

3.1.3 Test Setup

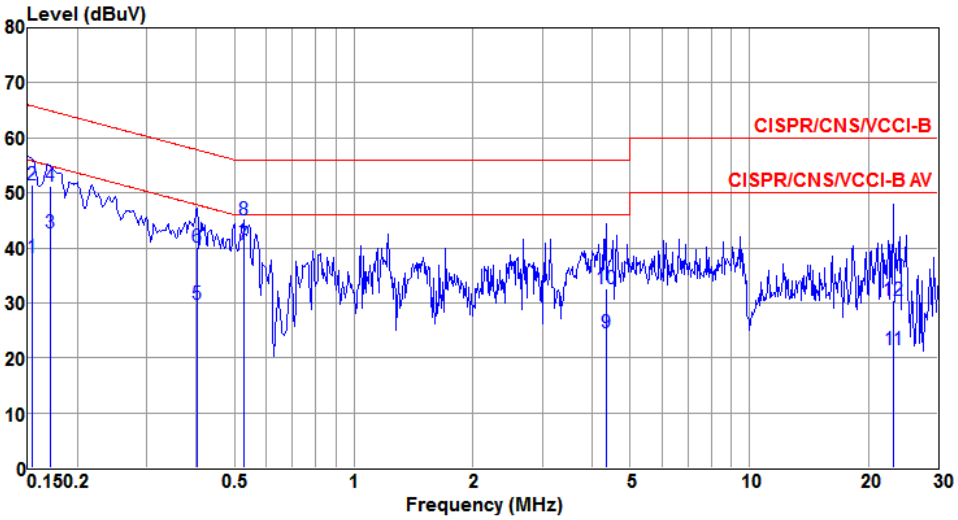


Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

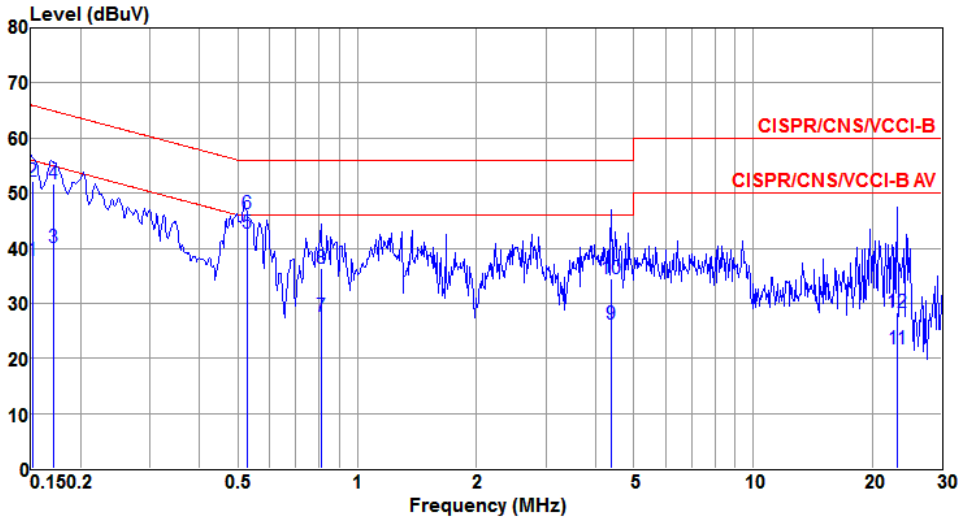
Modulation	11a	Test Freq. (MHz)	5200
Power Phase	Line		



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.154	38.30	55.80	-17.50	38.20	0.08	0.02	Average
2	0.154	51.54	65.80	-14.26	51.44	0.08	0.02	QP
3	0.171	42.80	54.90	-12.10	42.69	0.09	0.02	Average
4	0.171	51.22	64.90	-13.68	51.11	0.09	0.02	QP
5	0.402	29.73	47.81	-18.08	29.50	0.21	0.02	Average
6	0.402	40.12	57.81	-17.69	39.89	0.21	0.02	QP
7*	0.526	40.69	46.00	-5.31	40.40	0.27	0.02	Average
8	0.526	44.99	56.00	-11.01	44.70	0.27	0.02	QP
9	4.338	24.54	46.00	-21.46	23.59	0.79	0.16	Average
10	4.338	32.61	56.00	-23.39	31.66	0.79	0.16	QP
11	23.140	21.57	50.00	-28.43	18.91	2.23	0.43	Average
12	23.140	30.45	60.00	-29.55	27.79	2.23	0.43	QP

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

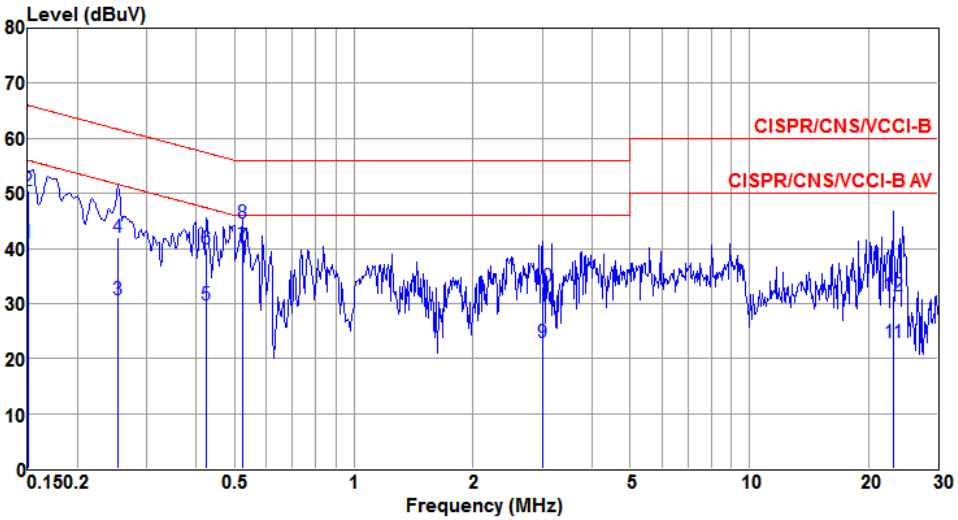
Modulation	11a	Test Freq. (MHz)	5200
Power Phase	Neutral		



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.151	37.82	55.93	-18.11	37.72	0.08	0.02	Average
2	0.151	52.16	65.93	-13.77	52.06	0.08	0.02	QP
3	0.171	40.03	54.90	-14.87	39.93	0.08	0.02	Average
4	0.171	51.63	64.90	-13.27	51.53	0.08	0.02	QP
5*	0.527	42.72	46.00	-3.28	42.57	0.13	0.02	Average
6	0.527	46.28	56.00	-9.72	46.13	0.13	0.02	QP
7	0.809	27.62	46.00	-18.38	27.45	0.15	0.02	Average
8	0.809	36.24	56.00	-19.76	36.07	0.15	0.02	QP
9	4.384	26.21	46.00	-19.79	25.87	0.18	0.16	Average
10	4.384	34.38	56.00	-21.62	34.04	0.18	0.16	QP
11	23.140	21.69	50.00	-28.31	19.74	1.52	0.43	Average
12	23.140	28.42	60.00	-31.58	26.47	1.52	0.43	QP

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

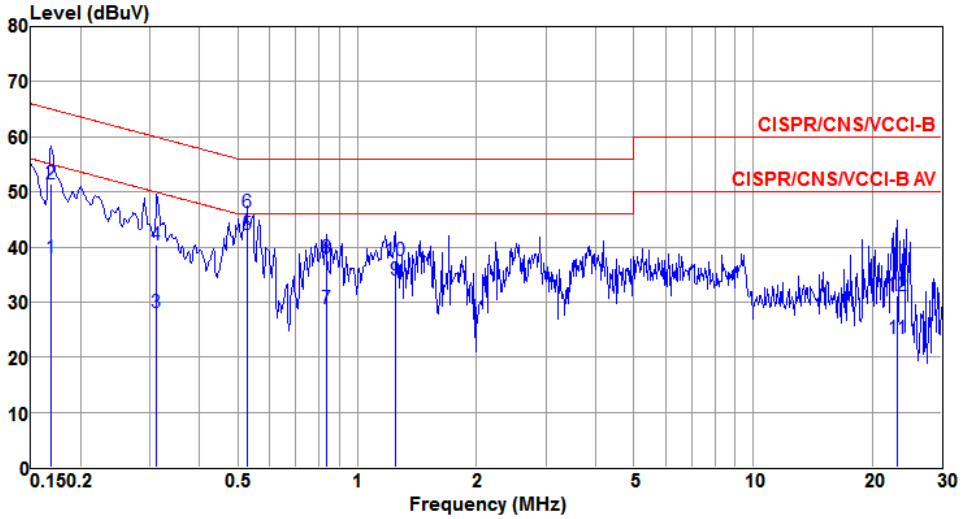
Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Line		



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	41.01	56.00	-14.99	40.91	0.08	0.02	Average
2	0.150	50.50	66.00	-15.50	50.40	0.08	0.02	QP
3	0.253	30.78	51.64	-20.86	30.63	0.14	0.01	Average
4	0.253	42.07	61.64	-19.57	41.92	0.14	0.01	QP
5	0.424	29.74	47.37	-17.63	29.50	0.22	0.02	Average
6	0.424	39.87	57.37	-17.50	39.63	0.22	0.02	QP
7*	0.525	40.41	46.00	-5.59	40.12	0.27	0.02	Average
8	0.525	44.52	56.00	-11.48	44.23	0.27	0.02	QP
9	3.009	22.87	46.00	-23.13	22.06	0.71	0.10	Average
10	3.009	33.01	56.00	-22.99	32.20	0.71	0.10	QP
11	23.140	22.96	50.00	-27.04	20.30	2.23	0.43	Average
12	23.140	31.39	60.00	-28.61	28.73	2.23	0.43	QP

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

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



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.169	38.01	55.03	-17.02	37.91	0.08	0.02	Average
2	0.169	51.44	65.03	-13.59	51.34	0.08	0.02	QP
3	0.312	28.01	49.93	-21.92	27.89	0.10	0.02	Average
4	0.312	40.48	59.93	-19.45	40.36	0.10	0.02	QP
5*	0.526	42.23	46.00	-3.77	42.08	0.13	0.02	Average
6	0.526	46.28	56.00	-9.72	46.13	0.13	0.02	QP
7	0.835	28.88	46.00	-17.12	28.71	0.15	0.02	Average
8	0.835	38.03	56.00	-17.97	37.86	0.15	0.02	QP
9	1.249	33.96	46.00	-12.04	33.80	0.14	0.02	Average
10	1.249	37.62	56.00	-18.38	37.46	0.14	0.02	QP
11	23.140	23.40	50.00	-26.60	21.45	1.52	0.43	Average
12	23.140	31.09	60.00	-28.91	29.14	1.52	0.43	QP

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

3.2 Emission Bandwidth

3.2.1 Limit of Emission bandwidth

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

3.2.2 Test Procedures

26dB Bandwidth

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

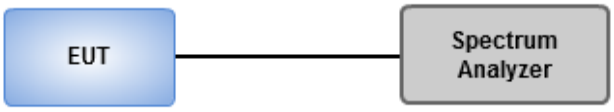
Occupied Bandwidth

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

6dB Bandwidth

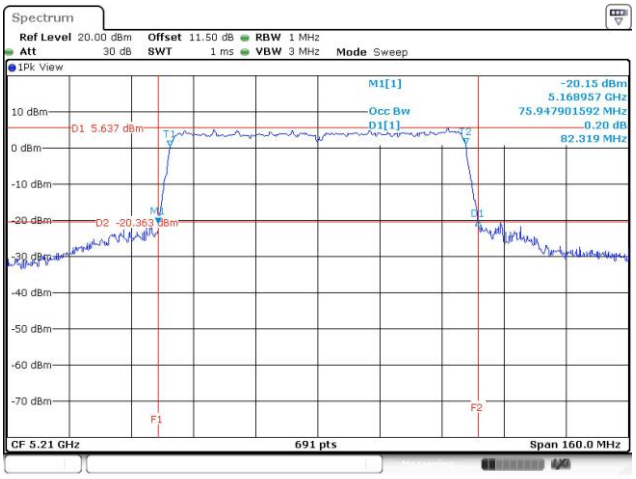
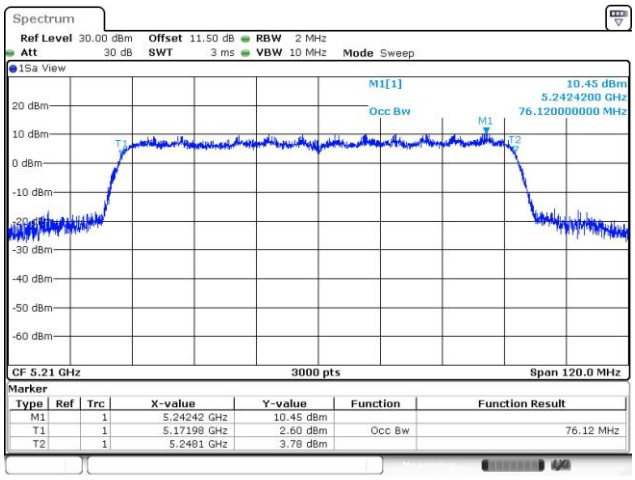
1. Set RBW = 100kHz, VBW = 300kHz
2. Detector = Peak,Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

3.2.3 Test Setup

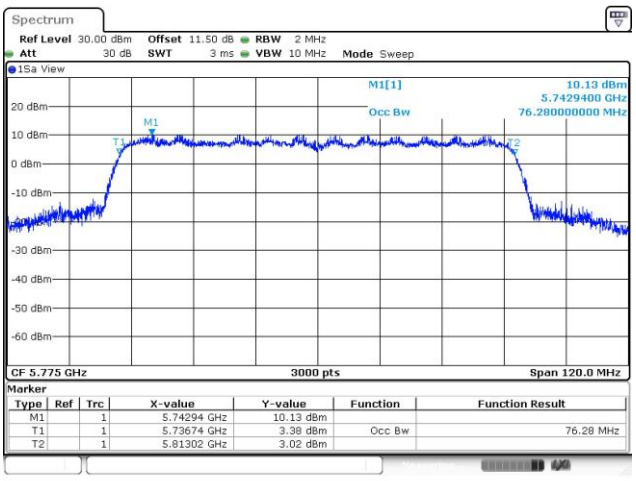
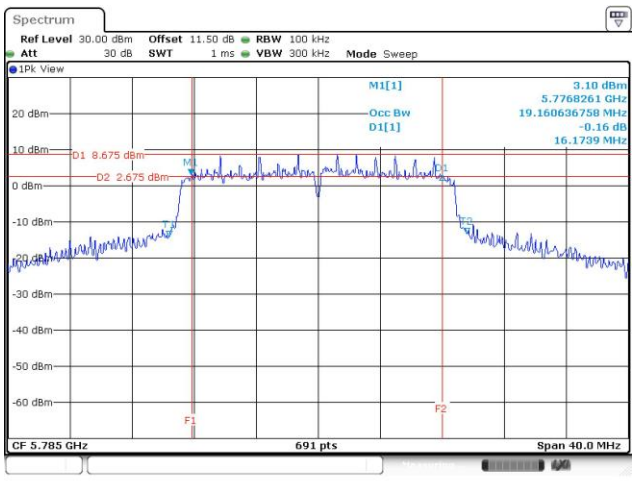


3.2.4 Test Result of Emission Bandwidth

For Frequency band 5150-5250 MHz										
Emission Bandwidth										
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
11a	1	5180	36.52	---	---	---	17.42	---	---	---
11a	1	5200	41.09	---	---	---	20.18	---	---	---
11a	1	5240	37.90	---	---	---	17.88	---	---	---
VHT20	1	5180	41.88	---	---	---	18.21	---	---	---
VHT20	1	5200	44.57	---	---	---	21.15	---	---	---
VHT20	1	5240	39.42	---	---	---	18.12	---	---	---
VHT40	1	5190	52.52	---	---	---	36.42	---	---	---
VHT40	1	5230	81.16	---	---	---	37.20	---	---	---
VHT80	1	5210	82.32	---	---	---	76.12	---	---	---

Worst Plots of 26dB Bandwidth	Worst Plots of 99% Bandwidth
	

For Frequency band 5725-5850 MHz											
Emission Bandwidth											
Mode	N_{TX}	Freq. (MHz)	OBW Bandwidth (MHz)				6dB Bandwidth (MHz)				
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	6dB BW Limit (MHz)
11a	1	5745	16.99	---	---	---	16.29	---	---	---	0.5
11a	1	5785	20.93	---	---	---	16.29	---	---	---	0.5
11a	1	5825	17.92	---	---	---	16.29	---	---	---	0.5
VHT20	1	5745	17.72	---	---	---	17.04	---	---	---	0.5
VHT20	1	5785	21.51	---	---	---	16.17	---	---	---	0.5
VHT20	1	5825	18.76	---	---	---	16.52	---	---	---	0.5
VHT40	1	5755	36.46	---	---	---	35.83	---	---	---	0.5
VHT40	1	5795	38.08	---	---	---	35.94	---	---	---	0.5
VHT80	1	5775	76.28	---	---	---	75.13	---	---	---	0.5

Worst Plots of 99% Bandwidth	Worst Plots of 6dB Bandwidth
	

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
☐	Mobile and portable 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

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

☒ Measurements may 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

For Frequency band 5150-5250 MHz									
Mode	N_{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5180	19.06	---	---	---	80.538	19.06	30.00
11a	1	5200	20.12	---	---	---	102.802	**20.12**	30.00
11a	1	5240	19.31	---	---	---	85.310	19.31	30.00
HT20	1	5180	18.76	---	---	---	75.162	18.76	30.00
HT20	1	5200	19.95	---	---	---	98.855	19.95	30.00
HT20	1	5240	18.42	---	---	---	69.502	18.42	30.00
HT40	1	5190	15.52	---	---	---	35.645	15.52	30.00
HT40	1	5230	18.61	---	---	---	72.611	18.61	30.00
VHT20	1	5180	18.89	---	---	---	77.446	18.89	30.00
VHT20	1	5200	20.08	---	---	---	101.859	20.08	30.00
VHT20	1	5240	18.54	---	---	---	71.450	18.54	30.00
VHT40	1	5190	15.69	---	---	---	37.068	15.69	30.00
VHT40	1	5230	18.79	---	---	---	75.683	18.79	30.00
VHT80	1	5210	13.94	---	---	---	24.774	13.94	30.00

For Frequency band 5725-5850 MHz									
Mode	N_{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5745	17.72	---	---	---	59.156	17.72	30.00
11a	1	5785	20.25	---	---	---	105.925	**20.25**	30.00
11a	1	5825	18.96	---	---	---	78.705	18.96	30.00
HT20	1	5745	17.16	---	---	---	52.000	17.16	30.00
HT20	1	5785	20.11	---	---	---	102.565	20.11	30.00
HT20	1	5825	18.75	---	---	---	74.989	18.75	30.00
HT40	1	5755	15.72	---	---	---	37.325	15.72	30.00
HT40	1	5795	19.31	---	---	---	85.310	19.31	30.00
VHT20	1	5745	17.25	---	---	---	53.088	17.25	30.00
VHT20	1	5785	20.24	---	---	---	105.682	20.24	30.00
VHT20	1	5825	18.91	---	---	---	77.804	18.91	30.00
VHT40	1	5755	15.86	---	---	---	38.548	15.86	30.00
VHT40	1	5795	19.47	---	---	---	88.512	19.47	30.00
VHT80	1	5775	14.22	---	---	---	18.721	12.72	30.00

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
☐	Mobile and portable 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 5150 ~ 5250 MHz

☒ Method SA-1 (For 11a / 11ac VHT 20 / 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 11ac VHT80)

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

For 5725 ~ 5850 MHz

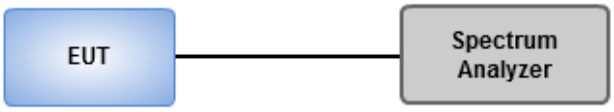
☒ Method SA-1 (For 11a / 11ac VHT20 / VHT40)

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

☒ Method SA-2 Alternative (For 11ac VHT80)

1. Set RBW = 500 kHz, VBW = 2 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (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

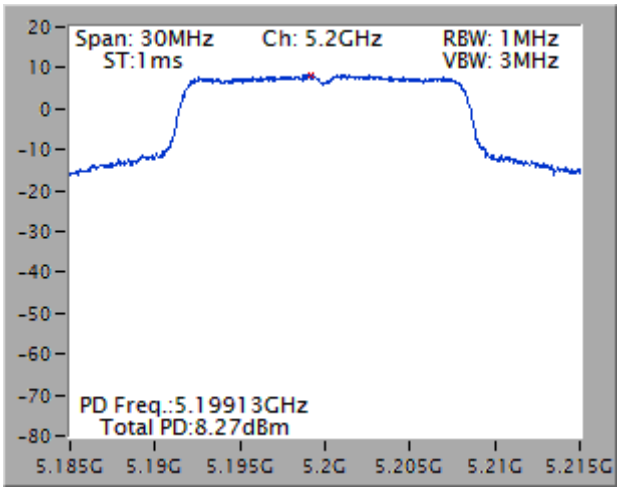


3.4.4 Test Result of Peak Power Spectral Density

For Frequency band 5150-5250 MHz						
Condition			Peak Power Spectral Density (dBm)			
Modulation Mode	N_{TX}	Freq. (MHz)	PPSD w/o D.F (dBm)	Duty Factor (dB)	PPSD with D.F (dBm)	PPSD Limit (dBm)
11a	1	5180	7.22	0.00	7.22	17
11a	1	5200	8.27	0.00	8.27	17
11a	1	5240	7.07	0.00	7.07	17
VHT20	1	5180	7.00	0.00	7.00	17
VHT20	1	5200	8.02	0.00	8.02	17
VHT20	1	5240	6.94	0.00	6.94	17
VHT40	1	5190	0.34	0.00	0.34	17
VHT40	1	5230	3.27	0.00	3.27	17
VHT80	1	5210	-4.75	0.23	-4.52	17

Note:
1. D.F is duty factor.

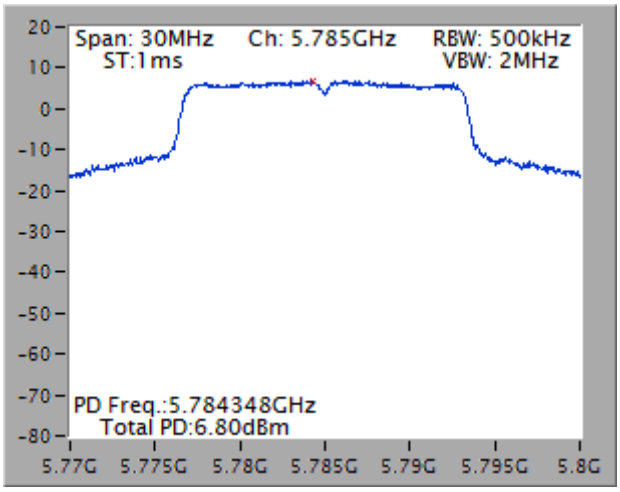
Worst Plots



For Frequency band 5725-5850 MHz						
Condition			Peak Power Spectral Density (dBm)			
Modulation Mode	N_{TX}	Freq. (MHz)	PPSD w/o D.F (dBm)	Duty Factor (dB)	PPSD with D.F (dBm)	PPSD Limit (dBm)
11a	1	5745	4.31	0.00	4.31	30.00
11a	1	5785	6.80	0.00	6.80	30.00
11a	1	5825	5.44	0.00	5.44	30.00
VHT20	1	5745	3.48	0.00	3.48	30.00
VHT20	1	5785	6.51	0.00	6.51	30.00
VHT20	1	5825	5.20	0.00	5.20	30.00
VHT40	1	5755	-1.22	0.00	-1.22	30.00
VHT40	1	5795	2.87	0.00	2.87	30.00
VHT80	1	5775	-5.79	0.23	-5.56	30.00

Note:
1. D.F is duty factor.

Worst Plots



3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.825 GHz	5.715 5.725 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] 5.85 5.86 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] Other un-restricted band: 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

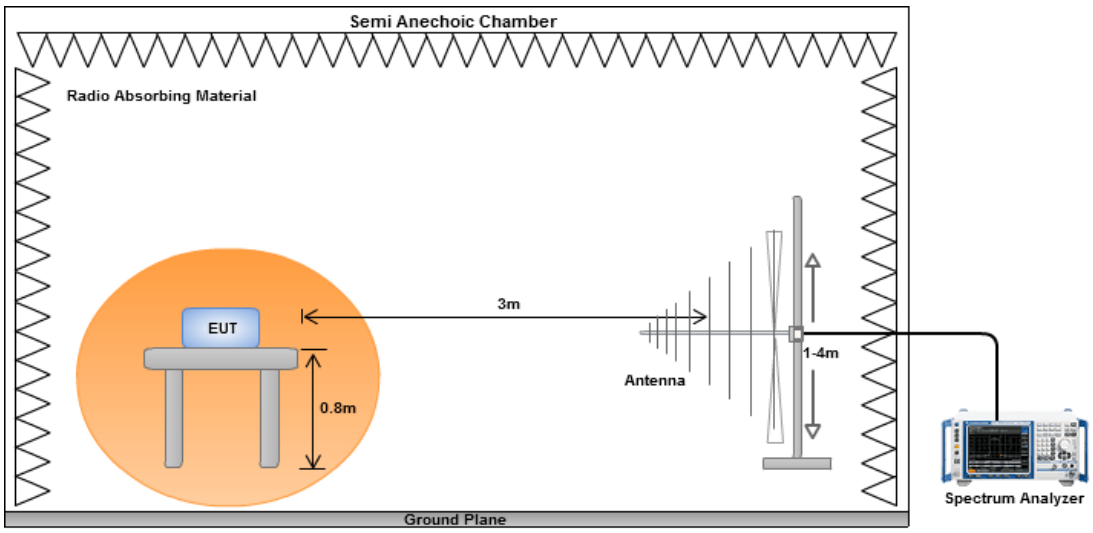
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
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:

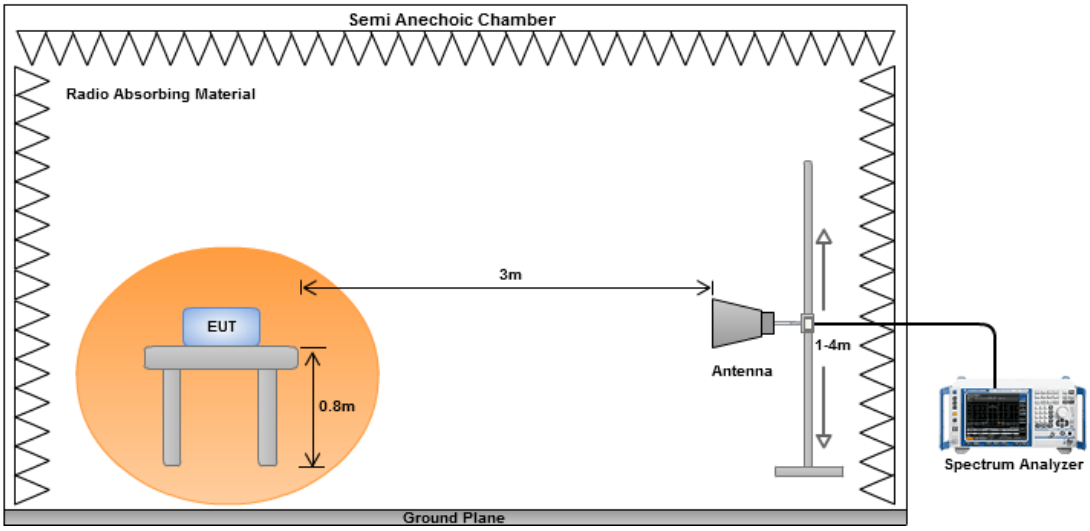
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz

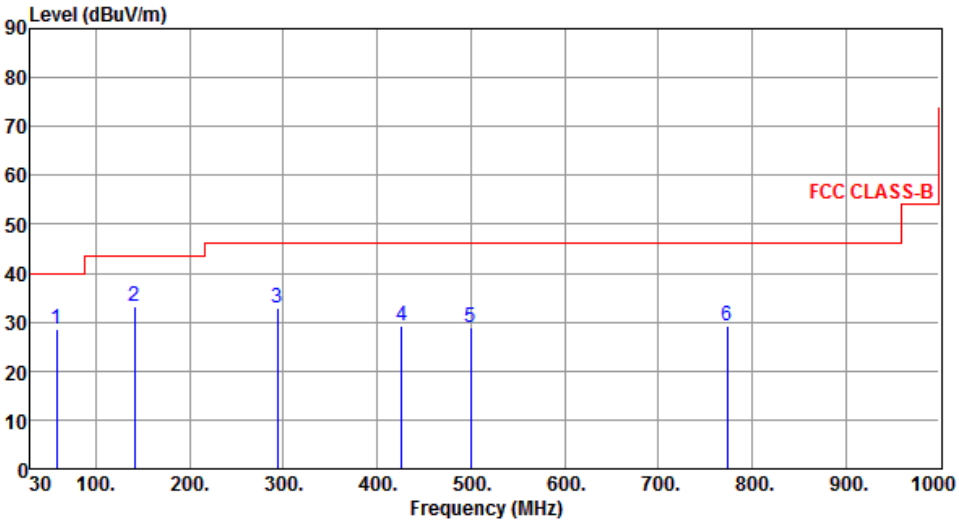


Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

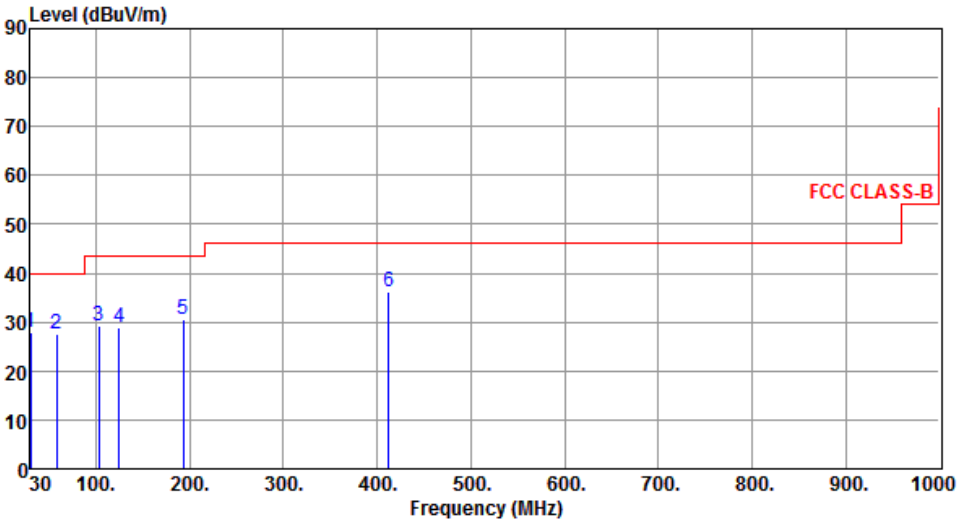
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	57.62	28.67	40.00	-11.33	45.67	-17.00	Peak	---	---
2	141.35	33.24	43.50	-10.26	50.45	-17.21	Peak	---	---
3	293.64	32.95	46.00	-13.05	49.30	-16.35	Peak	---	---
4	426.48	29.16	46.00	-16.84	42.20	-13.04	Peak	---	---
5	500.20	28.97	46.00	-17.03	40.52	-11.55	Peak	---	---
6	773.26	29.22	46.00	-16.78	36.24	-7.02	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

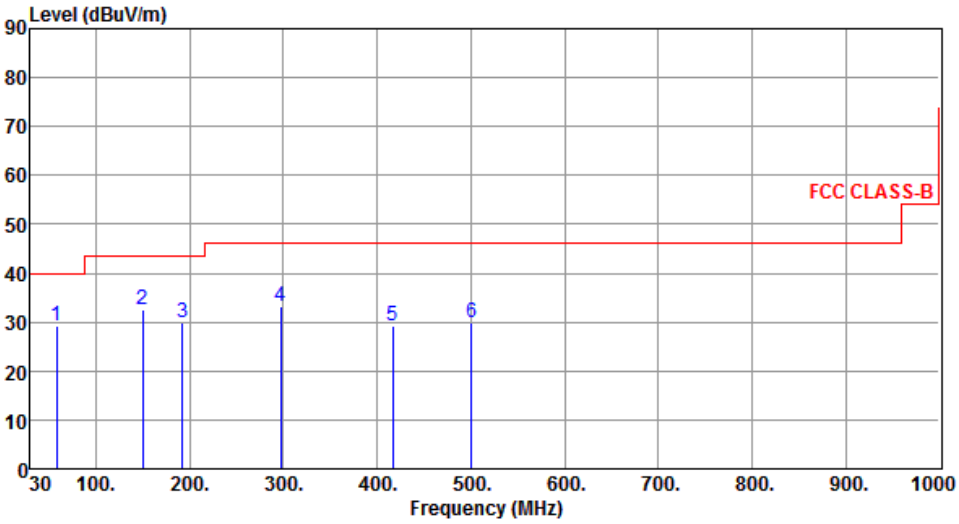
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.49	27.76	40.00	-12.24	45.45	-17.69	Peak	---	---
2	57.63	27.51	40.00	-12.49	44.51	-17.00	Peak	---	---
3	103.38	29.27	43.50	-14.23	50.54	-21.27	Peak	---	---
4	125.12	28.74	43.50	-14.76	47.45	-18.71	Peak	---	---
5	193.38	30.41	43.50	-13.09	50.02	-19.61	Peak	---	---
6	412.24	36.31	46.00	-9.69	49.68	-13.37	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

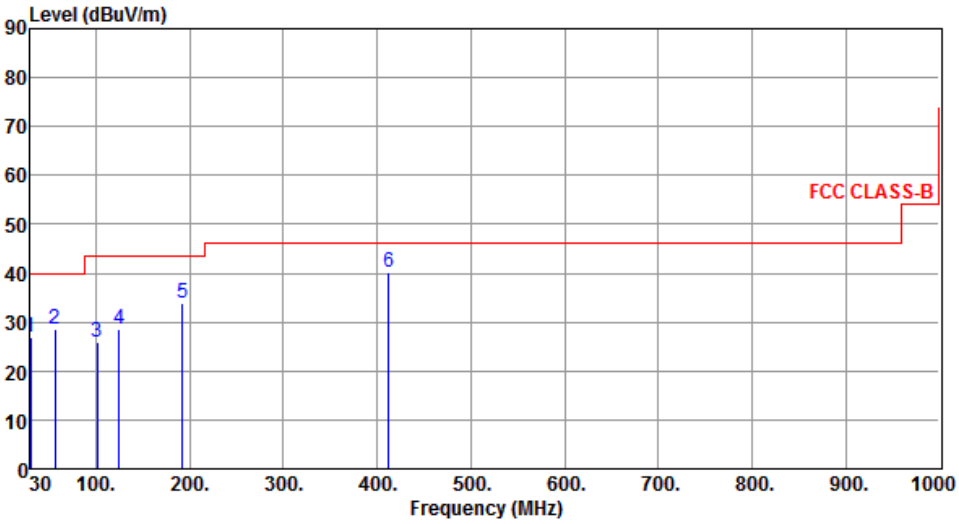
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	57.68	29.32	40.00	-10.68	46.33	-17.01	Peak	---	---
2	149.53	32.59	43.50	-10.91	49.42	-16.83	Peak	---	---
3	192.44	29.93	43.50	-13.57	49.53	-19.60	Peak	---	---
4	296.76	33.27	46.00	-12.73	49.53	-16.26	Peak	---	---
5	416.43	29.21	46.00	-16.79	42.49	-13.28	Peak	---	---
6	500.65	29.90	46.00	-16.10	41.44	-11.54	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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

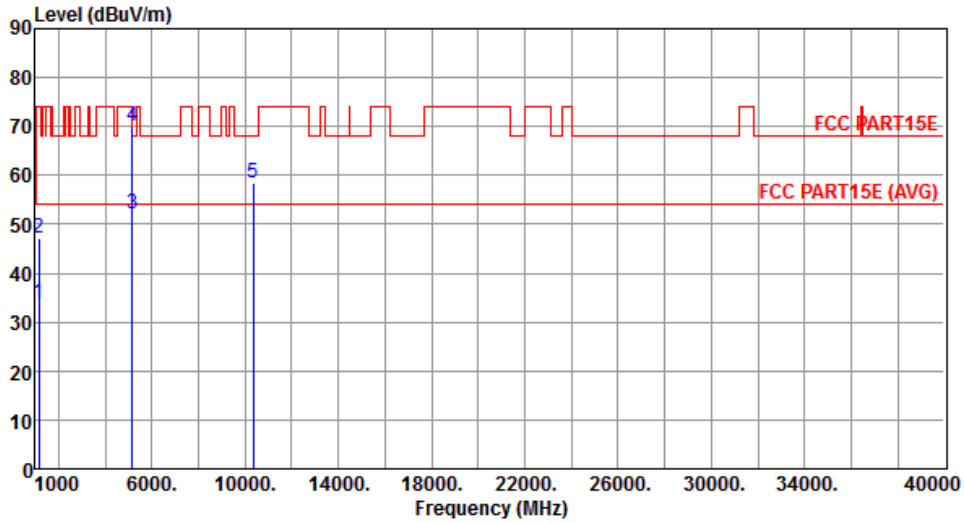


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.48	26.86	40.00	-13.14	44.55	-17.69	Peak	---	---
2	56.75	28.50	40.00	-11.50	45.45	-16.95	Peak	---	---
3	101.48	25.85	43.50	-17.65	47.44	-21.59	Peak	---	---
4	125.06	28.71	43.50	-14.79	47.43	-18.72	Peak	---	---
5	192.63	33.77	43.50	-9.73	53.38	-19.61	Peak	---	---
6	412.28	40.26	46.00	-5.74	53.62	-13.36	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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

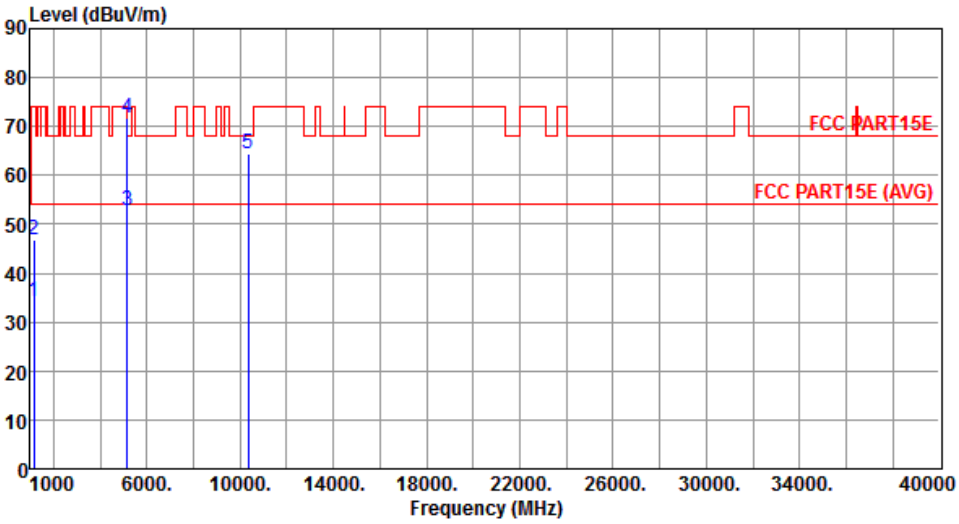
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.02	54.00	-19.98	43.30	-9.28	Average	---	---
2	1160.00	46.99	74.00	-27.01	56.27	-9.28	Peak	---	---
3	5150.00	52.19	54.00	-1.81	46.63	5.56	Average	---	---
4	5150.00	70.18	74.00	-3.82	64.62	5.56	Peak	---	---
5	10360.00	58.38	68.20	-9.82	43.31	15.07	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).

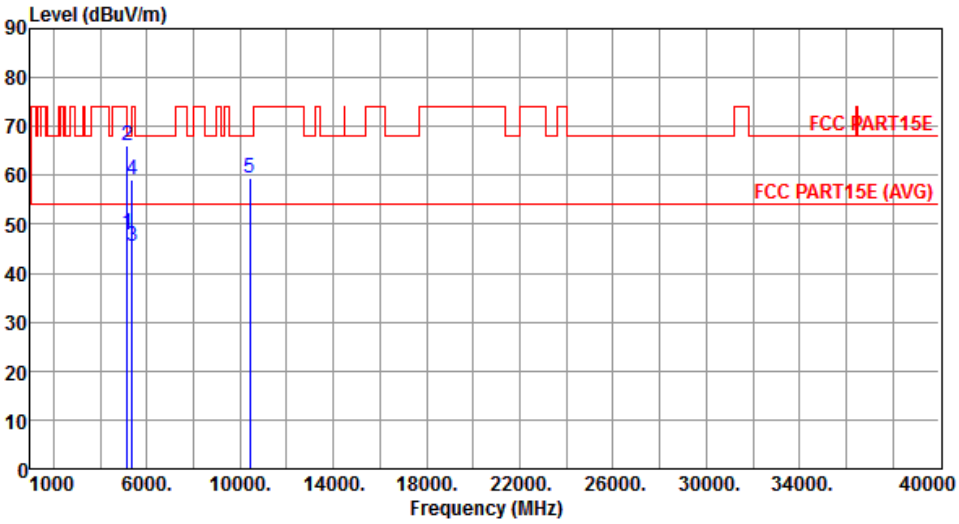
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.23	54.00	-19.77	43.51	-9.28	Average	---	---
2	1160.00	46.95	74.00	-27.05	56.23	-9.28	Peak	---	---
3	5150.00	52.96	54.00	-1.04	47.40	5.56	Average	---	---
4	5150.00	71.87	74.00	-2.13	66.31	5.56	Peak	---	---
5	10360.00	64.32	68.20	-3.88	49.25	15.07	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).

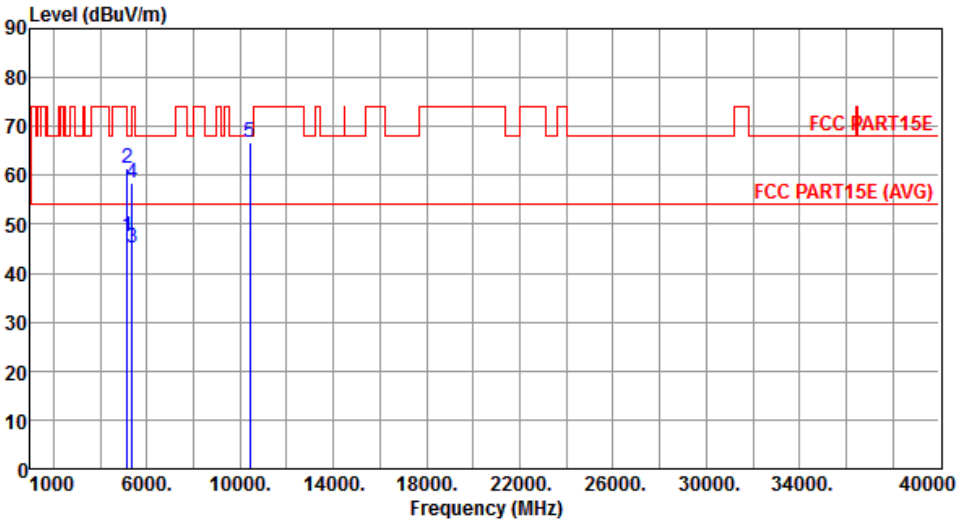
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.24	54.00	-5.76	42.68	5.56	Average	---	---
2	5150.00	66.09	74.00	-7.91	60.53	5.56	Peak	---	---
3	5350.00	45.33	54.00	-8.67	39.62	5.71	Average	---	---
4	5350.00	59.02	74.00	-14.98	53.31	5.71	Peak	---	---
5	10400.00	59.34	68.20	-8.86	44.21	15.13	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).

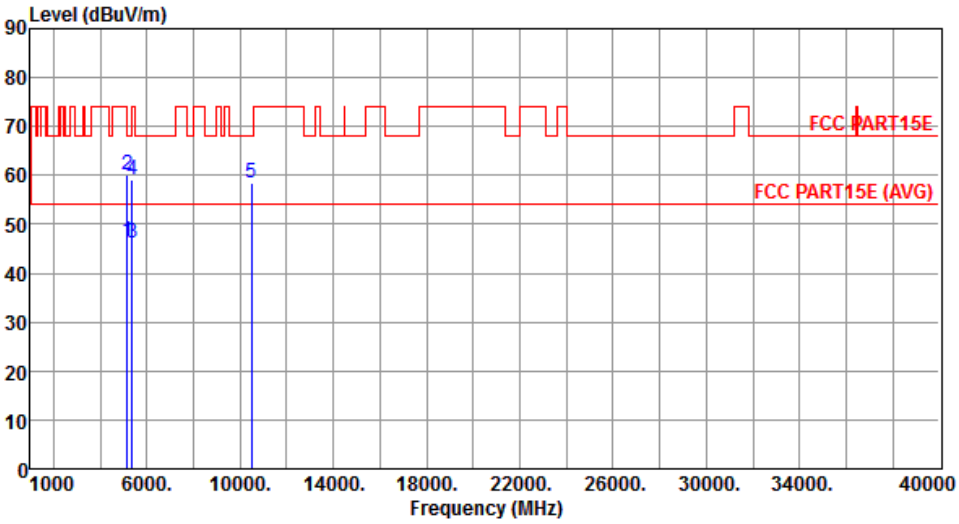
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.41	54.00	-6.59	41.85	5.56	Average	---	---
2	5150.00	61.28	74.00	-12.72	55.72	5.56	Peak	---	---
3	5350.00	45.14	54.00	-8.86	39.43	5.71	Average	---	---
4	5350.00	58.36	74.00	-15.64	52.65	5.71	Peak	---	---
5	10400.00	66.75	68.20	-1.45	51.62	15.13	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).

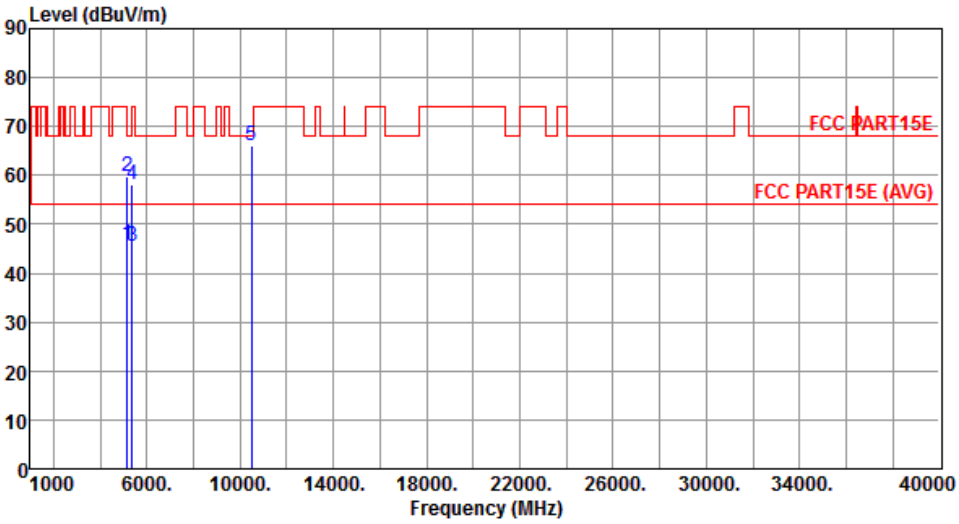
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.41	54.00	-7.59	40.85	5.56	Average	---	---
2	5150.00	60.10	74.00	-13.90	54.54	5.56	Peak	---	---
3	5350.00	46.15	54.00	-7.85	40.44	5.71	Average	---	---
4	5350.00	59.02	74.00	-14.98	53.31	5.71	Peak	---	---
5	10480.00	58.58	68.20	-9.62	43.34	15.24	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).

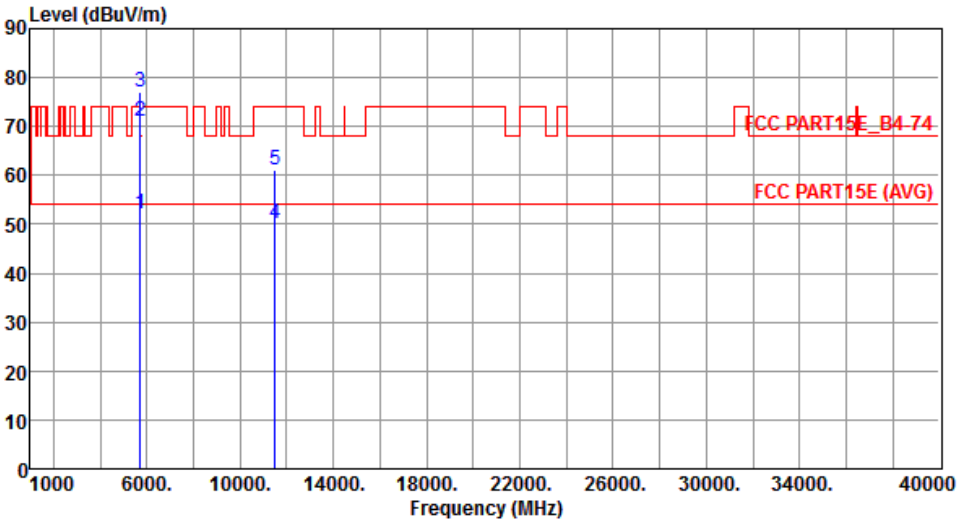
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.84	54.00	-8.16	40.28	5.56	Average	---	---
2	5150.00	59.77	74.00	-14.23	54.21	5.56	Peak	---	---
3	5350.00	45.55	54.00	-8.45	39.84	5.71	Average	---	---
4	5350.00	58.00	74.00	-16.00	52.29	5.71	Peak	---	---
5	10480.00	66.08	68.20	-2.12	50.84	15.24	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).

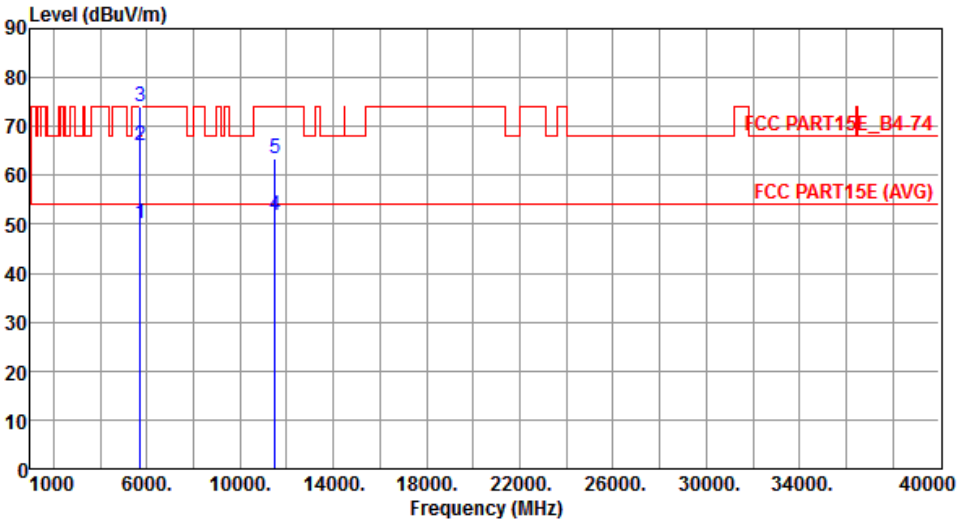
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	52.20	54.00	-1.80	46.62	5.58	Average	---	---
2	5715.00	71.02	74.00	-2.98	65.44	5.58	Peak	---	---
3	5725.00	77.00	78.20	-1.20	71.42	5.58	Peak	---	---
4	11490.00	50.02	54.00	-3.98	35.45	14.57	Average	---	---
5	11490.00	61.10	74.00	-12.90	46.53	14.57	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).

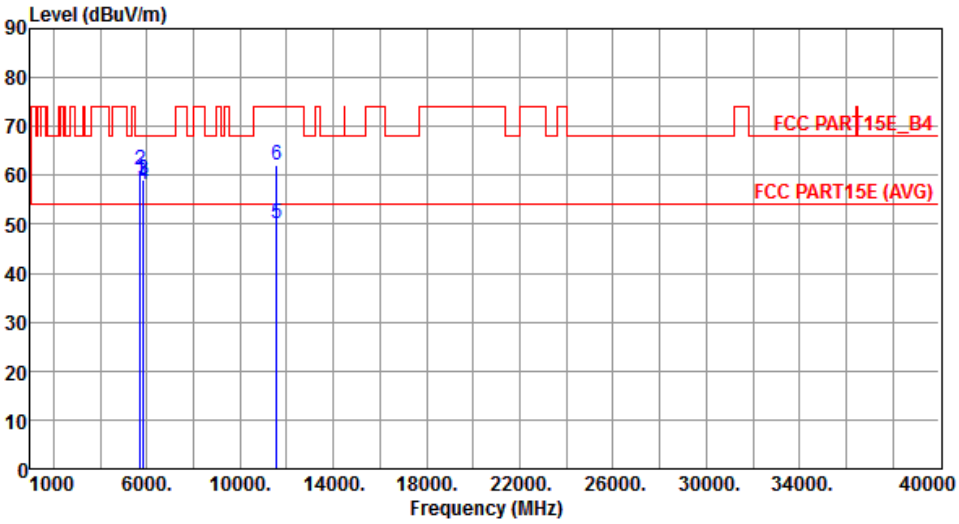
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	50.21	54.00	-3.79	44.63	5.58	Average	---	---
2	5715.00	66.16	74.00	-7.84	60.58	5.58	Peak	---	---
3	5725.00	74.01	78.20	-4.19	68.43	5.58	Peak	---	---
4	11490.00	51.73	54.00	-2.27	37.16	14.57	Average	---	---
5	11490.00	63.51	74.00	-10.49	48.94	14.57	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).

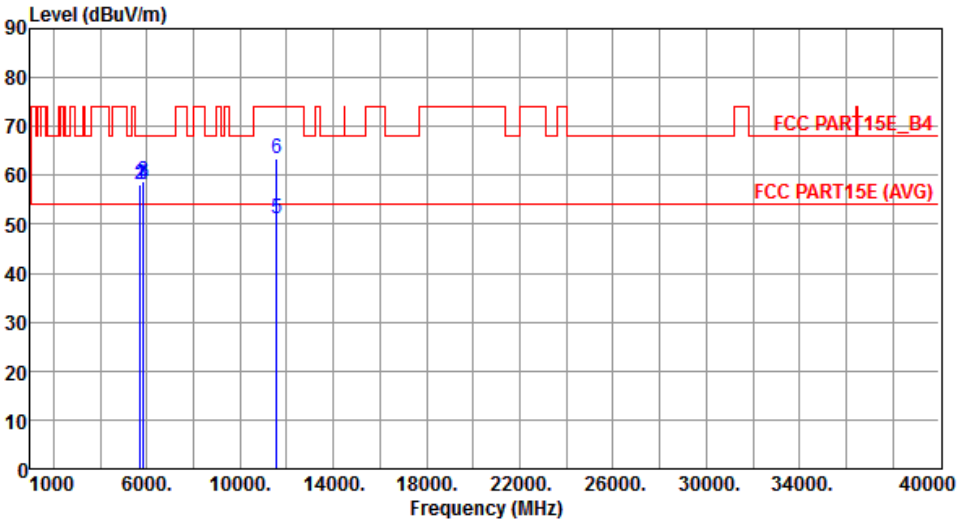
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	59.10	68.20	-9.10	53.52	5.58	Peak	---	---
2	5725.00	61.06	78.20	-17.14	55.48	5.58	Peak	---	---
3	5850.00	59.26	78.20	-18.94	53.64	5.62	Peak	---	---
4	5860.00	58.10	68.20	-10.10	52.48	5.62	Peak	---	---
5	11570.00	50.16	54.00	-3.84	35.67	14.49	Average	---	---
6	11570.00	62.01	74.00	-11.99	47.52	14.49	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).

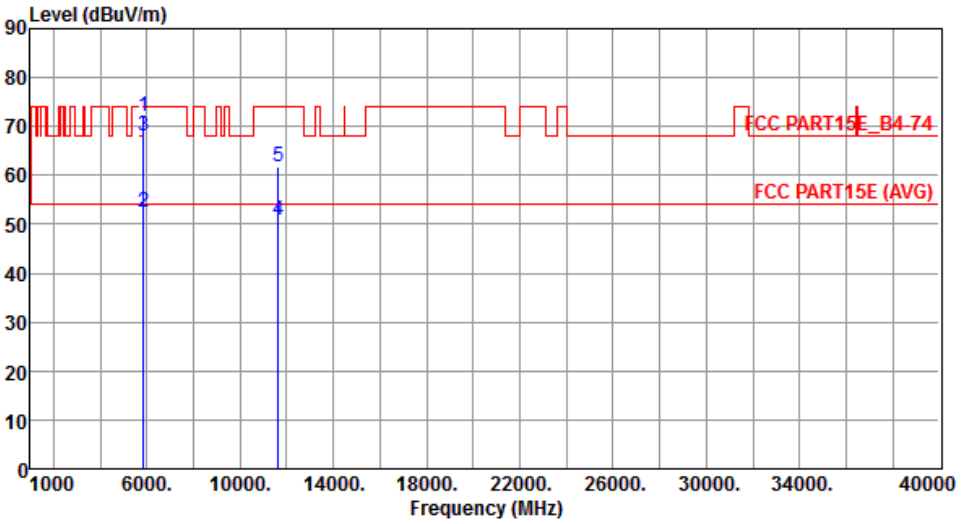
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	58.02	68.20	-10.18	52.44	5.58	Peak	---	---
2	5725.00	58.26	78.20	-19.94	52.68	5.58	Peak	---	---
3	5850.00	58.93	78.20	-19.27	53.31	5.62	Peak	---	---
4	5860.00	58.07	68.20	-10.13	52.45	5.62	Peak	---	---
5	11570.00	51.21	54.00	-2.79	36.72	14.49	Average	---	---
6	11570.00	63.44	74.00	-10.56	48.95	14.49	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).

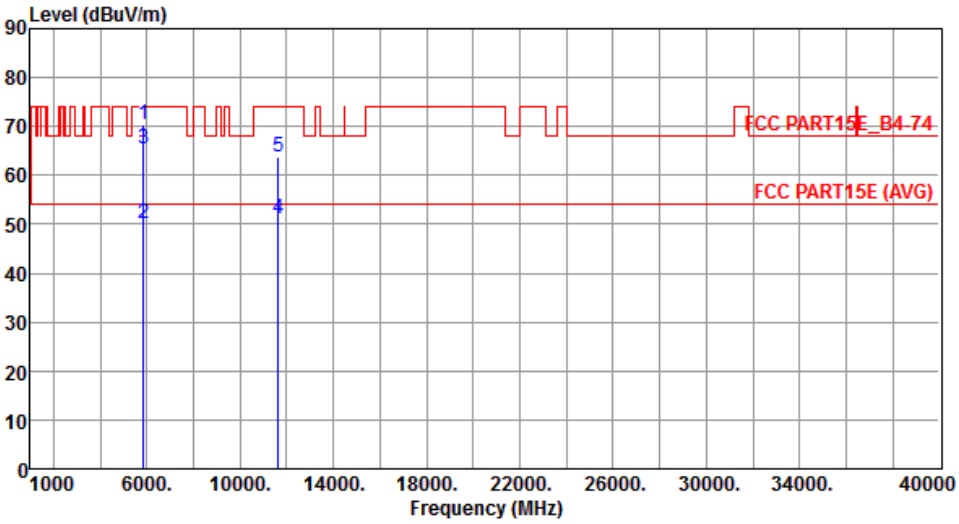
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	72.13	78.20	-6.07	66.51	5.62	Peak	---	---
2	5860.00	52.38	54.00	-1.62	46.76	5.62	Average	---	---
3	5860.00	68.01	74.00	-5.99	62.39	5.62	Peak	---	---
4	11650.00	50.83	54.00	-3.17	36.44	14.39	Average	---	---
5	11650.00	61.92	74.00	-12.08	47.53	14.39	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).

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

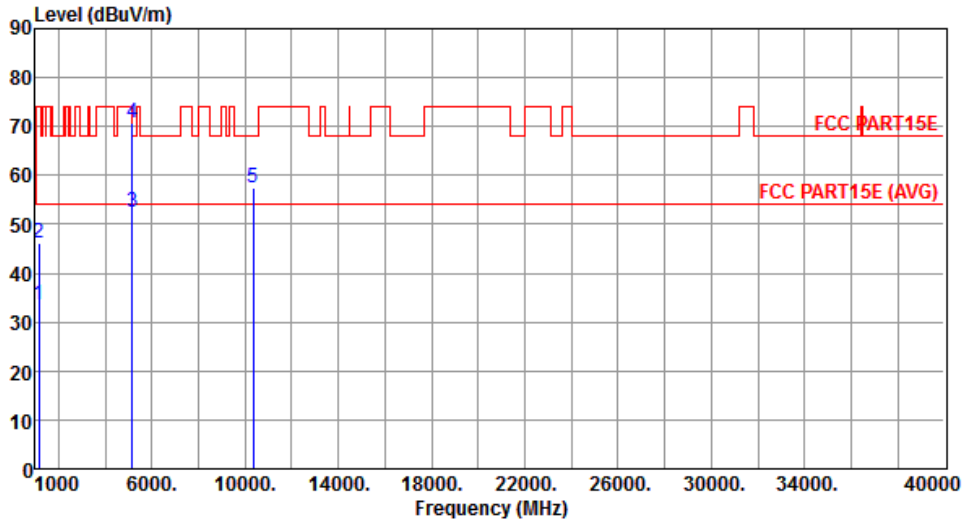


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	70.30	78.20	-7.90	64.68	5.62	Peak	---	---
2	5860.00	50.15	54.00	-3.85	44.53	5.62	Average	---	---
3	5860.00	65.31	74.00	-8.69	59.69	5.62	Peak	---	---
4	11650.00	51.12	54.00	-2.88	36.73	14.39	Average	---	---
5	11650.00	63.66	74.00	-10.34	49.27	14.39	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).

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

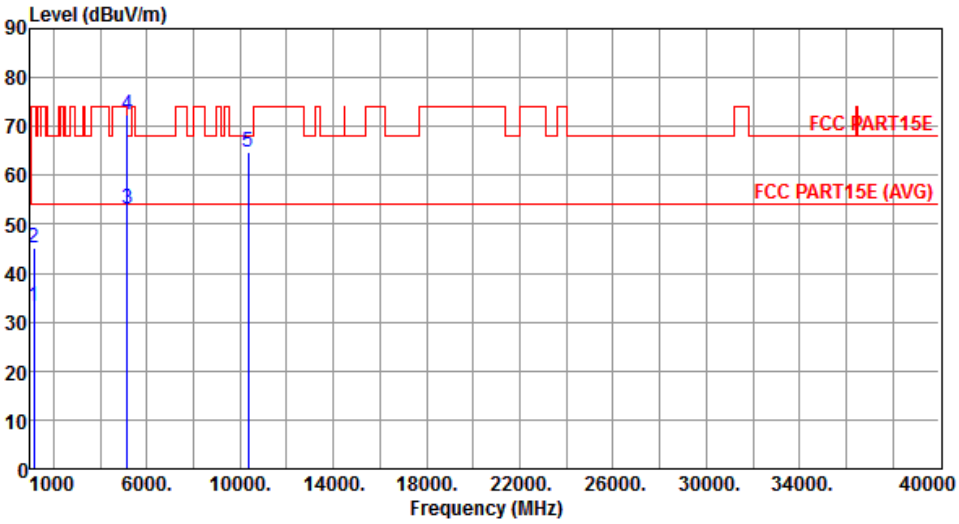
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	33.39	54.00	-20.61	42.67	-9.28	Average	---	---
2	1160.00	46.18	74.00	-27.82	55.46	-9.28	Peak	---	---
3	5150.00	52.41	54.00	-1.59	46.85	5.56	Average	---	---
4	5150.00	70.69	74.00	-3.31	65.13	5.56	Peak	---	---
5	10360.00	57.51	68.20	-10.69	42.44	15.07	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).

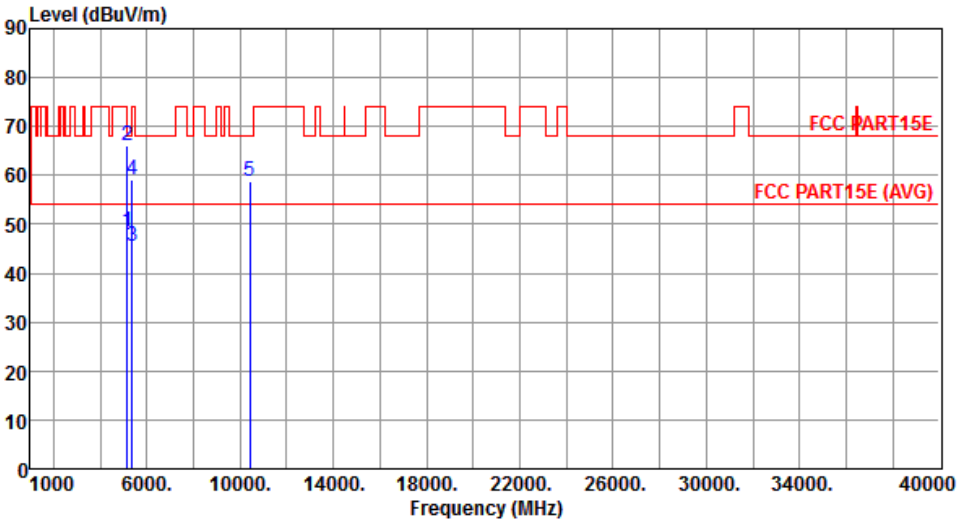
Modulation	VHT20	**Test Freq. (MHz)**	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	33.37	54.00	-20.63	42.65	-9.28	Average	---	---
2	1160.00	45.29	74.00	-28.71	54.57	-9.28	Peak	---	---
3	5150.00	52.98	54.00	-1.02	47.42	5.56	Average	---	---
4	5150.00	72.39	74.00	-1.61	66.83	5.56	Peak	---	---
5	10360.00	64.61	68.20	-3.59	49.54	15.07	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).

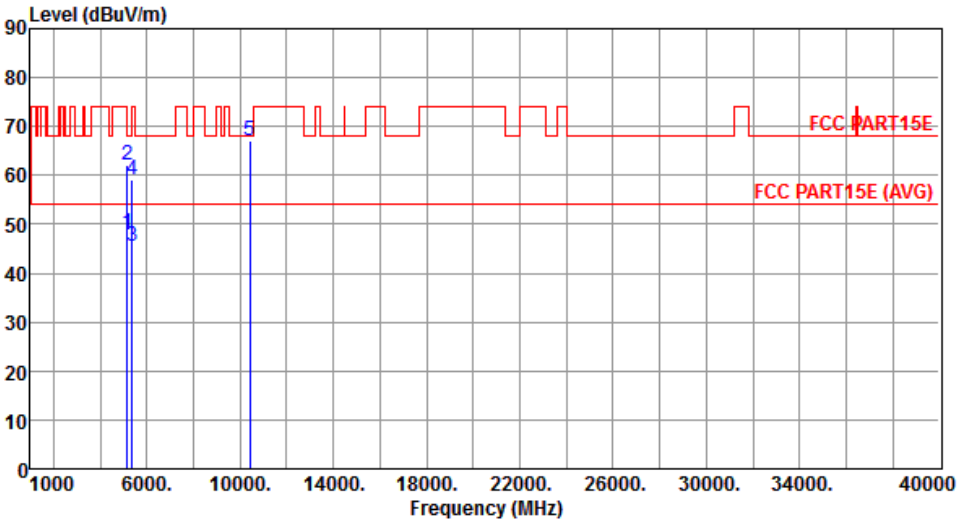
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.39	54.00	-5.61	42.83	5.56	Average	---	---
2	5150.00	66.09	74.00	-7.91	60.53	5.56	Peak	---	---
3	5350.00	45.37	54.00	-8.63	39.66	5.71	Average	---	---
4	5350.00	59.19	74.00	-14.81	53.48	5.71	Peak	---	---
5	10400.00	58.79	68.20	-9.41	43.66	15.13	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).

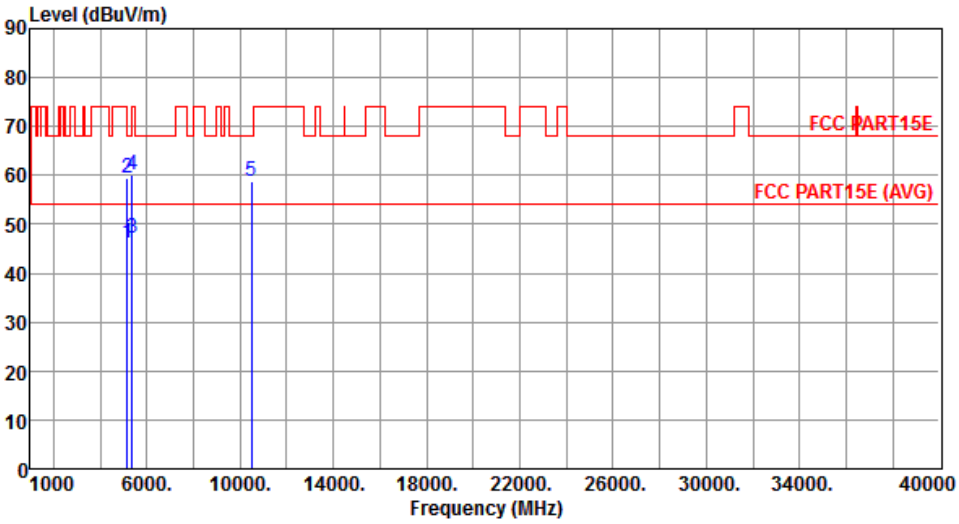
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.20	54.00	-5.80	42.64	5.56	Average	---	---
2	5150.00	62.14	74.00	-11.86	56.58	5.56	Peak	---	---
3	5350.00	45.43	54.00	-8.57	39.72	5.71	Average	---	---
4	5350.00	59.26	74.00	-14.74	53.55	5.71	Peak	---	---
5	10400.00	67.16	68.20	-1.04	52.03	15.13	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).

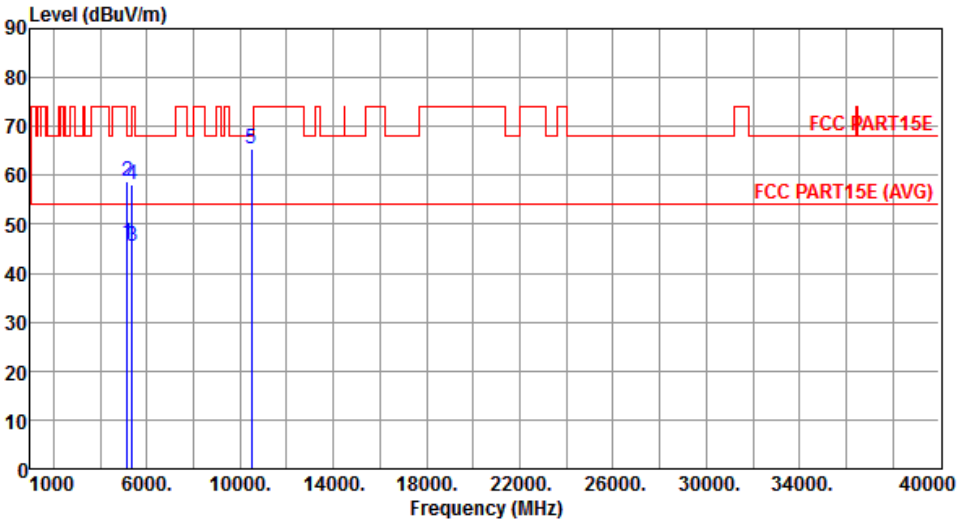
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.04	54.00	-7.96	40.48	5.56	Average	---	---
2	5150.00	59.31	74.00	-14.69	53.75	5.56	Peak	---	---
3	5350.00	47.15	54.00	-6.85	41.44	5.71	Average	---	---
4	5350.00	60.23	74.00	-13.77	54.52	5.71	Peak	---	---
5	10480.00	58.78	68.20	-9.42	43.54	15.24	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).

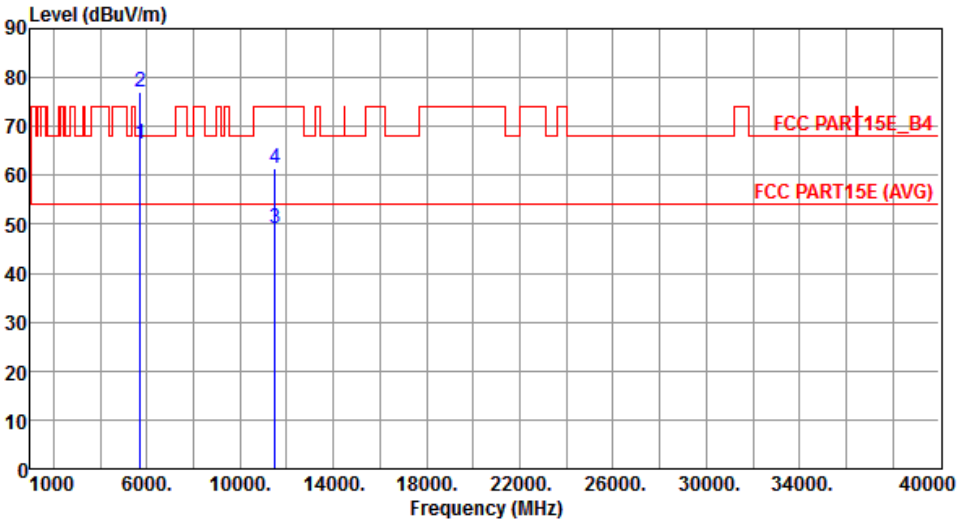
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.11	54.00	-7.89	40.55	5.56	Average	---	---
2	5150.00	58.87	74.00	-15.13	53.31	5.56	Peak	---	---
3	5350.00	45.57	54.00	-8.43	39.86	5.71	Average	---	---
4	5350.00	58.20	74.00	-15.80	52.49	5.71	Peak	---	---
5	10480.00	65.56	68.20	-2.64	50.32	15.24	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).

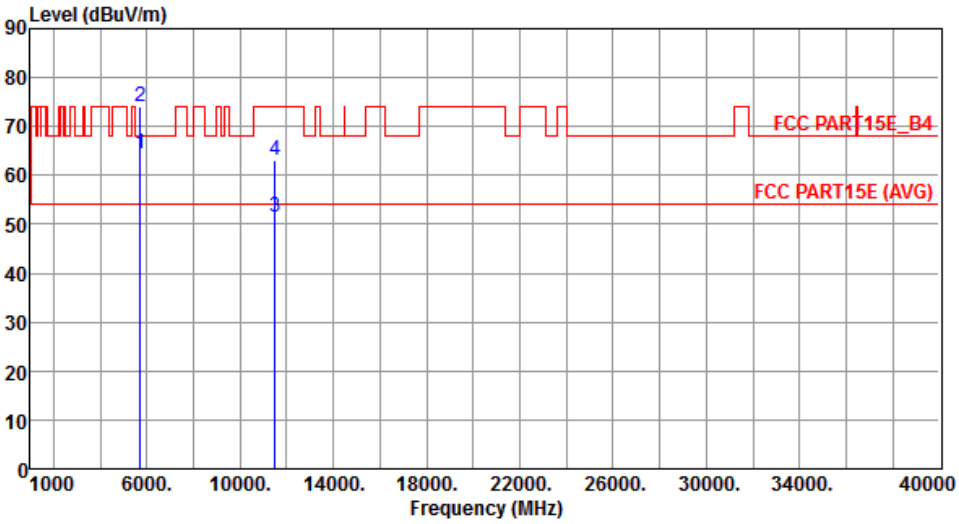
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	66.41	68.20	-1.79	60.83	5.58	Peak	---	---
2	5725.00	77.14	78.20	-1.06	71.56	5.58	Peak	---	---
3	11490.00	49.13	54.00	-4.87	34.56	14.57	Average	---	---
4	11490.00	61.30	74.00	-12.70	46.73	14.57	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).

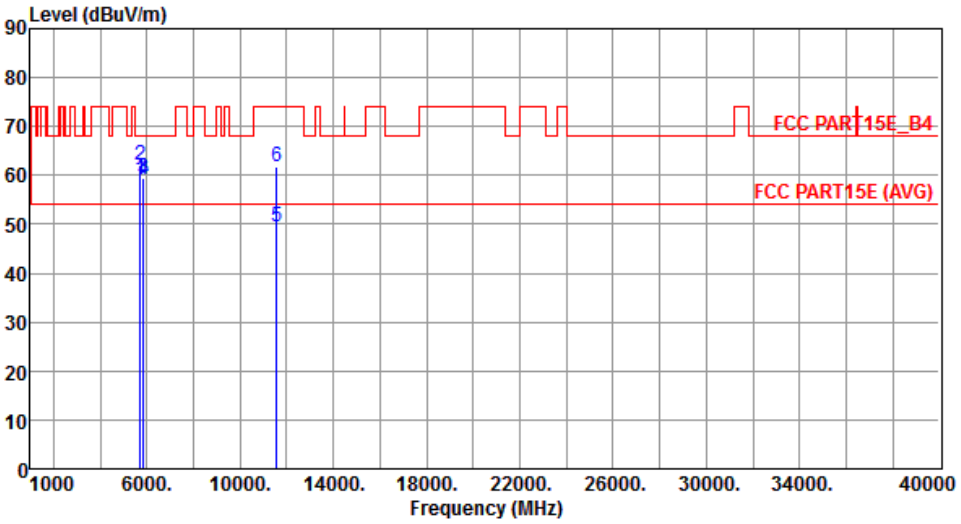
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	64.51	68.20	-3.69	58.93	5.58	Peak	---	---
2	5725.00	74.00	78.20	-4.20	68.42	5.58	Peak	---	---
3	11490.00	51.43	54.00	-2.57	36.86	14.57	Average	---	---
4	11490.00	63.02	74.00	-10.98	48.45	14.57	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).

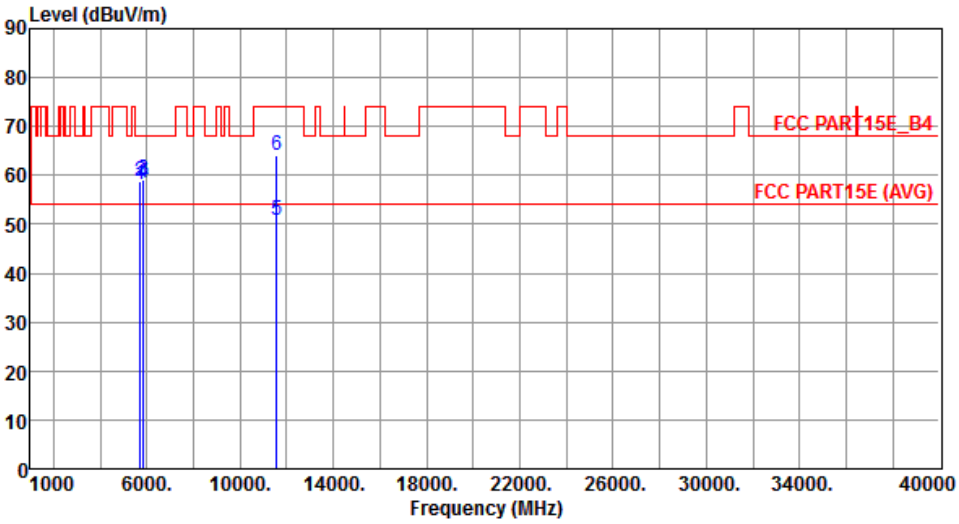
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	59.10	68.20	-9.10	53.52	5.58	Peak	---	---
2	5725.00	62.06	78.20	-16.14	56.48	5.58	Peak	---	---
3	5850.00	59.53	78.20	-18.67	53.91	5.62	Peak	---	---
4	5860.00	59.07	68.20	-9.13	53.45	5.62	Peak	---	---
5	11570.00	49.33	54.00	-4.67	34.84	14.49	Average	---	---
6	11570.00	61.91	74.00	-12.09	47.42	14.49	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).

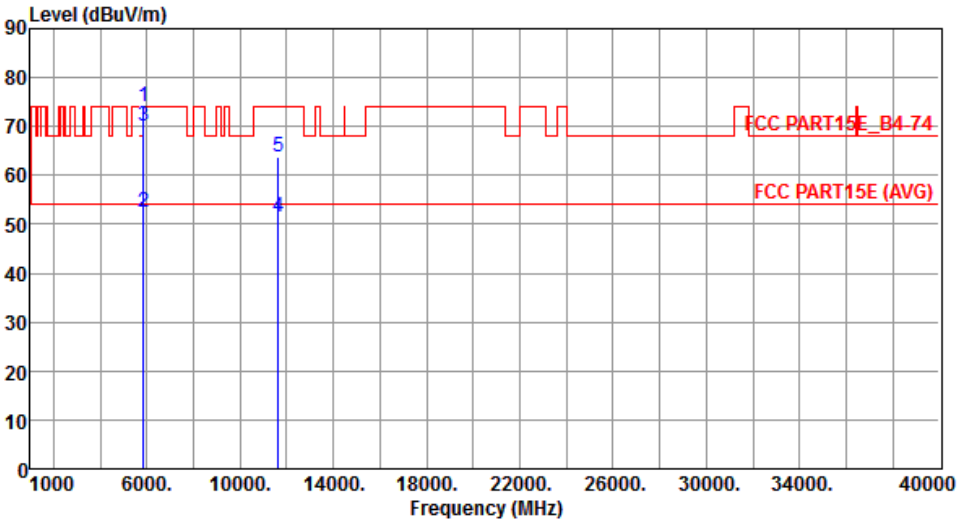
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	58.24	68.20	-9.96	52.66	5.58	Peak	---	---
2	5725.00	58.89	78.20	-19.31	53.31	5.58	Peak	---	---
3	5850.00	59.10	78.20	-19.10	53.48	5.62	Peak	---	---
4	5860.00	58.29	68.20	-9.91	52.67	5.62	Peak	---	---
5	11570.00	50.90	54.00	-3.10	36.41	14.49	Average	---	---
6	11570.00	64.07	74.00	-9.93	49.58	14.49	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).

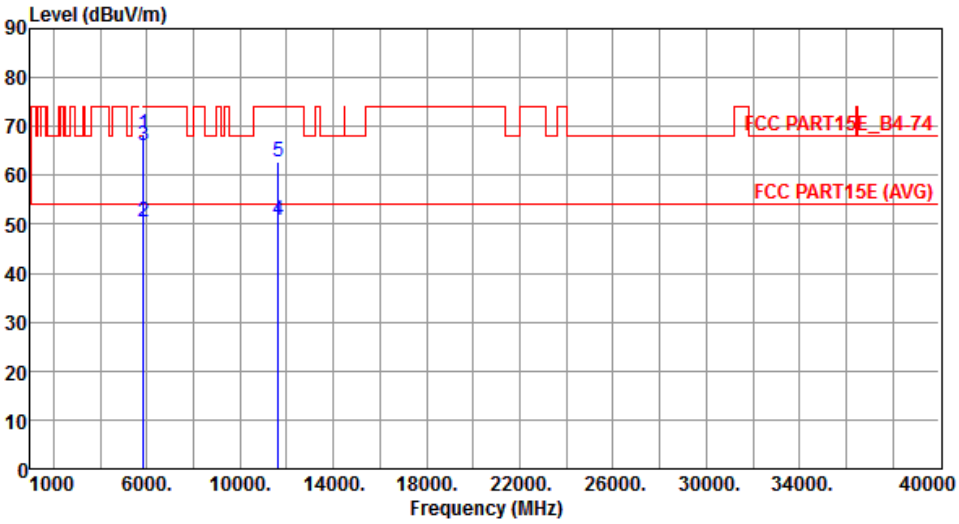
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	74.06	78.20	-4.14	68.44	5.62	Peak	---	---
2	5860.00	52.63	54.00	-1.37	47.01	5.62	Average	---	---
3	5860.00	70.15	74.00	-3.85	64.53	5.62	Peak	---	---
4	11650.00	51.32	54.00	-2.68	36.93	14.39	Average	---	---
5	11650.00	63.85	74.00	-10.15	49.46	14.39	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).

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

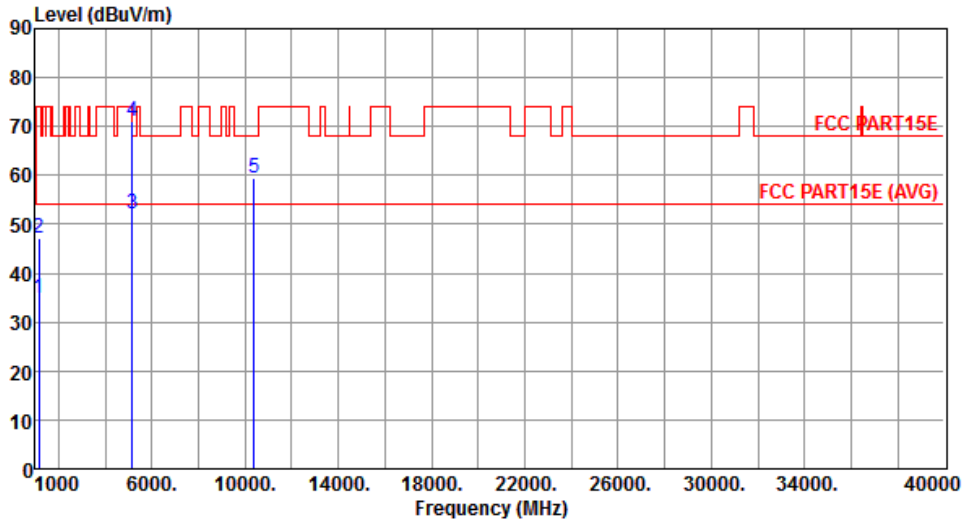


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	68.25	78.20	-9.95	62.63	5.62	Peak	---	---
2	5860.00	50.38	54.00	-3.62	44.76	5.62	Average	---	---
3	5860.00	66.06	74.00	-7.94	60.44	5.62	Peak	---	---
4	11650.00	50.78	54.00	-3.22	36.39	14.39	Average	---	---
5	11650.00	62.88	74.00	-11.12	48.49	14.39	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).

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

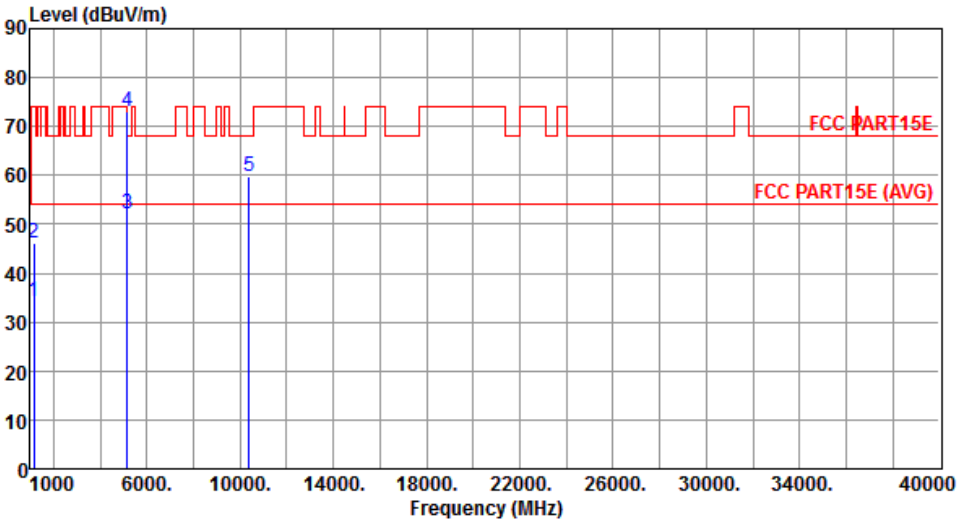
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.92	54.00	-19.08	44.20	-9.28	Average	---	---
2	1160.00	47.05	74.00	-26.95	56.33	-9.28	Peak	---	---
3	5150.00	52.00	54.00	-2.00	46.44	5.56	Average	---	---
4	5150.00	71.05	74.00	-2.95	65.49	5.56	Peak	---	---
5	10380.00	59.53	68.20	-8.67	44.42	15.11	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).

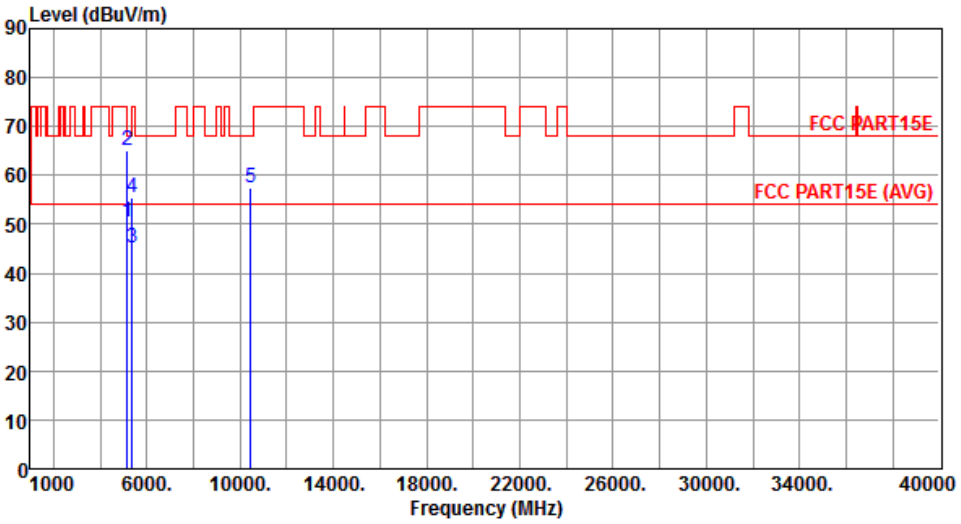
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.15	54.00	-19.85	43.43	-9.28	Average	---	---
2	1160.00	46.32	74.00	-27.68	55.60	-9.28	Peak	---	---
3	5150.00	52.28	54.00	-1.72	46.72	5.56	Average	---	---
4	5150.00	72.91	74.00	-1.09	67.35	5.56	Peak	---	---
5	10380.00	59.93	68.20	-8.27	44.82	15.11	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).

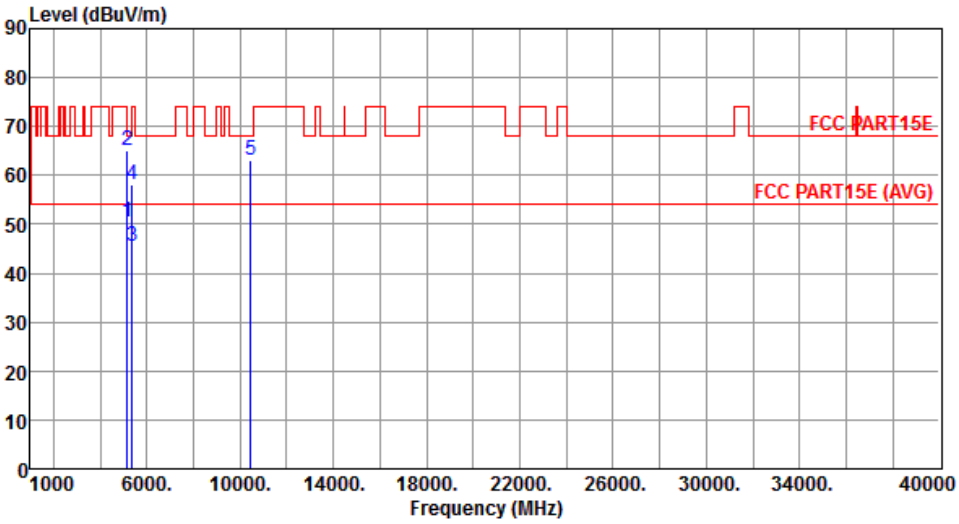
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	50.32	54.00	-3.68	44.76	5.56	Average	---	---
2	5150.00	65.19	74.00	-8.81	59.63	5.56	Peak	---	---
3	5350.00	45.15	54.00	-8.85	39.44	5.71	Average	---	---
4	5350.00	55.44	74.00	-18.56	49.73	5.71	Peak	---	---
5	10460.00	57.42	68.20	-10.78	42.21	15.21	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).

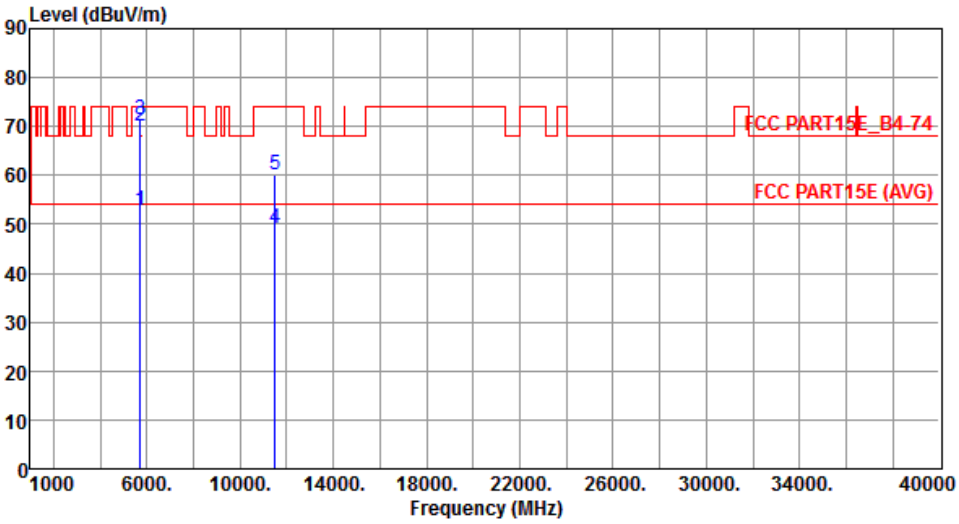
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	50.33	54.00	-3.67	44.77	5.56	Average	---	---
2	5150.00	65.12	74.00	-8.88	59.56	5.56	Peak	---	---
3	5350.00	45.52	54.00	-8.48	39.81	5.71	Average	---	---
4	5350.00	58.15	74.00	-15.85	52.44	5.71	Peak	---	---
5	10460.00	62.98	68.20	-5.22	47.77	15.21	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).

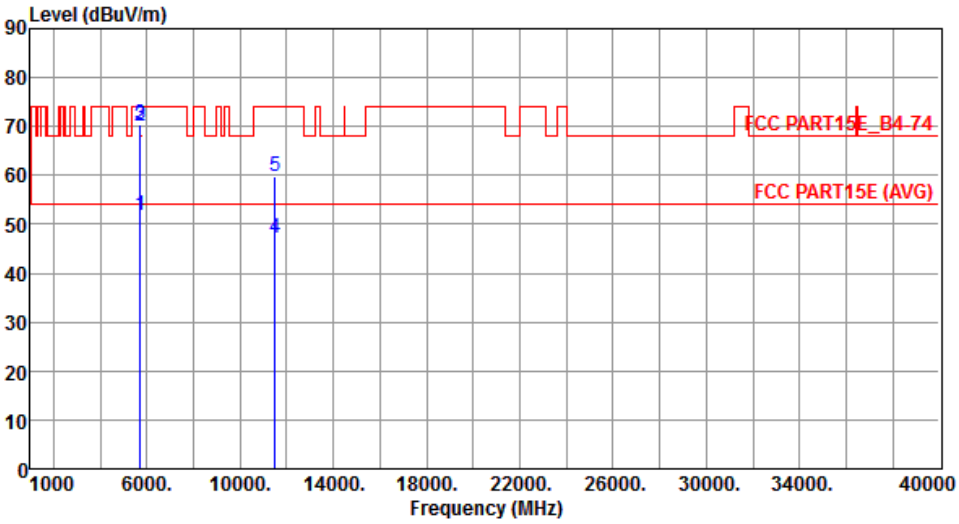
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	52.79	54.00	-1.21	47.21	5.58	Average	---	---
2	5715.00	70.00	74.00	-4.00	64.42	5.58	Peak	---	---
3	5725.00	71.31	78.20	-6.89	65.73	5.58	Peak	---	---
4	11510.00	49.00	54.00	-5.00	34.45	14.55	Average	---	---
5	11510.00	59.97	74.00	-14.03	45.42	14.55	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).

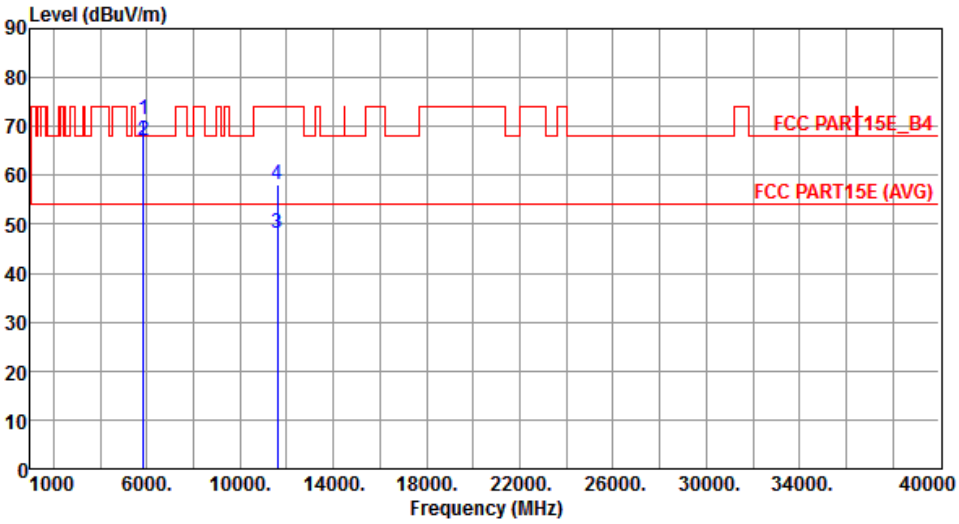
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	51.82	54.00	-2.18	46.24	5.58	Average	---	---
2	5715.00	70.01	74.00	-3.99	64.43	5.58	Peak	---	---
3	5725.00	70.31	78.20	-7.89	64.73	5.58	Peak	---	---
4	11510.00	47.21	54.00	-6.79	32.66	14.55	Average	---	---
5	11510.00	59.83	74.00	-14.17	45.28	14.55	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).

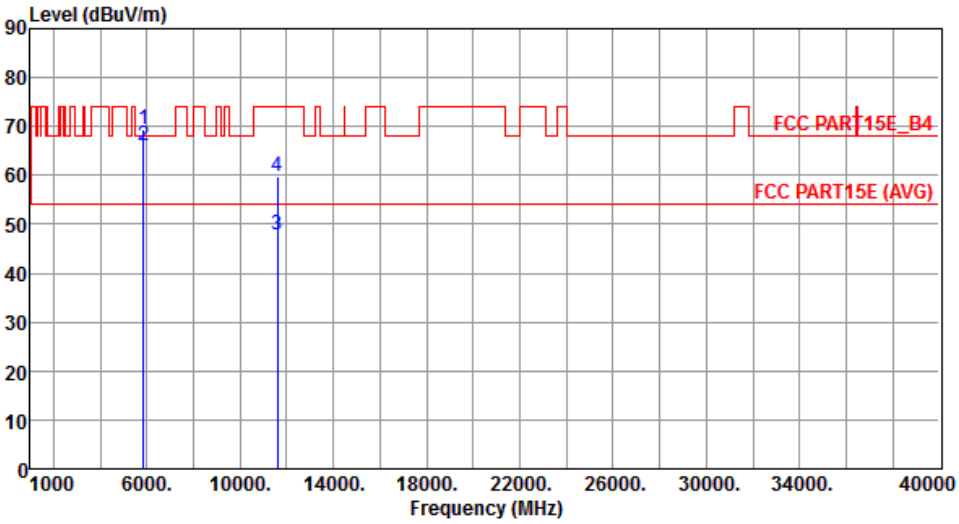
Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	71.38	78.20	-6.82	65.76	5.62	Peak	---	---
2	5860.00	67.15	68.20	-1.05	61.53	5.62	Peak	---	---
3	11590.00	48.24	54.00	-5.76	33.79	14.45	Average	---	---
4	11590.00	58.05	74.00	-15.95	43.60	14.45	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).

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

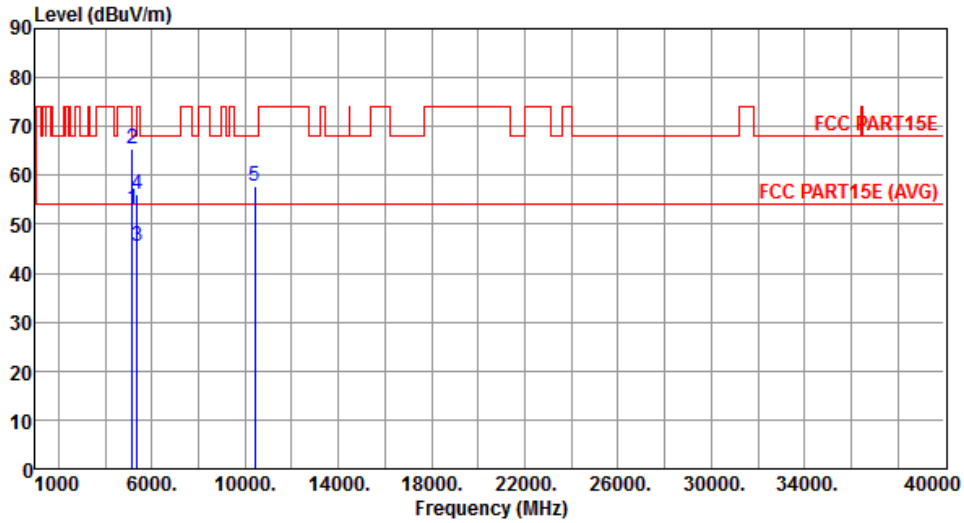


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	69.47	78.20	-8.73	63.85	5.62	Peak	---	---
2	5860.00	66.11	68.20	-2.09	60.49	5.62	Peak	---	---
3	11590.00	47.89	54.00	-6.11	33.44	14.45	Average	---	---
4	11590.00	59.94	74.00	-14.06	45.49	14.45	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).

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

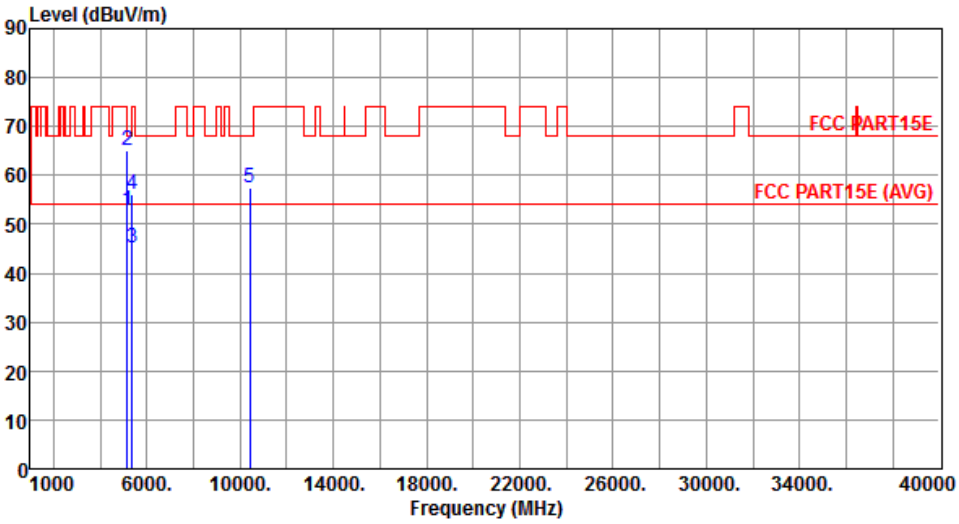
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	53.00	54.00	-1.00	47.44	5.56	Average	---	---
2	5150.00	65.38	74.00	-8.62	59.82	5.56	Peak	---	---
3	5350.00	45.37	54.00	-8.63	39.66	5.71	Average	---	---
4	5350.00	56.19	74.00	-17.81	50.48	5.71	Peak	---	---
5	10420.00	57.63	68.20	-10.57	42.48	15.15	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).

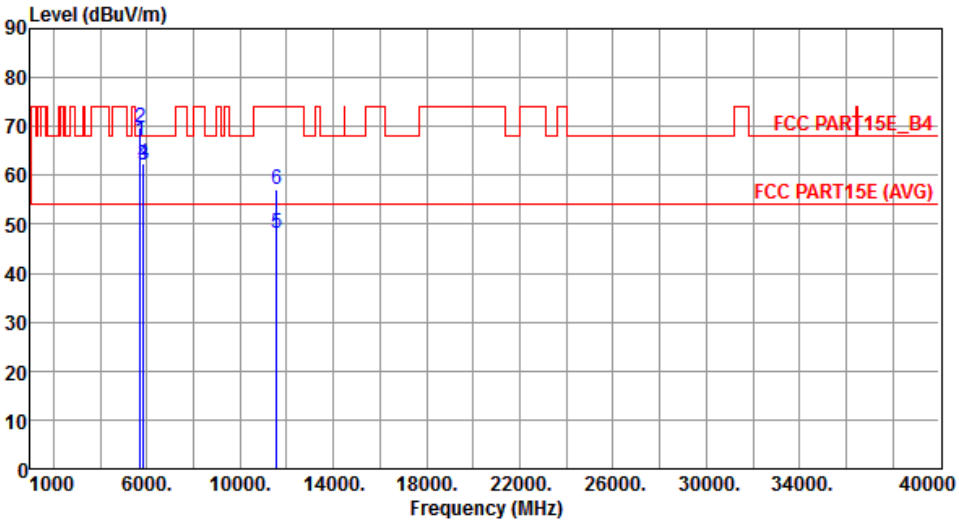
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	52.87	54.00	-1.13	47.31	5.56	Average	---	---
2	5150.00	65.21	74.00	-8.79	59.65	5.56	Peak	---	---
3	5350.00	45.17	54.00	-8.83	39.46	5.71	Average	---	---
4	5350.00	56.02	74.00	-17.98	50.31	5.71	Peak	---	---
5	10420.00	57.59	68.20	-10.61	42.44	15.15	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).

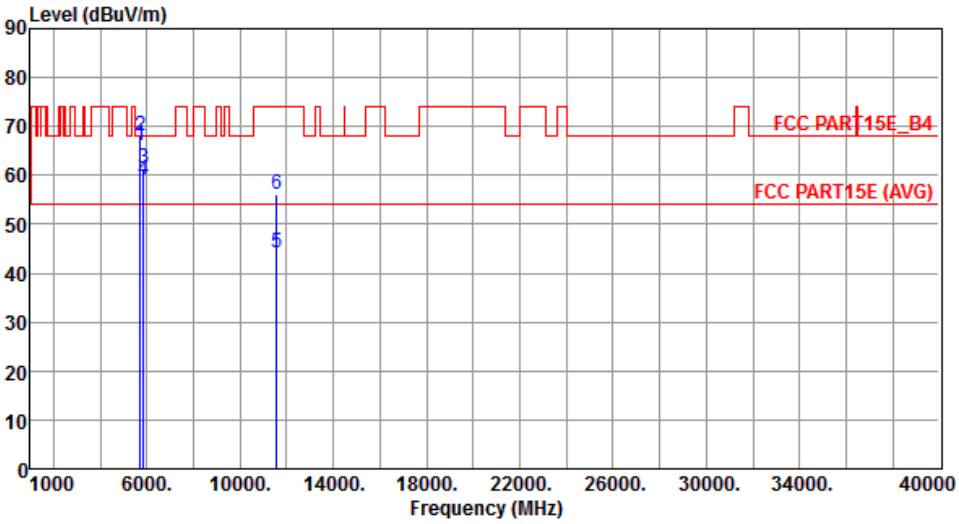
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	67.10	68.20	-1.10	61.52	5.58	Peak	---	---
2	5725.00	69.89	78.20	-8.31	64.31	5.58	Peak	---	---
3	5850.00	62.21	78.20	-15.99	56.59	5.62	Peak	---	---
4	5860.00	62.35	68.20	-5.85	56.73	5.62	Peak	---	---
5	11550.00	48.22	54.00	-5.78	33.72	14.50	Average	---	---
6	11550.00	57.08	74.00	-16.92	42.58	14.50	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).

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	66.06	68.20	-2.14	60.48	5.58	Peak	---	---
2	5725.00	68.24	78.20	-9.96	62.66	5.58	Peak	---	---
3	5850.00	61.35	78.20	-16.85	55.73	5.62	Peak	---	---
4	5860.00	59.27	68.20	-8.93	53.65	5.62	Peak	---	---
5	11550.00	44.12	54.00	-9.88	29.62	14.50	Average	---	---
6	11550.00	55.98	74.00	-18.02	41.48	14.50	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).

3.6 Frequency Stability

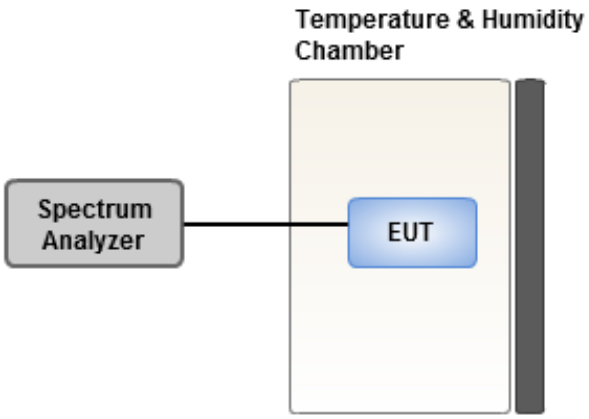
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	1.14	0.43	0.65	1.10
T20°CVmin	1.01	1.34	1.02	1.31
T50°CVnom	0.74	1.33	1.37	0.90
T40°CVnom	-0.47	-0.24	0.05	0.29
T30°CVnom	2.34	2.26	2.71	2.37
T20°CVnom	2.27	1.91	1.75	2.80
T10°CVnom	0.89	1.35	1.43	1.65
T0°CVnom	1.60	1.88	1.57	1.54
T-10°CVnom	1.64	1.66	2.26	2.27
T-20°CVnom	-1.72	-1.37	-1.68	-1.59
T-30°CVnom	1.69	2.49	2.14	2.67
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 50		Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	0.20	0.36	0.02	-0.09
T20°CVmin	1.14	1.43	1.29	1.62
T50°CVnom	0.37	1.08	0.81	0.68
T40°CVnom	-0.59	0.09	-0.27	0.01
T30°CVnom	1.90	1.78	2.25	1.90
T20°CVnom	2.30	2.36	2.40	2.32
T10°CVnom	1.22	1.86	1.25	1.33
T0°CVnom	0.59	0.76	0.63	1.38
T-10°CVnom	1.48	1.42	1.51	1.25
T-20°CVnom	-1.06	-0.64	-0.68	-1.43
T-30°CVnom	2.59	2.93	2.43	2.51
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, 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 Hsiang. Location map can be found on our website http://www.icertifi.com.tw.

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

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