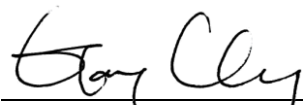


FCC Test Report

FCC ID : NKRDAUK-W8812
Equipment : 802.11 a/b/g/n/ac Module
Model No. : DAUK-W8812
Brand Name : WNC
Applicant : Wistron NeWeb Corporation
Address : 20 Park Avenue II, Hsinchu Science Park,
Hsinchu 308,Taiwan,R.O.C.
Standard : 47 CFR FCC Part 15.407
Received Date : Jul. 02, 2014
Tested Date : Jul. 14 ~ Jul. 22, 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



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Release Record

Report No.	Version	Description	Issued Date
FR470203AN	Rev. 01	Initial issue	Aug. 14, 2014
FR470203AN	Rev. 02	Adding -30°C frequency stability test result of 5320 MHz and modify Output power and PSD limit of band 1	Sep. 05, 2014

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.155MHz 44.83 (Margin -10.91dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 11440.00MHz 52.99 (Margin -1.01dB) - AV [dBuV/m at 3m]: 5715.00MHz 52.99 (Margin -1.01dB) - 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: 23.47 5250~5350MHz: 23.68 5470~5725MHz: 23.03 5725~5850MHz: 19.92	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	MCS 0-7
				2	MCS 8-15
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	1	MCS 0-7
				2	MCS 8-15
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	MCS 0-9
				2	
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	1	MCS 0-9
				2	
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	1	MCS 0-9
				2	

Note 1: RF output power specifies that Maximum Conducted Output Power.
Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	81.EEW15.GFV	PIFA	U.FL	-3.77	-4	-3.5	-3.56	-4.31

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host
-------------------	----------------

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	VHT80	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	Realtek, Version: 0.0061.08.20140328		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	95.56%	0.20
	VHT20	93.42%	0.30
	VHT40	72.00%	1.43
	VHT80	67.34%	1.72

1.1.7 Power Setting

For Frequency band 5150-5250 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5180	55
11a	5200	63
11a	5240	62
HT20	5180	55/52
HT20	5200	60/57
HT20	5240	63/59
HT40	5190	49/47
HT40	5230	63/61
VHT20	5180	55/52
VHT20	5200	60/57
VHT20	5240	63/59
VHT40	5190	49/47
VHT40	5230	63/61
VHT80	5210	44/44

For Frequency band 5250~5350 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5260	62
11a	5300	62
11a	5320	51
HT20	5260	57/53
HT20	5300	47/43
HT20	5320	45/40
HT40	5270	63/60
HT40	5310	42/39
VHT20	5260	57/53
VHT20	5300	47/43
VHT20	5320	45/40
VHT40	5270	63/60
VHT40	5310	42/39
VHT80	5290	41/36

For Frequency band 5470~5725 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5500	58
11a	5580	59
11a	5700	50
HT20	5500	58/53
HT20	5580	57/51
HT20	5700	51/49
HT40	5510	47/42
HT40	5550	56/52
HT40	5670	57/54
VHT20	5500	58/53
VHT20	5580	57/51
VHT20	5700	51/49
VHT40	5510	47/42
VHT40	5590	56/52
VHT40	5670	57/54
VHT80	5530	41/36
VHT80	5610	56/52

Channel that extends across the 5.725 GHz boundary

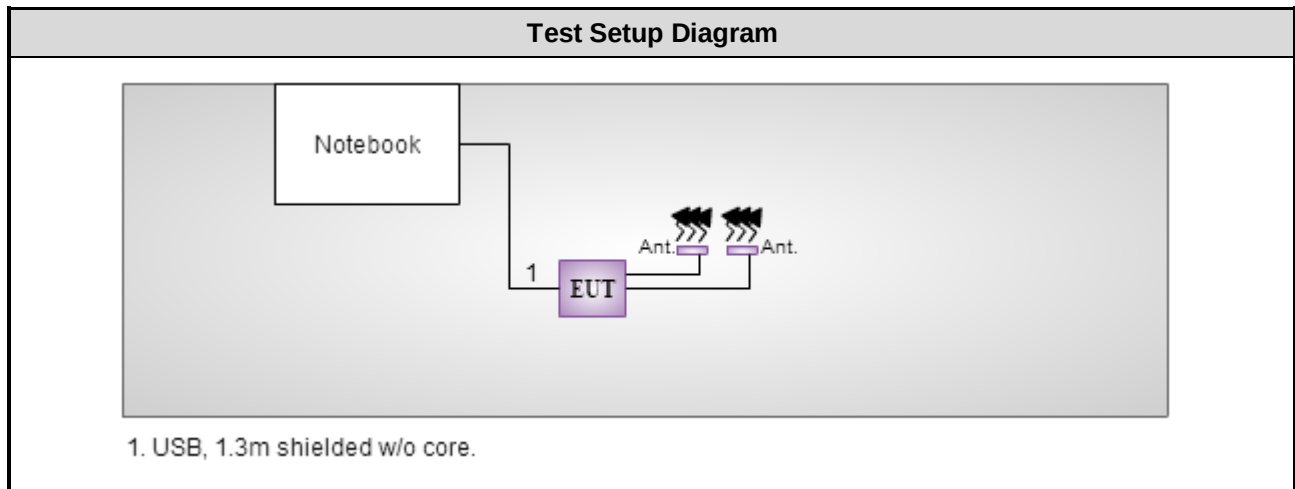
For Frequency band 5470~5725 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5720	60
HT20	5720	61/59
HT40	5710	63/61
VHT20	5720	61/59
VHT40	5710	63/61
VHT80	5690	63/61

For Frequency band 5725~5850 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5745	45
11a	5785	45
11a	5825	44
HT20	5745	49/50
HT20	5785	50/51
HT20	5825	46/50
HT40	5755	44/45
HT40	5795	53/55
VHT20	5745	49/50
VHT20	5785	50/51
VHT20	5825	46/50
VHT40	5755	44/45
VHT40	5795	53/55
VHT80	5775	41/43

1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	E6430	---	DoC	USB, 1.3m shielded w/o core

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
EMC Receiver	R&S	ESCS 30	100169	Oct. 15, 2013	Oct. 14, 2014
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014
LISN (Support Unit)	SCHWARZBECK	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
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Oct. 07, 2013	Oct. 06, 2014
Receiver	Agilent	N9038A	MY53290044	Jan. 08, 2014	Jan. 07, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-562	Feb. 07, 2014	Feb. 06, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 20, 2014	Feb. 19, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014
Preamplifier	EMC	EMC02325	980187	Nov. 22, 2013	Nov. 21, 2014
Preamplifier	Agilent	83017A	MY53270014	Nov. 22, 2013	Nov. 21, 2014
Preamplifier	WM	TF-130N-R1	923365	Oct. 23, 2013	Oct. 22, 2014
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 19, 2014	Feb. 18, 2015
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22601/4	Feb. 19, 2014	Feb. 18, 2015
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 19, 2014	Feb. 18, 2015
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 17, 2014	Feb. 16, 2015
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 17, 2014	Feb. 16, 2015
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 17, 2014	Feb. 16, 2015
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
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	1207366	Oct. 24, 2013	Oct. 23, 2014
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 KDB 789033 D02 General UNII Test Procedures New Rules v01

FCC KDB 644545 D01 Guidance for IEEE 802 11ac v01r02

FCC KDB 644545 D02 Alternative Guidance for 802 11ac v01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

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 ≤ 1 GHz	± 3.26 dB
Radiated emission > 1 GHz	± 4.94 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	20°C / 66%	Skys Huang
Radiated Emissions	03CH03-WS	21-23°C / 61-63%	Aska Huang
RF Conducted	TH01-WS	24°C / 64%	Brad Wu

➤ FCC site registration No.: 390588

➤ IC site registration No.: 10807C-1

2.2 The Worst Test Modes and Channel Details

Frequency band		5150~5250 MHz 5250~5350 MHz 5470~5725 MHz		
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT40	5270	MCS 8	2Tx
Radiated Emissions ≤ 1 GHz	VHT40	5270	MCS 8	2Tx
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1Tx
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 8	2Tx
	HT40	5190 / 5230 / 5270 / 5310 / 5510 5550 / 5670 / 5710	MCS 8	2Tx
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 8	2Tx
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 8	2Tx
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 8	2Tx
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1Tx
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 8	2Tx
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 8	2Tx
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 8	2Tx
Frequency Stability	Un-modulation	5320	---	---
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-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	VHT40	5795	MCS 8	2Tx
Radiated Emissions ≤1GHz	VHT40	5795	MCS 8	2Tx
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	1Tx
	HT20	5745 / 5785 / 5825	MCS 8	2Tx
	HT40	5755 / 5795	MCS 8	2Tx
	VHT20	5745 / 5785 / 5825	MCS 8	2Tx
	VHT40	5755 / 5795	MCS 8	2Tx
	VHT80	5775	MCS 8	2Tx
Radiated Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	1Tx
Emission Bandwidth	VHT20	5745 / 5785 / 5825	MCS 8	2Tx
6dB bandwidth	VHT40	5755 / 5795	MCS 8	2Tx
Peak Power Spectral Density	VHT80	5775	MCS 8	2Tx
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 Z-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

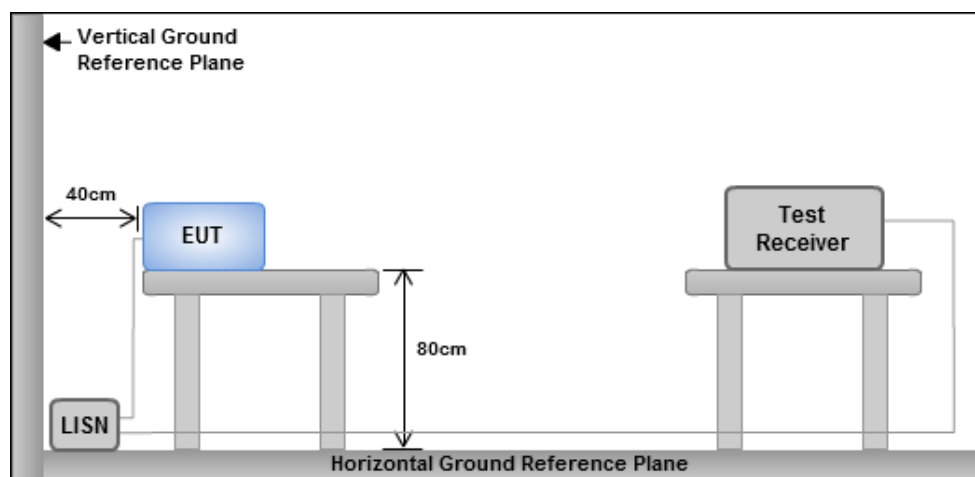
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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	VHT40	Test Freq. (MHz)	5270
Power Phase	Line		

Level (dBuV)

Date: 2014-07-18

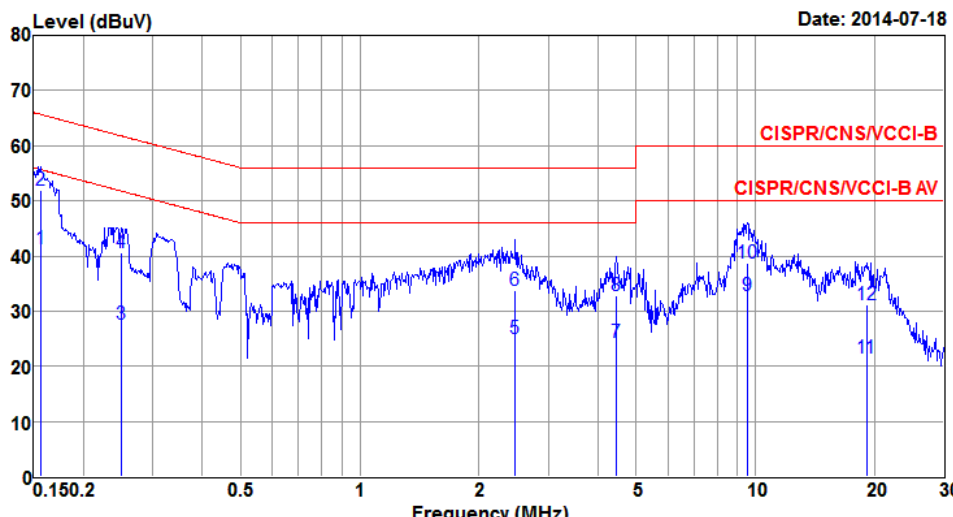
Frequency (MHz)

	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1*	0.156	41.97	55.69	-13.72	41.54	0.41	0.02	Average
2	0.156	51.73	65.69	-13.96	51.30	0.41	0.02	QP
3	0.249	31.28	51.78	-20.50	30.81	0.46	0.01	Average
4	0.249	41.20	61.78	-20.58	40.73	0.46	0.01	QP
5	0.499	21.91	46.01	-24.10	21.27	0.58	0.06	Average
6	0.499	34.91	56.01	-21.10	34.27	0.58	0.06	QP
7	2.273	27.68	46.00	-18.32	26.62	1.02	0.04	Average
8	2.273	35.42	56.00	-20.58	34.36	1.02	0.04	QP
9	9.352	36.25	50.00	-13.75	34.36	1.65	0.24	Average
10	9.352	40.32	60.00	-19.68	38.43	1.65	0.24	QP
11	19.845	26.48	50.00	-23.52	23.99	2.09	0.40	Average
12	19.845	32.84	60.00	-27.16	30.35	2.09	0.40	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)	5270
Power Phase	Neutral		

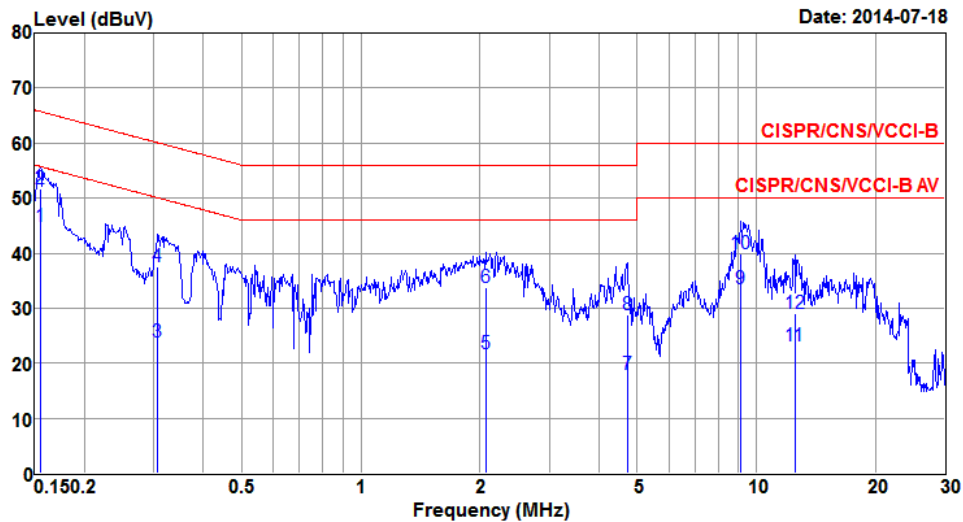


Date: 2014-07-18

	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.156	41.42	55.69	-14.27	40.91	0.49	0.02	Average
2*	0.156	51.85	65.69	-13.84	51.34	0.49	0.02	QP
3	0.249	27.59	51.78	-24.19	27.04	0.54	0.01	Average
4	0.249	40.68	61.78	-21.10	40.13	0.54	0.01	QP
5	2.474	24.94	46.00	-21.06	23.78	1.10	0.06	Average
6	2.474	33.86	56.00	-22.14	32.70	1.10	0.06	QP
7	4.454	24.34	46.00	-21.66	22.98	1.20	0.16	Average
8	4.454	32.74	56.00	-23.26	31.38	1.20	0.16	QP
9	9.552	32.81	50.00	-17.19	30.88	1.69	0.24	Average
10	9.552	38.77	60.00	-21.23	36.84	1.69	0.24	QP
11	19.122	21.49	50.00	-28.51	18.57	2.54	0.38	Average
12	19.122	31.10	60.00	-28.90	28.18	2.54	0.38	QP

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

Modulation	VHT40	Test Freq. (MHz)	5795
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.155	44.83	55.74	-10.91	44.40	0.41	0.02	Average
2	0.155	51.59	65.74	-14.15	51.16	0.41	0.02	QP
3	0.307	23.86	50.06	-26.20	23.35	0.49	0.02	Average
4	0.307	37.43	60.06	-22.63	36.92	0.49	0.02	QP
5	2.066	21.68	46.00	-24.32	20.64	1.01	0.03	Average
6	2.066	33.80	56.00	-22.20	32.76	1.01	0.03	QP
7	4.721	18.06	46.00	-27.94	16.71	1.18	0.17	Average
8	4.721	28.79	56.00	-27.21	27.44	1.18	0.17	QP
9	9.156	33.41	50.00	-16.59	31.53	1.64	0.24	Average
10	9.156	39.82	60.00	-20.18	37.94	1.64	0.24	QP
11	12.516	23.25	50.00	-26.75	21.15	1.82	0.28	Average
12	12.516	29.10	60.00	-30.90	27.00	1.82	0.28	QP

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

Modulation	VHT40	Test Freq. (MHz)	5795
Power Phase	Neutral		

Level (dBuV)

Date: 2014-07-18

Freq	Level	Limit	Over	Read	LISN	cable		
MHz	dBuV	Line	Limit	Level	factor	loss	Remark	
		dBuV	dB	dBuV	dB	dB		
1*	0.156	42.76	55.69	-12.93	42.25	0.49	0.02	Average
2	0.156	51.08	65.69	-14.61	50.57	0.49	0.02	QP
3	0.244	32.58	51.95	-19.37	32.03	0.54	0.01	Average
4	0.244	40.78	61.95	-21.17	40.23	0.54	0.01	QP
5	0.320	29.42	49.71	-20.29	28.82	0.58	0.02	Average
6	0.320	39.05	59.71	-20.66	38.45	0.58	0.02	QP
7	2.044	23.77	46.00	-22.23	22.66	1.09	0.02	Average
8	2.044	35.18	56.00	-20.82	34.07	1.09	0.02	QP
9	4.430	21.49	46.00	-24.51	20.14	1.19	0.16	Average
10	4.430	29.51	56.00	-26.49	28.16	1.19	0.16	QP
11	9.451	34.03	50.00	-15.97	32.11	1.68	0.24	Average
12	9.451	39.19	60.00	-20.81	37.27	1.68	0.24	QP

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

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

3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

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

3.2.2 Test Procedures

26dB Bandwidth

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

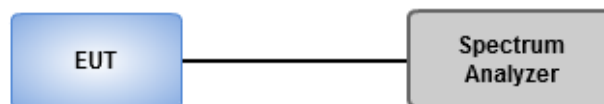
Occupied Bandwidth

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

6dB Bandwidth

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

3.2.3 Test Setup

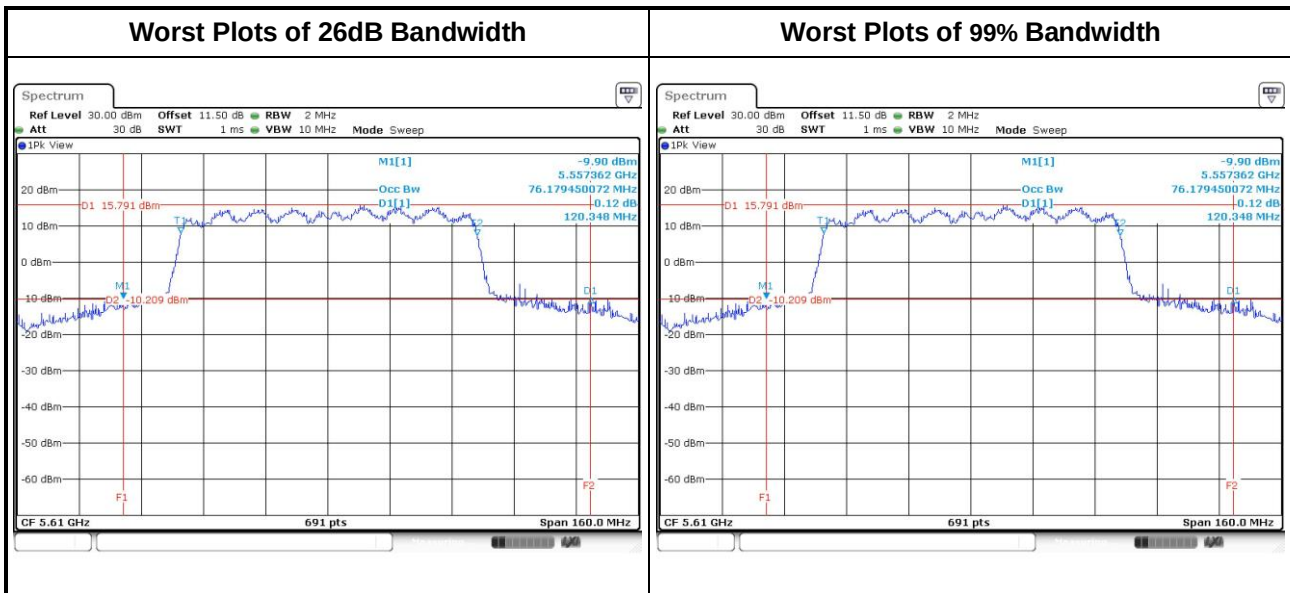


3.2.4 Test Result of Emission Bandwidth

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	27.42	---	---	---	17.25	---	---	---
11a	1	5200	43.99	---	---	---	26.56	---	---	---
11a	1	5240	44.57	---	---	---	28.94	---	---	---
VHT20	2	5180	23.13	22.55	---	---	18.06	17.83	---	---
VHT20	2	5200	37.61	34.42	---	---	19.32	18.67	---	---
VHT20	2	5240	44.64	41.88	---	---	23.88	20.33	---	---
VHT40	2	5190	46.26	48.93	---	---	37.51	37.05	---	---
VHT40	2	5230	91.01	90.73	---	---	44.14	44.28	---	---
VHT80	2	5210	82.09	81.39	---	---	75.25	75.02	---	---

Frequency band						5250~5350 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	1	5260	45.07	---	---	---	29.45	---	---	---	24.00
11a	1	5300	45.51	---	---	---	30.61	---	---	---	24.00
11a	1	5320	40.14	---	---	---	18.60	---	---	---	24.00
VHT20	2	5260	41.74	33.48	---	---	20.77	18.52	---	---	24.00
VHT20	2	5300	22.84	21.74	---	---	18.06	17.83	---	---	24.00
VHT20	2	5320	22.43	21.91	---	---	18.00	17.77	---	---	24.00
VHT40	2	5270	89.28	95.22	---	---	46.16	48.19	---	---	24.00
VHT40	2	5310	44.87	45.33	---	---	37.28	37.16	---	---	24.00
VHT80	2	5290	81.86	81.62	---	---	75.02	75.25	---	---	24.00

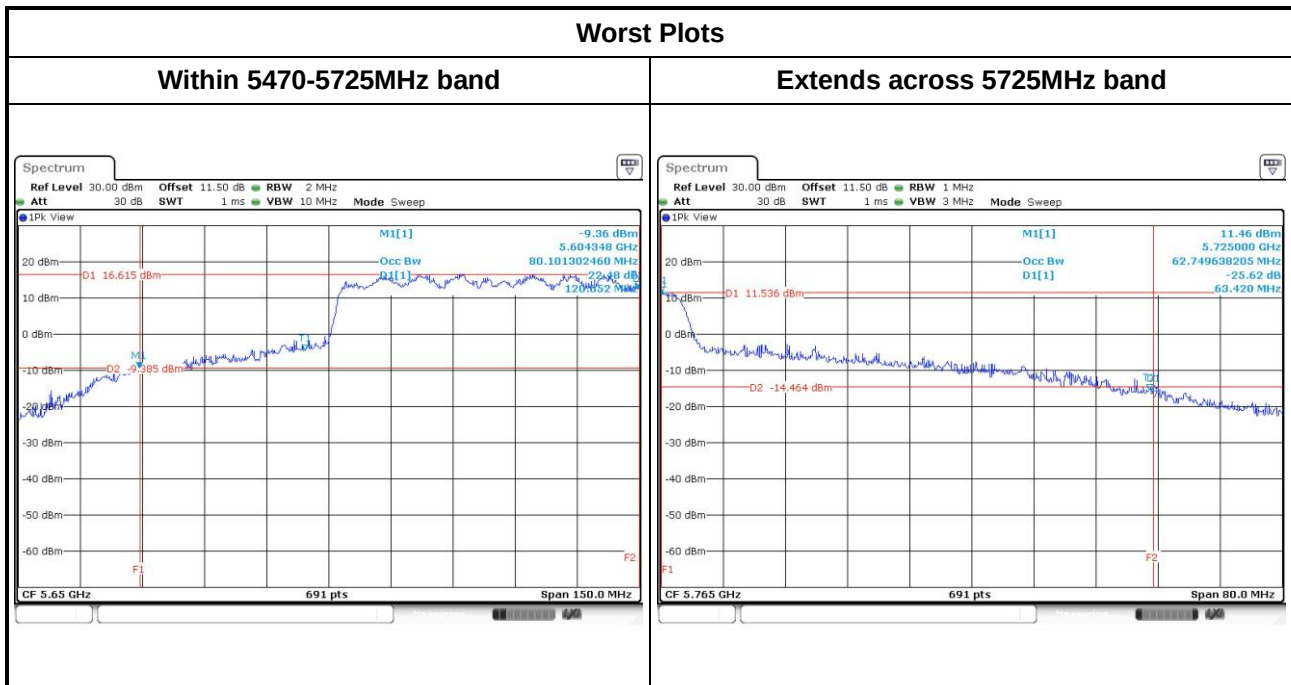
Frequency band							5470~5725 MHz				
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	1	5500	26.61	---	---	---	17.31	---	---	---	24.00
11a	1	5580	42.03	---	---	---	21.35	---	---	---	24.00
11a	1	5700	29.28	---	---	---	17.42	---	---	---	24.00
VHT20	2	5500	22.90	23.01	---	---	18.06	17.83	---	---	24.00
VHT20	2	5580	27.42	24.64	---	---	18.23	18.00	---	---	24.00
VHT20	2	5700	25.68	23.94	---	---	18.18	17.95	---	---	24.00
VHT40	2	5510	45.68	44.17	---	---	37.40	36.93	---	---	24.00
VHT40	2	5590	74.09	69.22	---	---	38.09	37.51	---	---	24.00
VHT40	2	5670	84.64	81.30	---	---	39.07	38.06	---	---	24.00
VHT80	2	5530	82.09	81.62	---	---	75.48	75.25	---	---	24.00
VHT80	2	5610	120.35	114.55	---	---	76.18	76.18	---	---	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	
11a	1	5720	26.18	---	---	---	15.87	---	---	---	24.00
VHT20	2	5720	24.27	23.41	---	---	15.07	14.15	---	---	24.00
VHT40	2	5710	60.77	62.39	---	---	36.57	35.25	---	---	24.00
VHT80	2	5690	114.13	120.65	---	---	77.71	80.10	---	---	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	1	5720	14.65	---	---	---	10.98	---	---	---	22.66
VHT20	2	5720	14.70	13.46	---	---	10.25	7.05	---	---	22.29
VHT40	2	5710	32.52	28.52	---	---	28.25	26.51	---	---	24.00
VHT80	2	5690	62.49	63.42	---	---	63.10	62.75	---	---	24.00

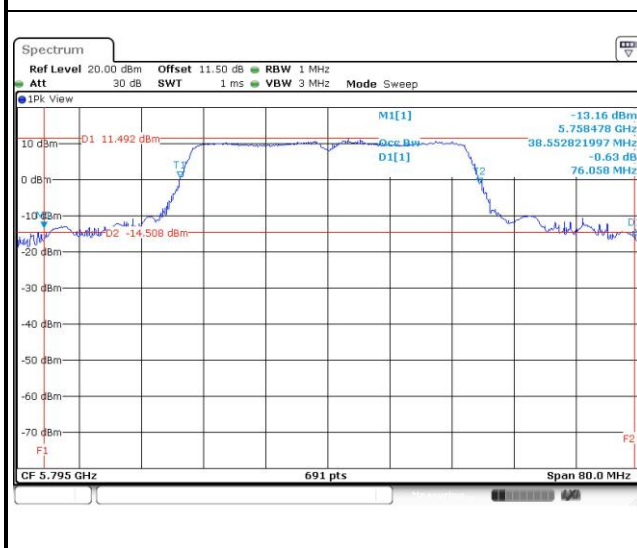


For Frequency band 5725-5850 MHz

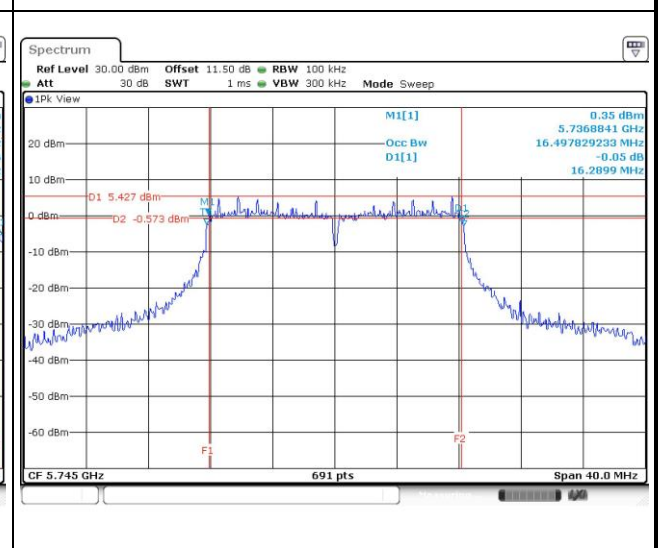
Emission Bandwidth

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	17.08	---	---	---	16.29	---	---	---	0.5
11a	1	5785	17.25	---	---	---	16.29	---	---	---	0.5
11a	1	5825	17.31	---	---	---	16.29	---	---	---	0.5
VHT20	2	5745	18.18	17.89	---	---	17.28	17.57	---	---	0.5
VHT20	2	5785	19.04	18.18	---	---	17.04	17.57	---	---	0.5
VHT20	2	5825	18.06	17.89	---	---	17.28	17.51	---	---	0.5
VHT40	2	5755	37.28	36.93	---	---	35.83	36.41	---	---	0.5
VHT40	2	5795	38.55	37.63	---	---	35.83	36.29	---	---	0.5
VHT80	2	5775	75.48	75.25	---	---	75.13	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

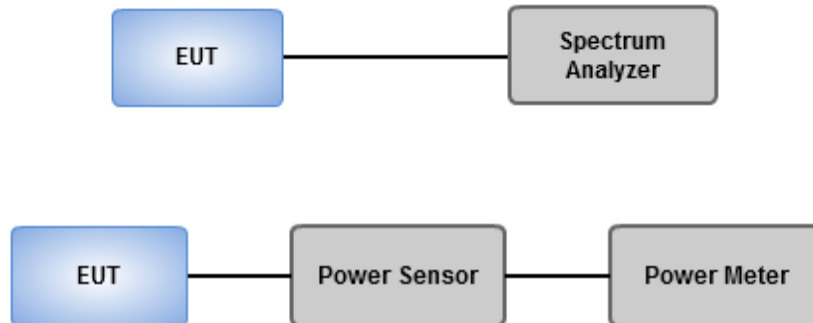
Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☐	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted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

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

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

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	18.55	---	---	---	71.614	18.55	24.00
11a	1	5200	21.81	---	---	---	151.705	21.81	24.00
11a	1	5240	22.03	---	---	---	159.588	22.03	24.00
HT20	2	5180	16.99	16.73	---	---	97.101	19.87	24.00
HT20	2	5200	18.92	19.16	---	---	160.397	22.05	24.00
HT20	2	5240	19.85	19.43	---	---	184.305	22.66	24.00
HT40	2	5190	14.66	15.16	---	---	62.051	17.93	24.00
HT40	2	5230	20.38	20.39	---	---	218.540	23.40	24.00
VHT20	2	5180	17.02	16.88	---	---	99.103	19.96	24.00
VHT20	2	5200	19.03	19.22	---	---	163.544	22.14	24.00
VHT20	2	5240	19.93	19.55	---	---	188.558	22.75	24.00
VHT40	2	5190	14.73	15.25	---	---	63.213	18.01	24.00
VHT40	2	5230	20.43	20.49	---	---	222.352	23.47	24.00
VHT80	2	5210	13.55	14.38	---	---	50.062	17.00	24.00

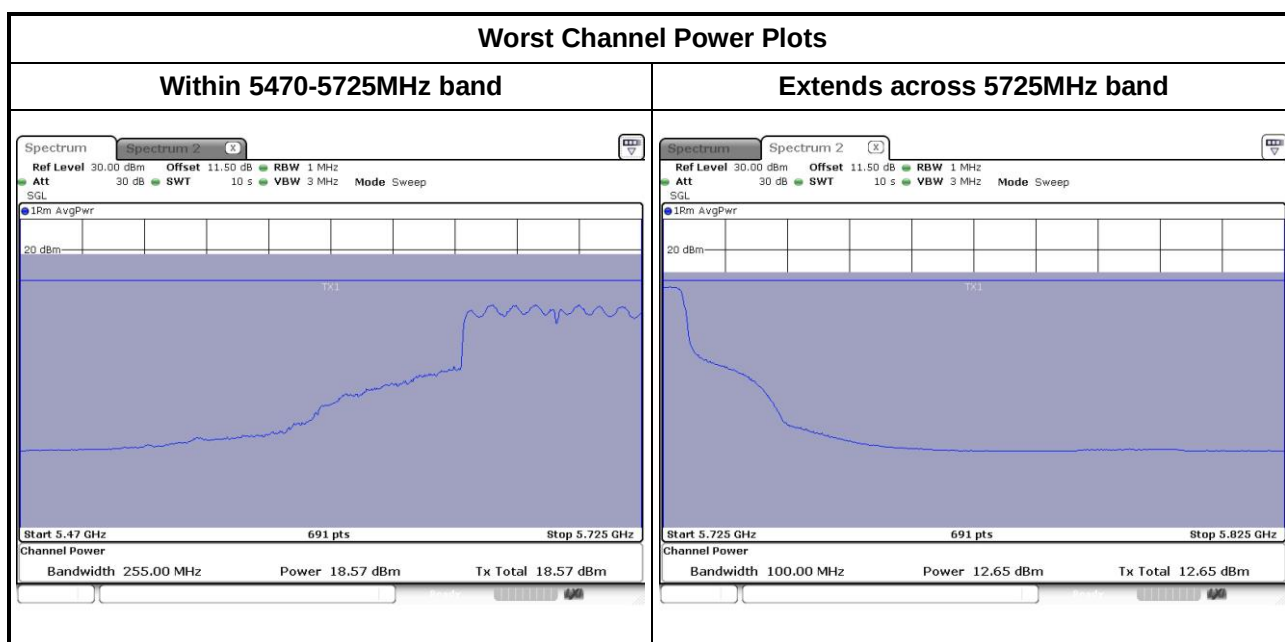
Frequency band			5250~5350 MHz						
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5260	22.22	---	---	---	166.725	22.22	24.00
11a	1	5300	22.51	---	---	---	178.238	22.51	24.00
11a	1	5320	19.58	---	---	---	90.782	19.58	24.00
HT20	2	5260	18.65	18.26	---	---	140.271	21.47	24.00
HT20	2	5300	15.69	15.58	---	---	73.209	18.65	24.00
HT20	2	5320	15.16	14.75	---	---	62.663	17.97	24.00
HT40	2	5270	20.66	20.57	---	---	230.438	23.63	24.00
HT40	2	5310	14.25	14.31	---	---	53.585	17.29	24.00
VHT20	2	5180	18.72	18.35	---	---	142.864	21.55	24.00
VHT20	2	5200	15.78	15.69	---	---	74.912	18.75	24.00
VHT20	2	5240	15.22	14.83	---	---	63.675	18.04	24.00
VHT40	2	5190	20.70	20.64	---	---	233.367	23.68	24.00
VHT40	2	5230	14.41	14.52	---	---	55.920	17.48	24.00
VHT80	2	5290	13.55	13.05	---	---	42.830	16.32	24.00

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	1	5500	18.82	---	---	---	76.208	18.82	24.00
11a	1	5580	20.22	---	---	---	105.196	20.22	24.00
11a	1	5700	18.38	---	---	---	68.865	18.38	24.00
HT20	2	5500	16.53	17.11	---	---	96.382	19.84	24.00
HT20	2	5580	17.80	17.25	---	---	113.344	20.54	24.00
HT20	2	5700	16.39	16.87	---	---	92.192	19.65	24.00
HT40	2	5510	12.94	13.46	---	---	41.861	16.22	24.00
HT40	2	5590	18.02	18.35	---	---	131.778	21.20	24.00
HT40	2	5670	18.28	18.29	---	---	134.750	21.30	24.00
VHT20	2	5500	16.58	17.15	---	---	97.379	19.88	24.00
VHT20	2	5580	17.86	17.36	---	---	115.544	20.63	24.00
VHT20	2	5700	16.44	17.03	---	---	94.522	19.76	24.00
VHT40	2	5510	13.05	13.58	---	---	42.987	16.33	24.00
VHT40	2	5590	18.19	18.43	---	---	135.580	21.32	24.00
VHT40	2	5670	18.33	18.35	---	---	136.468	21.35	24.00
VHT80	2	5530	10.66	11.15	---	---	24.673	13.92	24.00
VHT80	2	5610	17.83	18.11	---	---	125.388	20.98	24.00

Channel that extends across the 5.725 GHz boundary

Maximum Conducted Output Power (Within 5470-5725MHz band)									
RF Output Power (dBm)									
Mode	N _{TX}	Freq. (MHz)	Chain 0	Chain 1	Chain 2	Chain 3	Total Power (mW)	Total Power (dBm)	Limit
11a	1	5720	18.15	---	---	---	65.269	18.15	24.00
HT20	2	5720	16.99	16.84	---	---	98.327	19.93	24.00
HT40	2	5710	18.77	18.98	---	---	154.463	21.89	24.00
VHT20	2	5720	16.42	16.59	---	---	89.362	19.51	24.00
VHT40	2	5710	19.02	19.05	---	---	160.019	22.04	24.00
VHT80	2	5690	19.74	20.29	---	---	200.968	23.03	24.00

Maximum Conducted Output Power (Extends across 5725MHz band)									
RF Output Power (dBm)									
Mode	N _{TX}	Freq. (MHz)	Chain 0	Chain 1	Chain 2	Chain 3	Total Power (mW)	Total Power (dBm)	Limit
11a	1	5720	12.85	---	---	---	19.262	12.85	22.66
HT20	2	5720	12.04	11.63	---	---	30.556	14.85	22.29
HT40	2	5710	8.98	8.89	---	---	15.657	11.95	24.00
VHT20	2	5720	11.90	11.35	---	---	29.103	14.64	22.29
VHT40	2	5710	9.08	9.10	---	---	16.206	12.10	24.00
VHT80	2	5690	5.67	6.28	---	---	7.931	8.99	24.00



Note: Above plots are without duty factor.

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	16.55	---	---	---	45.186	16.55	30.00
11a	1	5785	16.64	---	---	---	46.132	16.64	30.00
11a	1	5825	16.35	---	---	---	43.152	16.35	30.00
HT20	2	5745	15.95	15.63	---	---	75.914	18.80	30.00
HT20	2	5785	16.29	15.78	---	---	80.404	19.05	30.00
HT20	2	5825	14.59	14.65	---	---	57.948	17.63	30.00
HT40	2	5755	13.59	13.63	---	---	45.923	16.62	30.00
HT40	2	5795	16.79	16.84	---	---	96.059	19.83	30.00
VHT20	2	5745	16.03	15.68	---	---	77.069	18.87	30.00
VHT20	2	5785	16.38	15.83	---	---	81.733	19.12	30.00
VHT20	2	5825	14.66	14.73	---	---	58.958	17.71	30.00
VHT40	2	5755	13.65	13.71	---	---	46.670	16.69	30.00
VHT40	2	5795	16.89	16.92	---	---	98.069	19.92	30.00
VHT80	2	5775	12.95	13.11	---	---	40.189	16.04	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, 5250~5350 MHz, 5470~5725 MHz

☐ Method SA-1

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

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

For 5725~5850 MHz

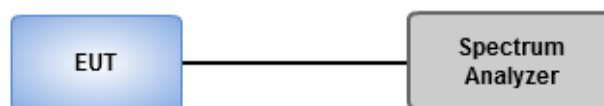
☐ Method SA-1

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

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

3.4.3 Test Setup

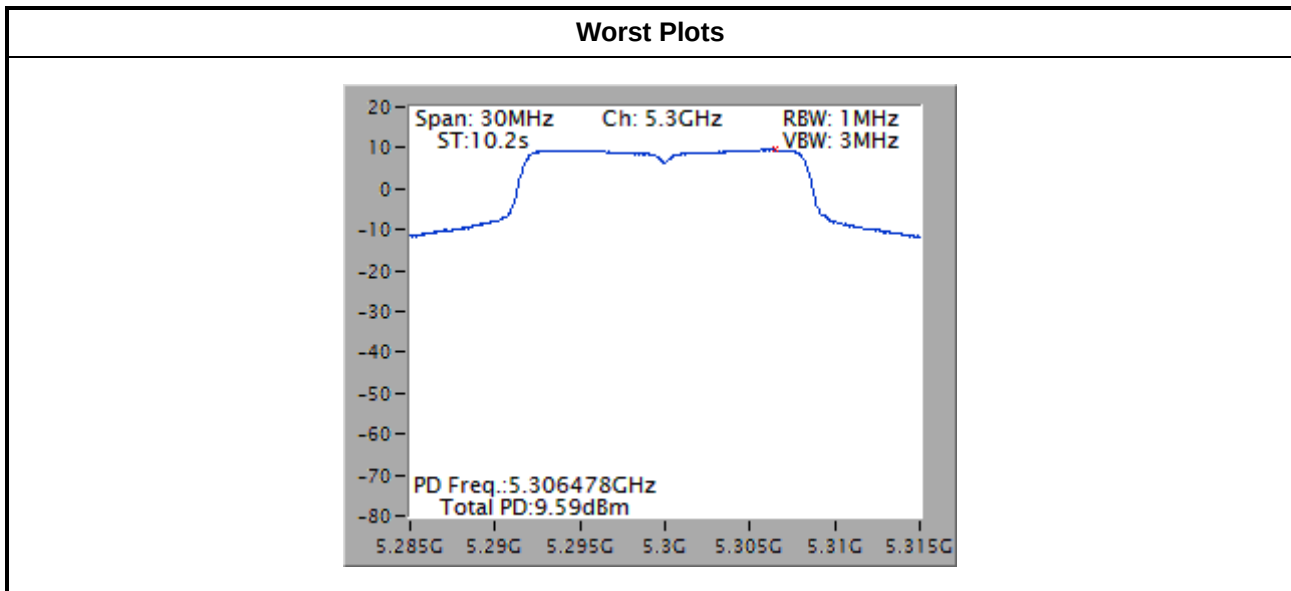


3.4.4 Test Result of Peak Power Spectral Density

Frequency band			5150~5250 MHz / 5250~5350 MHz			
Condition			Peak Power Spectral Density (dBm)			
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	5.31	0.20	5.51	11
11a	1	5200	8.94	0.20	9.14	11
11a	1	5240	9.15	0.20	9.35	11
VHT20	2	5180	6.30	0.30	6.60	11
VHT20	2	5200	8.34	0.30	8.64	11
VHT20	2	5240	9.00	0.30	9.30	11
VHT40	2	5190	1.04	1.43	2.47	11
VHT40	2	5230	6.40	1.43	7.83	11
VHT80	2	5210	-2.37	1.72	-0.65	11
11a	1	5260	9.31	0.20	9.51	11
11a	1	5300	9.59	0.20	9.79	11
11a	1	5320	6.63	0.20	6.83	11
VHT20	2	5260	7.59	0.30	7.89	11
VHT20	2	5300	4.85	0.30	5.15	11
VHT20	2	5320	3.76	0.30	4.06	11
VHT40	2	5270	6.51	1.43	7.94	11
VHT40	2	5310	0.47	1.43	1.90	11
VHT80	2	5290	-3.30	1.72	-1.58	11

Frequency band			547~5725 MHz			
Condition			Peak Power Spectral Density (dBm)			
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm)	Duty Factor (dB)	PPSD with D.F (dBm)	PPSD Limit (dBm)
11a	1	5500	6.01	0.20	6.21	11
11a	1	5580	7.27	0.20	7.47	11
11a	1	5700	5.26	0.20	5.46	11
11a	1	5720	6.86	0.20	7.06	11
VHT20	2	5500	5.88	0.30	6.18	11
VHT20	2	5580	6.51	0.30	6.81	11
VHT20	2	5700	5.70	0.30	6.00	11
VHT20	2	5720	7.73	0.30	8.03	11
VHT40	2	5510	-0.33	1.43	1.10	11
VHT40	2	5590	3.64	1.43	5.07	11
VHT40	2	5670	4.49	1.43	5.92	11
VHT40	2	5710	5.48	1.43	6.91	11
VHT80	2	5530	-5.39	1.72	-3.67	11
VHT80	2	5610	1.40	1.72	3.12	11
VHT80	2	5690	3.00	1.72	4.72	11

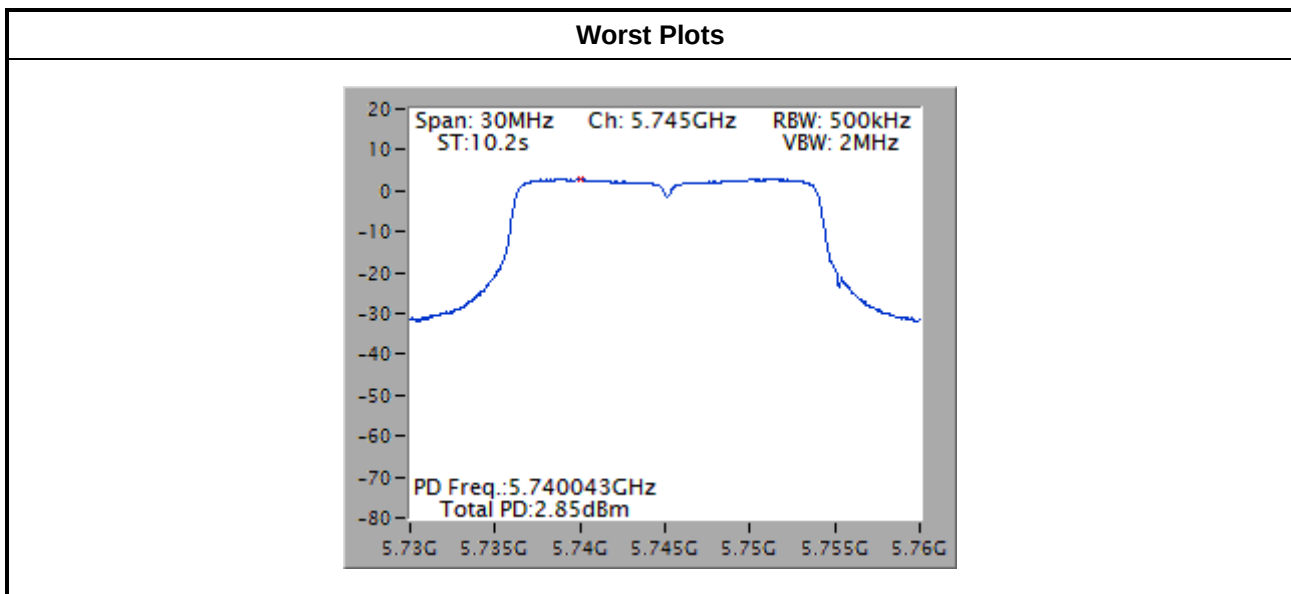
Note: D.F is duty factor.



Note: Power density plot without duty factor.

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	1.67	0.20	1.87	30.00
11a	1	5785	1.94	0.20	2.14	30.00
11a	1	5825	1.74	0.20	1.94	30.00
VHT20	2	5745	2.85	0.30	3.15	30.00
VHT20	2	5785	2.84	0.30	3.14	30.00
VHT20	2	5825	2.09	0.30	2.39	30.00
VHT40	2	5755	-2.54	1.43	-1.11	30.00
VHT40	2	5795	0.87	1.43	2.30	30.00
VHT80	2	5775	-5.47	1.72	-3.75	30.00

Note: D.F is duty factor.



Note: Power density plot without duty factor.

3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

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

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 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] 5.825 5.835 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

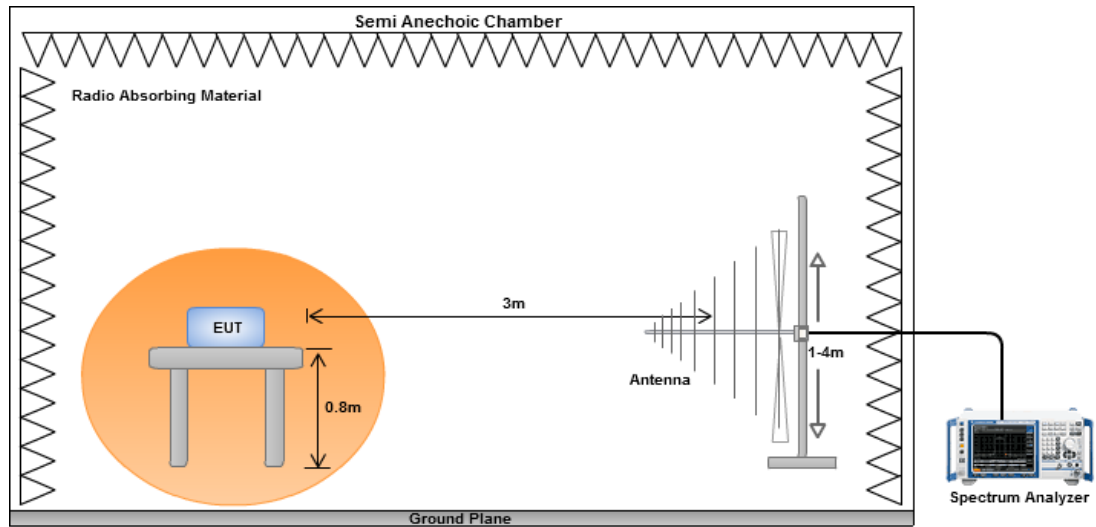
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

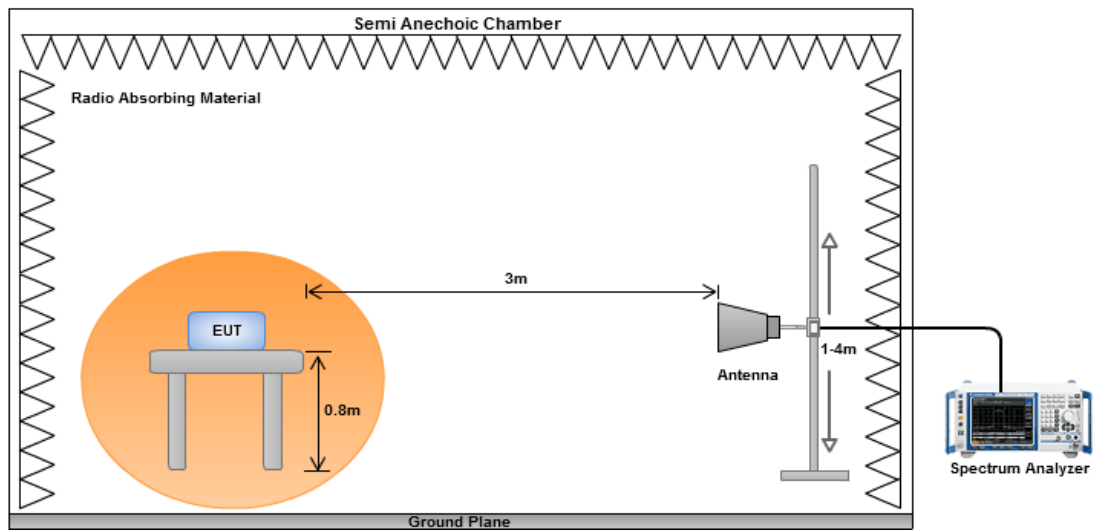
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz

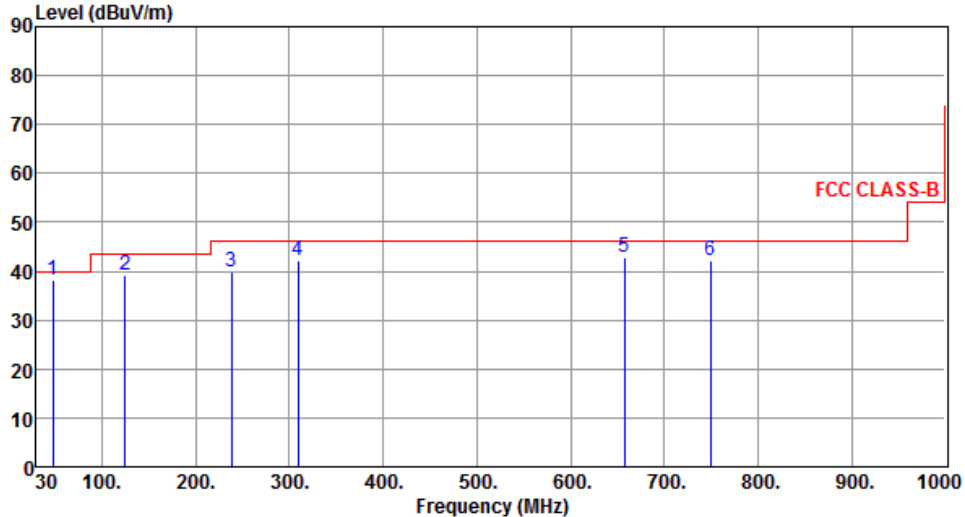


Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

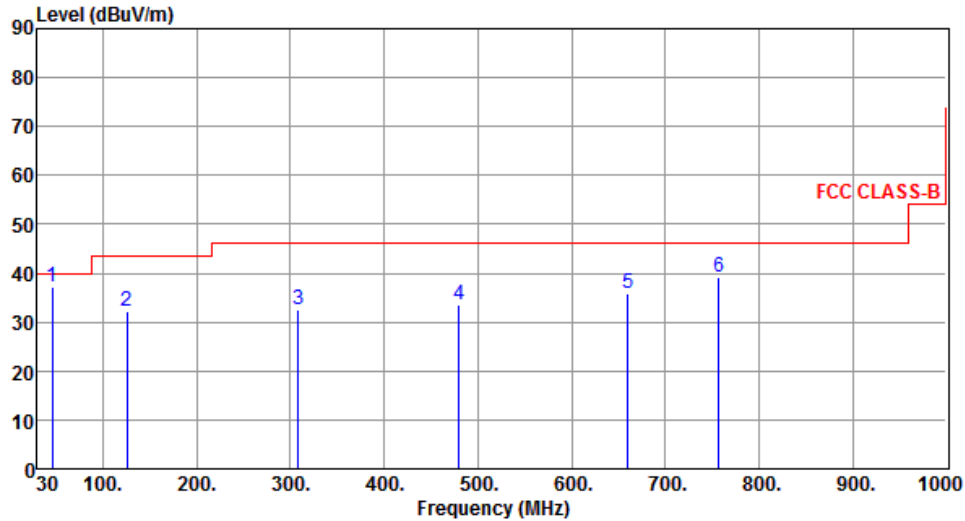
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	47.53	38.12	40.00	-1.88	51.22	-13.10	QP	---	---
2	125.06	39.13	43.50	-4.37	54.33	-15.20	QP	---	---
3	238.55	39.91	46.00	-6.09	54.74	-14.83	Peak	---	---
4	309.36	42.28	46.00	-3.72	54.71	-12.43	Peak	---	---
5	657.59	42.77	46.00	-3.23	47.66	-4.89	Peak	---	---
6	749.74	42.23	46.00	-3.77	45.48	-3.25	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	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.23	37.09	40.00	-2.91	50.25	-13.16	QP	---	---
2	126.03	32.12	43.50	-11.38	47.23	-15.11	Peak	---	---
3	308.39	32.56	46.00	-13.44	45.03	-12.47	Peak	---	---
4	480.08	33.69	46.00	-12.31	41.99	-8.30	Peak	---	---
5	660.50	35.97	46.00	-10.03	40.82	-4.85	Peak	---	---
6	757.50	39.18	46.00	-6.82	42.31	-3.13	Peak	---	---

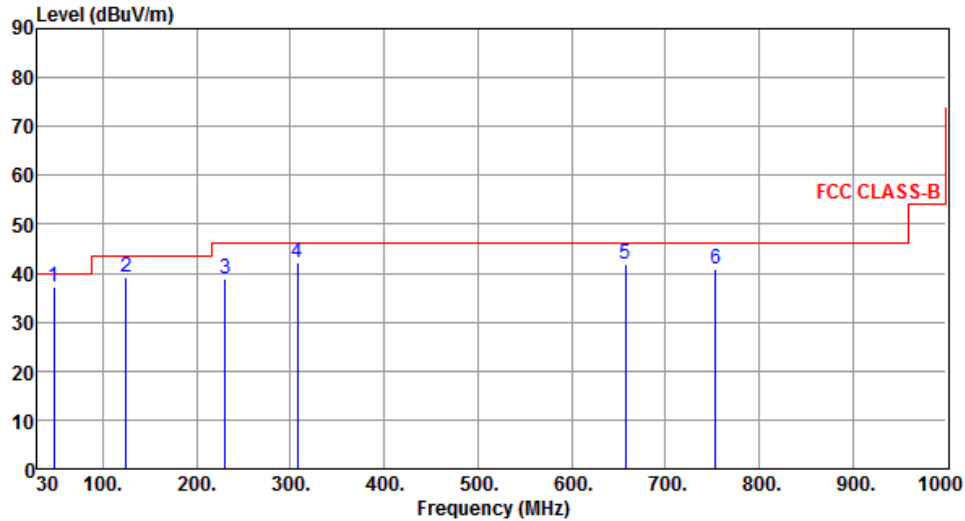
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

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

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	47.30	37.24	40.00	-2.76	50.36	-13.12	QP	---	---
2	125.02	39.17	43.50	-4.33	54.38	-15.21	QP	---	---
3	230.79	38.90	46.00	-7.10	54.20	-15.30	Peak	---	---
4	307.42	42.02	46.00	-3.98	54.51	-12.49	Peak	---	---
5	657.59	41.69	46.00	-4.31	46.58	-4.89	Peak	---	---
6	753.62	40.88	46.00	-5.12	44.07	-3.19	Peak	---	---

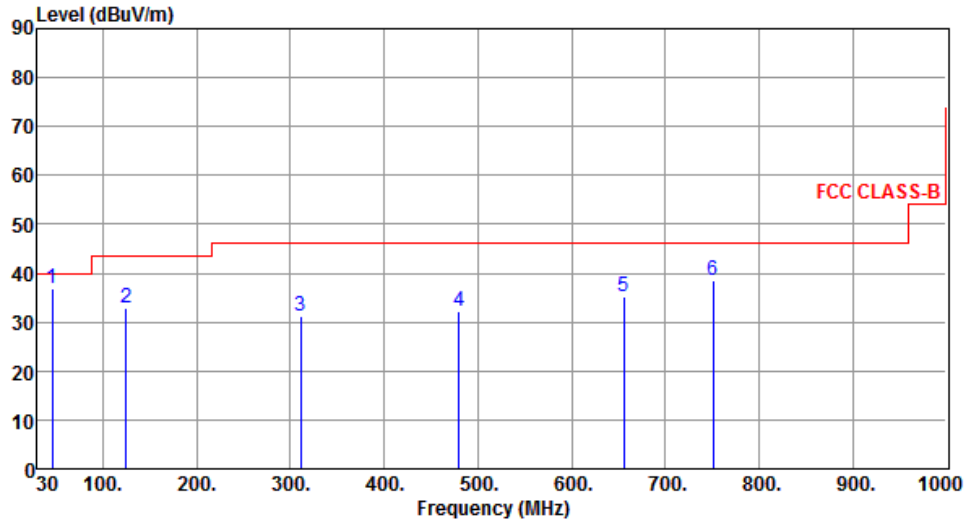
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.25	36.99	40.00	-3.01	50.15	-13.16	QP	---	---
2	125.06	33.04	43.50	-10.46	48.24	-15.20	Peak	---	---
3	311.30	31.37	46.00	-14.63	43.76	-12.39	Peak	---	---
4	480.08	32.12	46.00	-13.88	40.42	-8.30	Peak	---	---
5	655.65	35.26	46.00	-10.74	40.19	-4.93	Peak	---	---
6	750.71	38.44	46.00	-7.56	41.68	-3.24	Peak	---	---

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

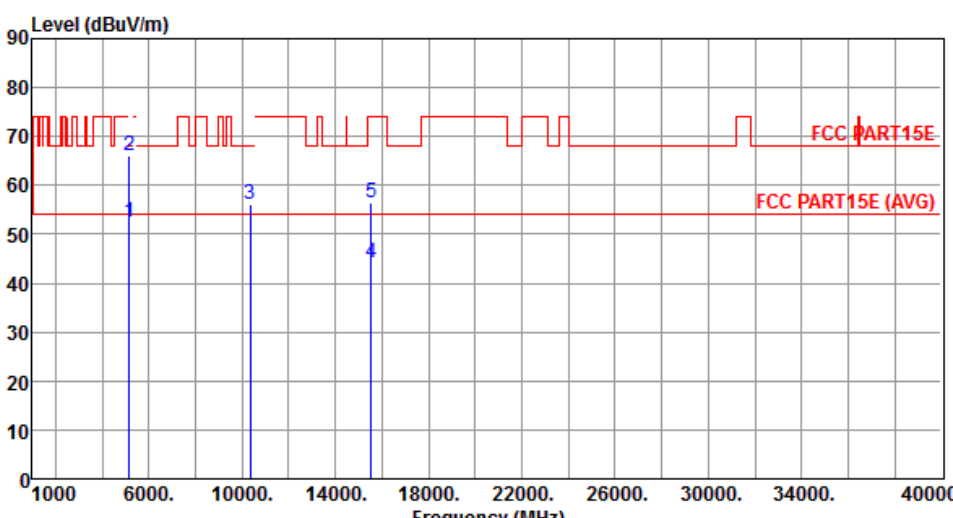
*Factor includes antenna factor , cable loss and amplifier gain

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

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

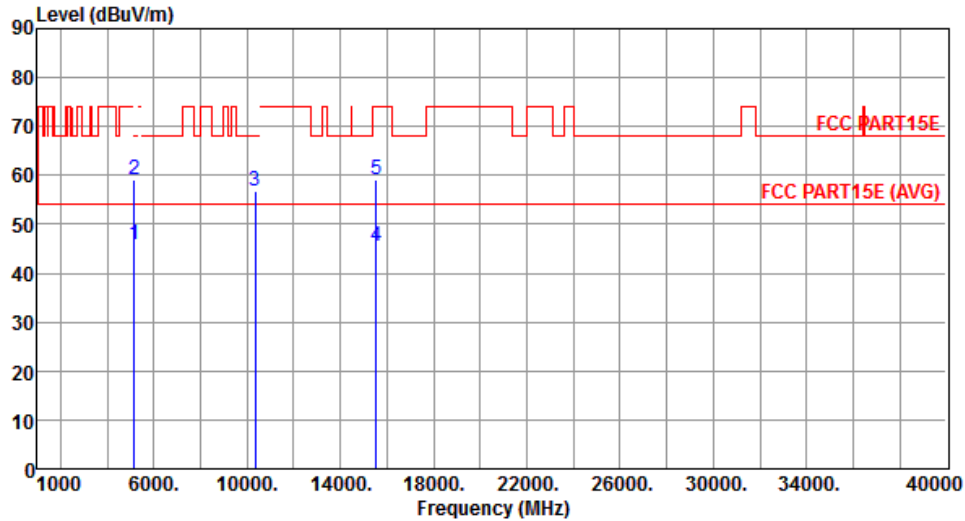
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal	Transmit Chains (NTX)	1Tx



	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	52.53	54.00	-1.47	46.36	6.17	Average	---	---
2	5150.00	66.24	74.00	-7.76	60.07	6.17	Peak	---	---
3	10360.00	55.99	68.20	-12.21	39.07	16.92	Peak	---	---
4	15540.00	44.11	54.00	-9.89	26.19	17.92	Average	---	---
5	15540.00	56.46	74.00	-17.54	38.54	17.92	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	Transmit Chains (NTX)	1Tx



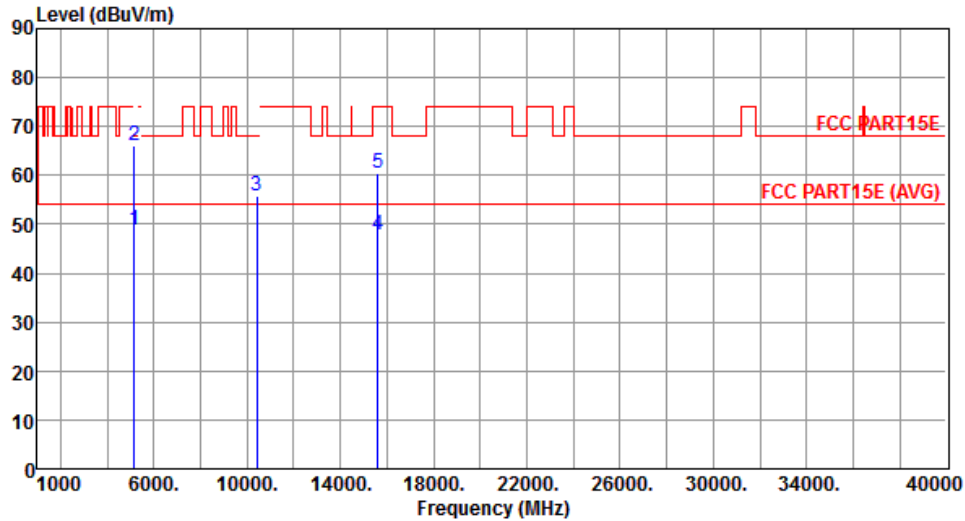
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.99	54.00	-8.01	39.82	6.17	Average	---	---
2	5150.00	59.03	74.00	-14.97	52.86	6.17	Peak	---	---
3	10360.00	56.71	68.20	-11.49	39.79	16.92	Peak	---	---
4	15540.00	45.58	54.00	-8.42	27.66	17.92	Average	---	---
5	15540.00	58.97	74.00	-15.03	41.05	17.92	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	Transmit Chains (NTX)	1Tx



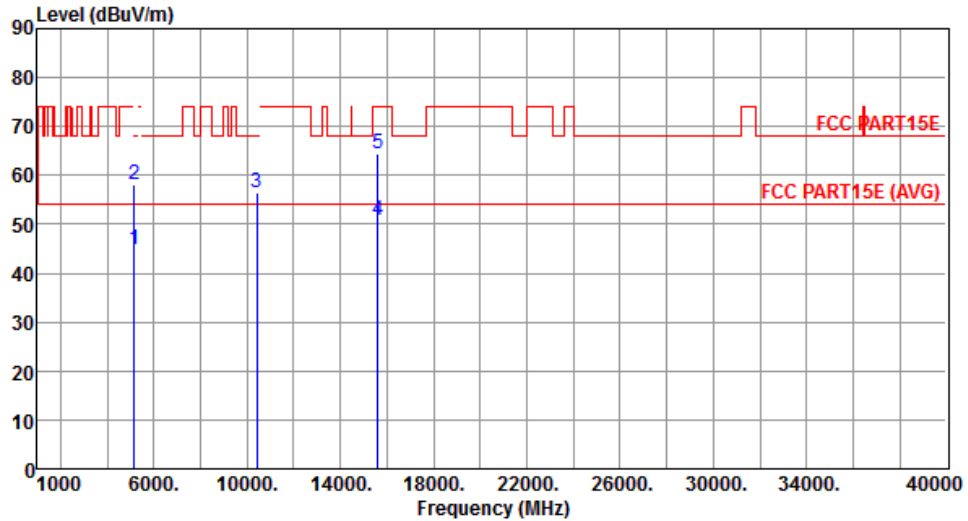
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.98	54.00	-5.02	42.81	6.17	Average	---	---
2	5150.00	65.96	74.00	-8.04	59.79	6.17	Peak	---	---
3	10400.00	55.83	68.20	-12.37	38.79	17.04	Peak	---	---
4	15600.00	47.73	54.00	-6.27	29.96	17.77	Average	---	---
5	15600.00	60.53	74.00	-13.47	42.76	17.77	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	Transmit Chains (NTX)	1Tx



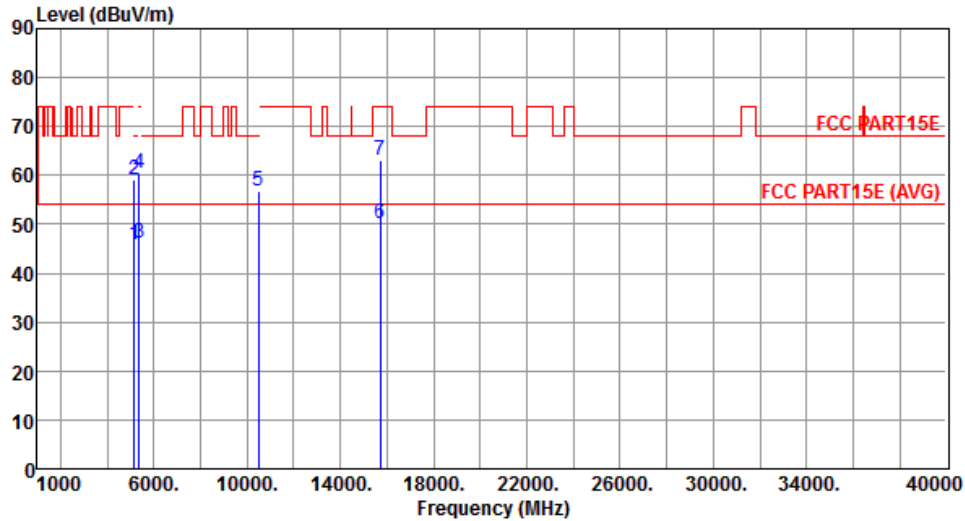
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.89	54.00	-9.11	38.72	6.17	Average	---	---
2	5150.00	58.14	74.00	-15.86	51.97	6.17	Peak	---	---
3	10400.00	56.49	68.20	-11.71	39.45	17.04	Peak	---	---
4	15600.00	50.86	54.00	-3.14	33.09	17.77	Average	---	---
5	15600.00	64.31	74.00	-9.69	46.54	17.77	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	Transmit Chains (NTX)	1Tx



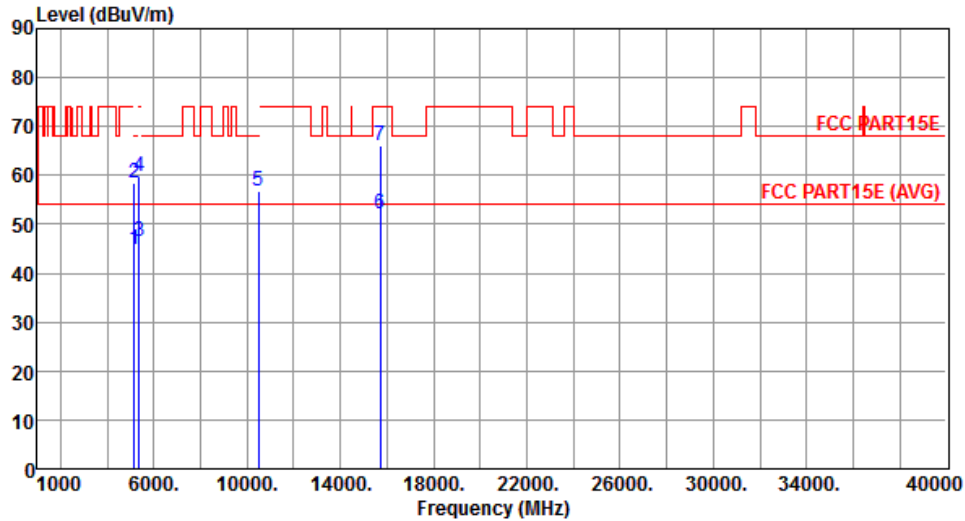
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.73	54.00	-8.27	39.56	6.17	Average	---	---
2	5150.00	59.03	74.00	-14.97	52.86	6.17	Peak	---	---
3	5350.00	46.23	54.00	-7.77	39.73	6.50	Average	---	---
4	5350.00	60.30	74.00	-13.70	53.80	6.50	Peak	---	---
5	10480.00	56.94	68.20	-11.26	39.66	17.28	Peak	---	---
6	15720.00	49.99	54.00	-4.01	32.51	17.48	Average	---	---
7	15720.00	63.22	74.00	-10.78	45.74	17.48	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	Transmit Chains (NTX)	1Tx



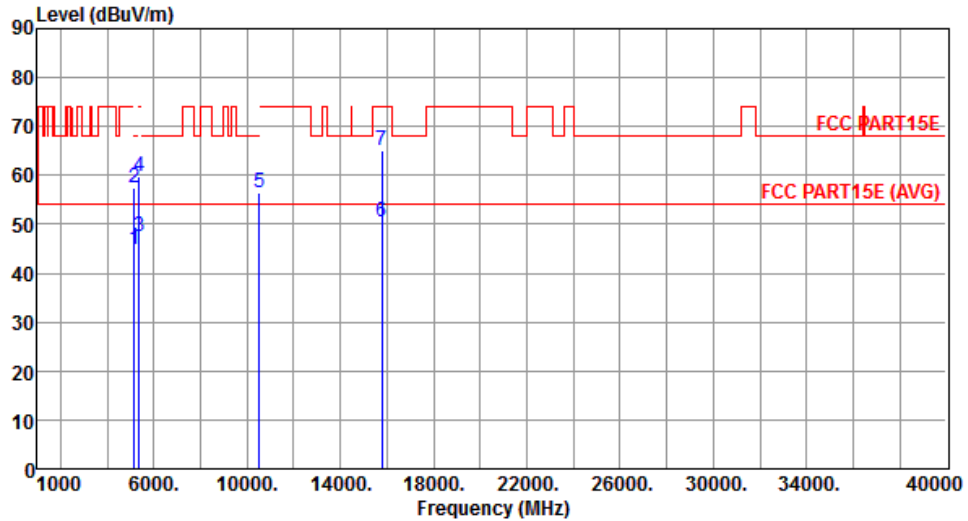
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.88	54.00	-9.12	38.71	6.17	Average	---	---
2	5150.00	58.35	74.00	-15.65	52.18	6.17	Peak	---	---
3	5350.00	46.42	54.00	-7.58	39.92	6.50	Average	---	---
4	5350.00	59.93	74.00	-14.07	53.43	6.50	Peak	---	---
5	10480.00	56.88	68.20	-11.32	39.60	17.28	Peak	---	---
6	15720.00	52.15	54.00	-1.85	34.67	17.48	Average	---	---
7	15720.00	66.00	74.00	-8.00	48.52	17.48	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)	5260
Polarization	Horizontal	Transmit Chains (NTX)	1Tx



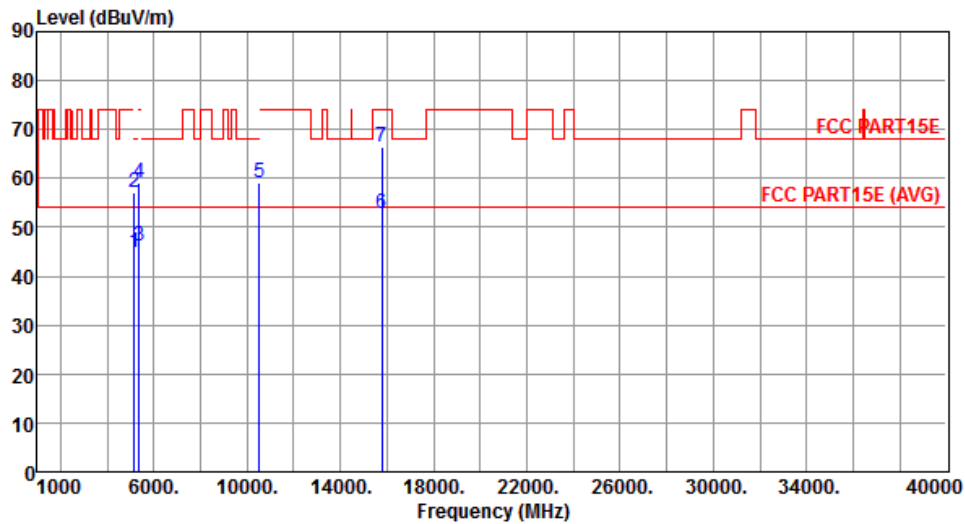
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.96	54.00	-9.04	38.79	6.17	Average	---	---
2	5150.00	57.38	74.00	-16.62	51.21	6.17	Peak	---	---
3	5350.00	47.37	54.00	-6.63	40.87	6.50	Average	---	---
4	5350.00	59.86	74.00	-14.14	53.36	6.50	Peak	---	---
5	10520.00	56.56	68.20	-11.64	39.20	17.36	Peak	---	---
6	15780.00	50.54	54.00	-3.46	33.20	17.34	Average	---	---
7	15780.00	65.02	74.00	-8.98	47.68	17.34	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)	5260
Polarization	Vertical	Transmit Chains (NTX)	1Tx



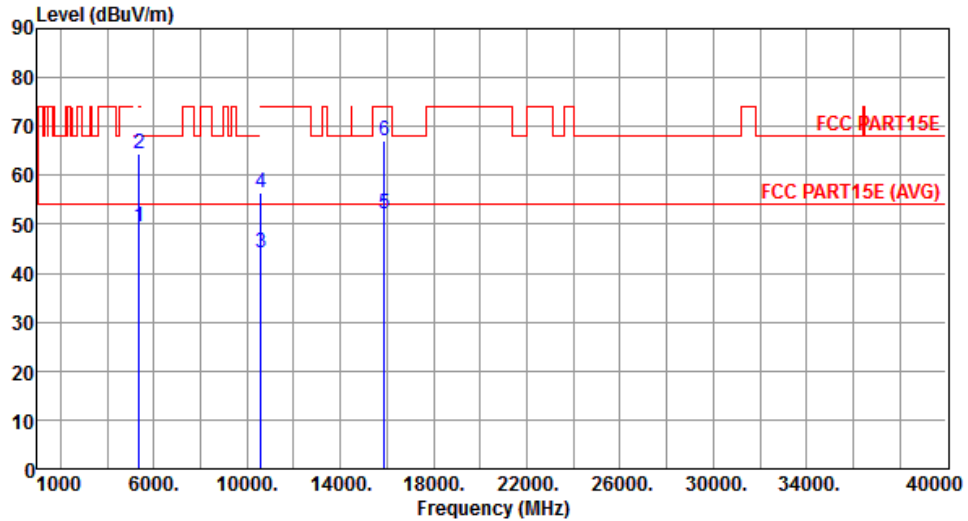
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.83	54.00	-9.17	38.66	6.17	Average	---	---
2	5150.00	57.07	74.00	-16.93	50.90	6.17	Peak	---	---
3	5350.00	46.26	54.00	-7.74	39.76	6.50	Average	---	---
4	5350.00	59.18	74.00	-14.82	52.68	6.50	Peak	---	---
5	10520.00	59.24	68.20	-8.96	41.88	17.36	Peak	---	---
6	15780.00	52.82	54.00	-1.18	35.48	17.34	Average	---	---
7	15780.00	66.54	74.00	-7.46	49.20	17.34	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)	5300
Polarization	Horizontal	Transmit Chains (NTX)	1Tx



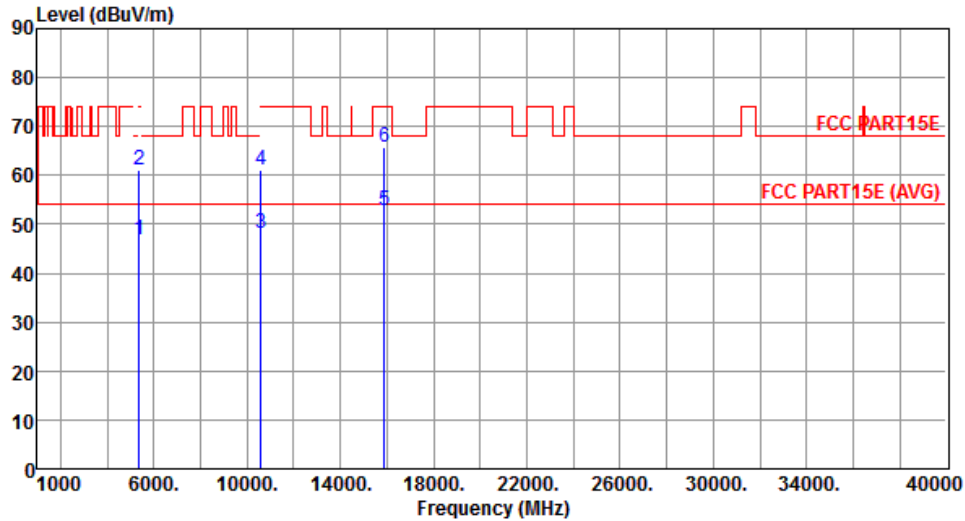
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.64	54.00	-4.36	43.14	6.50	Average	---	---
2	5350.00	64.34	74.00	-9.66	57.84	6.50	Peak	---	---
3	10600.00	44.12	54.00	-9.88	26.65	17.47	Average	---	---
4	10600.00	56.35	74.00	-17.65	38.88	17.47	Peak	---	---
5	15900.00	52.08	54.00	-1.92	35.03	17.05	Average	---	---
6	15900.00	66.99	74.00	-7.01	49.94	17.05	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)	5300
Polarization	Vertical	Transmit Chains (NTX)	1Tx



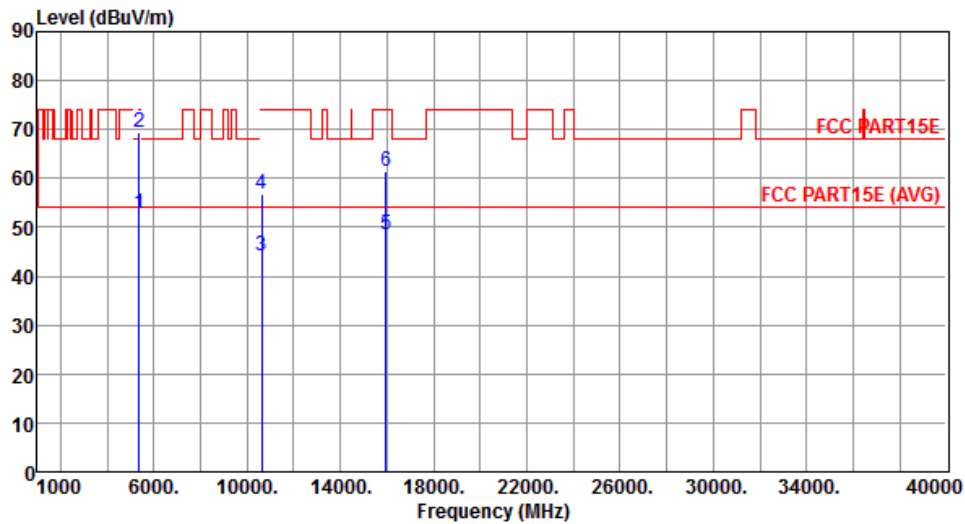
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.93	54.00	-7.07	40.43	6.50	Average	---	---
2	5350.00	61.01	74.00	-12.99	54.51	6.50	Peak	---	---
3	10600.00	48.06	54.00	-5.94	30.59	17.47	Average	---	---
4	10600.00	60.99	74.00	-13.01	43.52	17.47	Peak	---	---
5	15900.00	52.64	54.00	-1.36	35.59	17.05	Average	---	---
6	15900.00	65.75	74.00	-8.25	48.70	17.05	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)	5320
Polarization	Horizontal	Transmit Chains (NTX)	1Tx



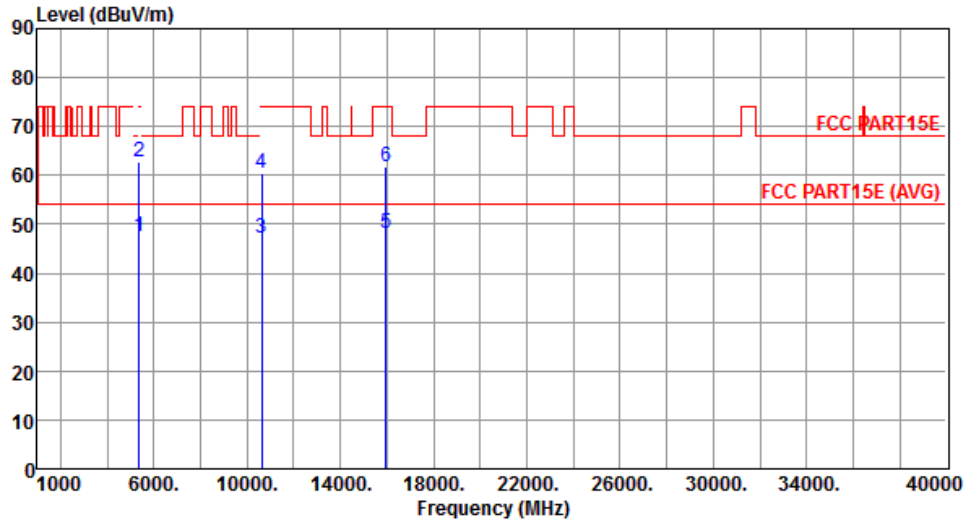
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.84	54.00	-1.16	46.34	6.50	Average	---	---
2	5350.00	69.50	74.00	-4.50	63.00	6.50	Peak	---	---
3	10640.00	44.28	54.00	-9.72	26.76	17.52	Average	---	---
4	10640.00	56.85	74.00	-17.15	39.33	17.52	Peak	---	---
5	15960.00	48.35	54.00	-5.65	31.45	16.90	Average	---	---
6	15960.00	61.40	74.00	-12.60	44.50	16.90	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)	5320
Polarization	Vertical	Transmit Chains (NTX)	1Tx



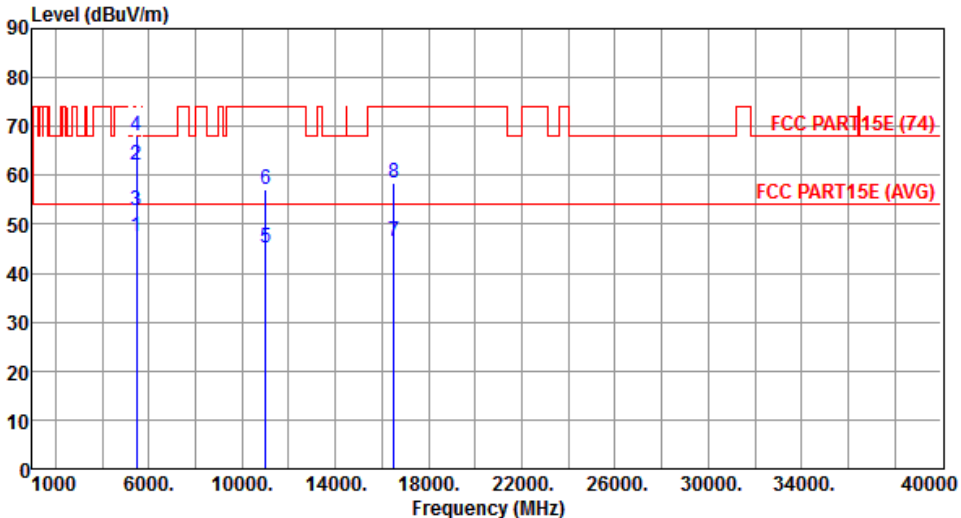
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.63	54.00	-6.37	41.13	6.50	Average	---	---
2	5350.00	62.77	74.00	-11.23	56.27	6.50	Peak	---	---
3	10640.00	47.08	54.00	-6.92	29.56	17.52	Average	---	---
4	10640.00	60.33	74.00	-13.67	42.81	17.52	Peak	---	---
5	15960.00	48.26	54.00	-5.74	31.36	16.90	Average	---	---
6	15960.00	61.92	74.00	-12.08	45.02	16.90	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).

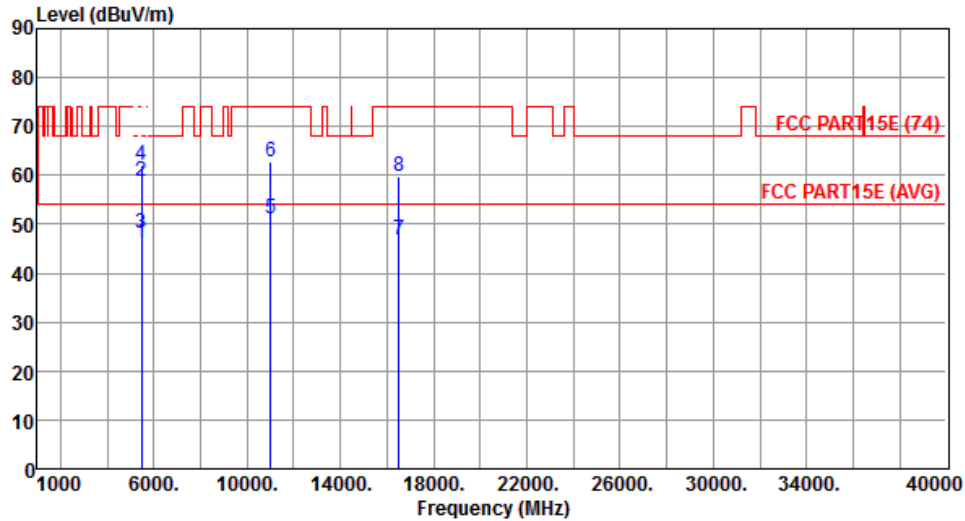
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal	Transmit Chains (NTX)	1Tx



	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	47.65	54.00	-6.35	40.98	6.67	Average	---	---
2	5460.00	62.10	74.00	-11.90	55.43	6.67	Peak	---	---
3	5470.00	52.73	54.00	-1.27	46.04	6.69	Average	---	---
4	5470.00	68.06	74.00	-5.94	61.37	6.69	Peak	---	---
5	11000.00	45.08	54.00	-8.92	27.11	17.97	Average	---	---
6	11000.00	57.10	74.00	-16.90	39.13	17.97	Peak	---	---
7	16500.00	46.53	54.00	-7.47	28.22	18.31	Average	---	---
8	16500.00	58.56	74.00	-15.44	40.25	18.31	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)	5500
Polarization	Vertical	Transmit Chains (NTX)	1Tx



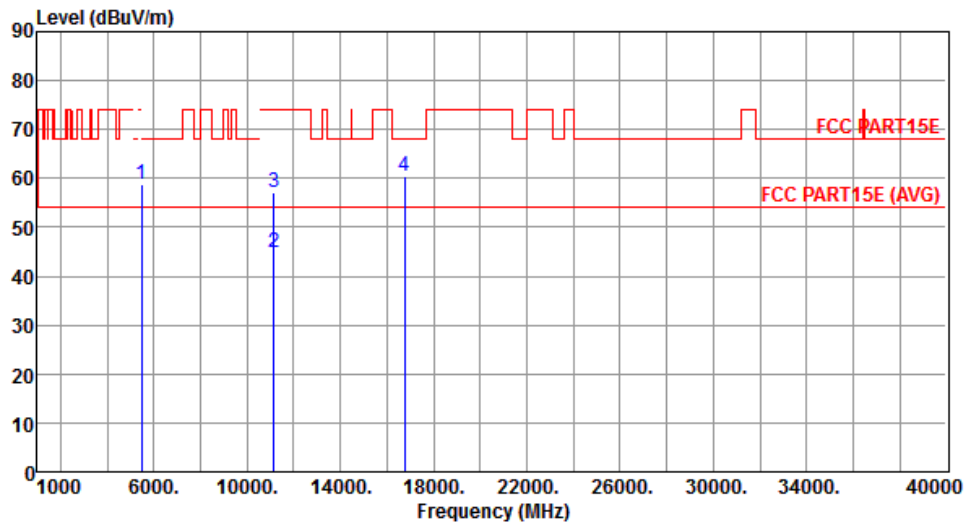
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.24	54.00	-7.76	39.57	6.67	Average	---	---
2	5460.00	58.85	74.00	-15.15	52.18	6.67	Peak	---	---
3	5470.00	48.01	54.00	-5.99	41.32	6.69	Average	---	---
4	5470.00	62.04	74.00	-11.96	55.35	6.69	Peak	---	---
5	11000.00	51.06	54.00	-2.94	33.09	17.97	Average	---	---
6	11000.00	62.68	74.00	-11.32	44.71	17.97	Peak	---	---
7	16500.00	46.68	54.00	-7.32	28.37	18.31	Average	---	---
8	16500.00	59.66	74.00	-14.34	41.35	18.31	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)	5580
Polarization	Horizontal	Transmit Chains (NTX)	1Tx



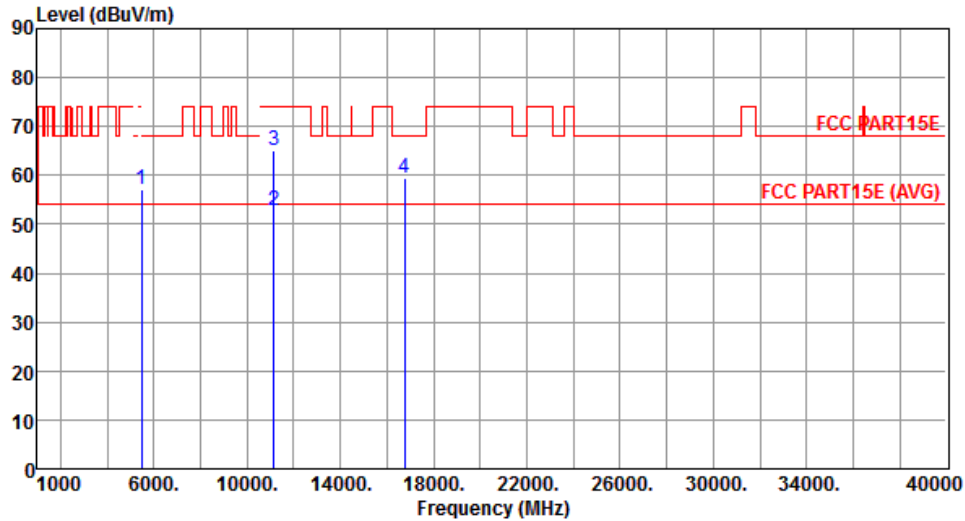
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	58.67	68.20	-9.53	51.98	6.69	Peak	---	---
2	11160.00	44.87	54.00	-9.13	27.15	17.72	Average	---	---
3	11160.00	57.11	74.00	-16.89	39.39	17.72	Peak	---	---
4	16740.00	60.39	68.20	-7.81	42.22	18.17	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)	5580
Polarization	Vertical	Transmit Chains (NTX)	1Tx



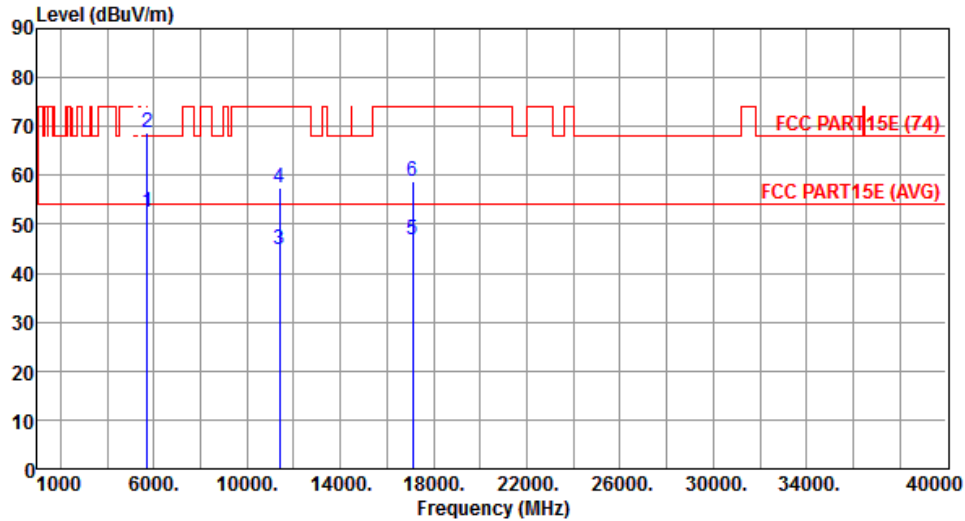
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	57.07	68.20	-11.13	50.38	6.69	Peak	---	---
2	11160.00	52.78	54.00	-1.22	35.06	17.72	Average	---	---
3	11160.00	64.97	74.00	-9.03	47.25	17.72	Peak	---	---
4	16740.00	59.56	68.20	-8.64	41.39	18.17	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)	5700
Polarization	Horizontal	Transmit Chains (NTX)	1Tx



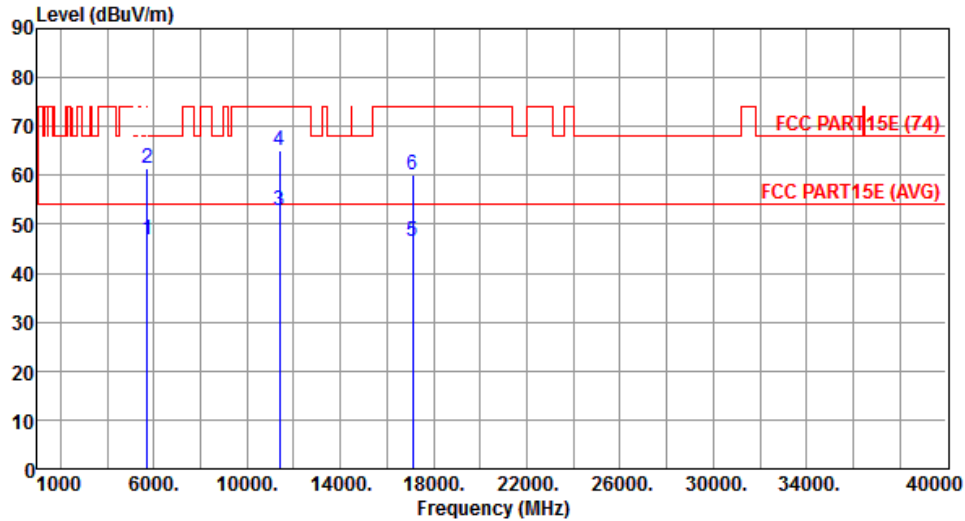
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.60	54.00	-1.40	45.53	7.07	Average	---	---
2	5725.00	68.76	74.00	-5.24	61.69	7.07	Peak	---	---
3	11400.00	44.71	54.00	-9.29	27.35	17.36	Average	---	---
4	11400.00	57.38	74.00	-16.62	40.02	17.36	Peak	---	---
5	17100.00	46.83	54.00	-7.17	28.35	18.48	Average	---	---
6	17100.00	58.95	74.00	-15.05	40.47	18.48	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)	5700
Polarization	Vertical	Transmit Chains (NTX)	1Tx



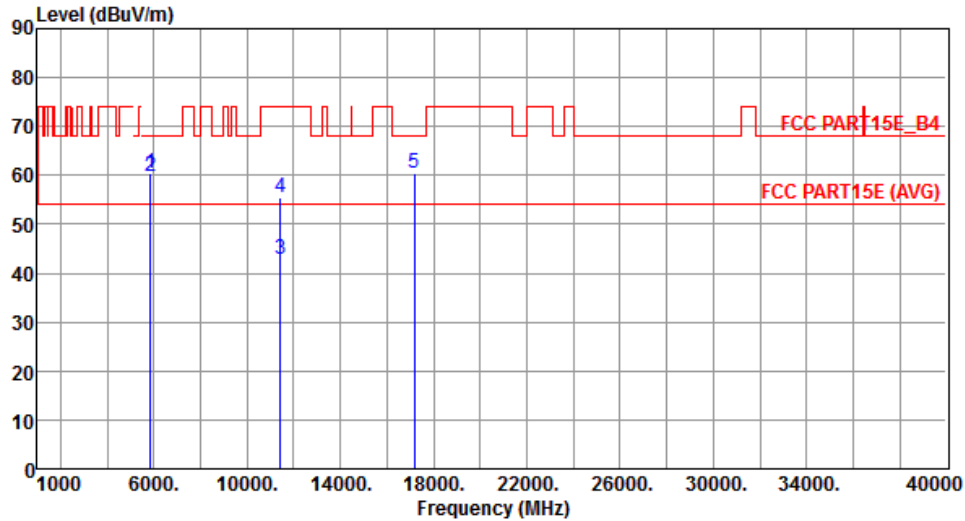
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	46.82	54.00	-7.18	39.75	7.07	Average	---	---
2	5725.00	61.40	74.00	-12.60	54.33	7.07	Peak	---	---
3	11400.00	52.67	54.00	-1.33	35.31	17.36	Average	---	---
4	11400.00	65.04	74.00	-8.96	47.68	17.36	Peak	---	---
5	17100.00	46.54	54.00	-7.46	28.06	18.48	Average	---	---
6	17100.00	59.99	74.00	-14.01	41.51	18.48	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)	5720
Polarization	Horizontal	Transmit Chains (N _{TX})	1Tx



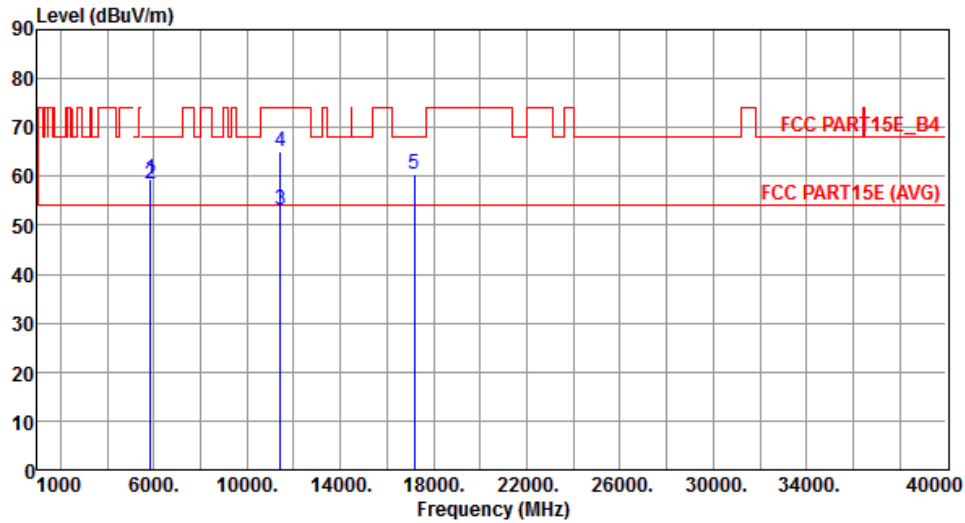
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	60.42	78.20	-17.78	53.20	7.22	Peak	---	---
2	5860.00	59.73	68.20	-8.47	52.50	7.23	Peak	---	---
3	11440.00	42.77	54.00	-11.23	25.47	17.30	Average	---	---
4	11440.00	55.34	74.00	-18.66	38.04	17.30	Peak	---	---
5	17160.00	60.39	68.20	-7.81	41.64	18.75	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)	5720
Polarization	Vertical	Transmit Chains (N _{TX})	1Tx



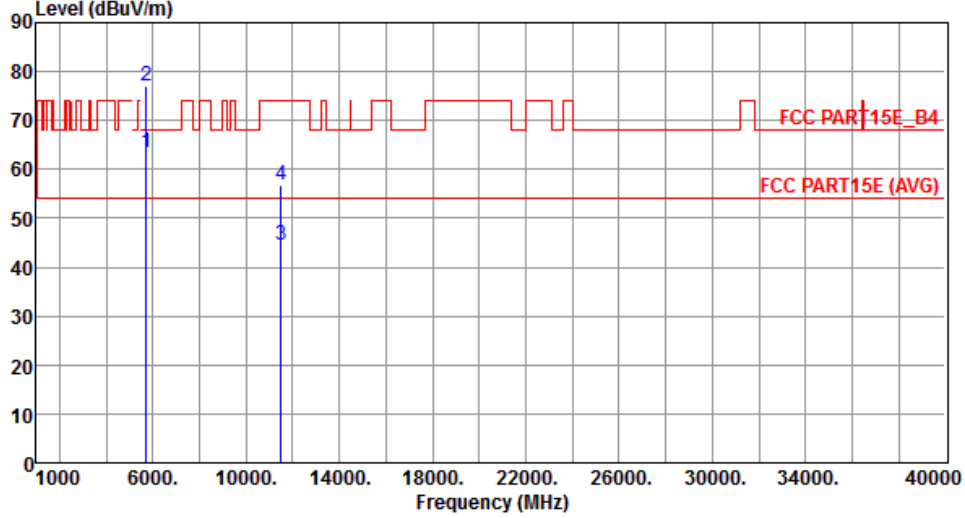
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	59.33	78.20	-18.87	52.11	7.22	Peak	---	---
2	5860.00	58.47	68.20	-9.73	51.24	7.23	Peak	---	---
3	11440.00	52.99	54.00	-1.01	35.69	17.30	Average	---	---
4	11440.00	65.20	74.00	-8.80	47.90	17.30	Peak	---	---
5	17160.00	60.30	68.20	-7.90	41.55	18.75	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	Transmit Chains (N _{TX})	1Tx



	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	63.30	68.20	-4.90	56.23	7.07	Peak	---	---
2	5725.00	76.91	78.20	-1.29	69.84	7.07	Peak	---	---
3	11490.00	44.48	54.00	-9.52	27.26	17.22	Average	---	---
4	11490.00	56.88	74.00	-17.12	39.66	17.22	Peak	---	---

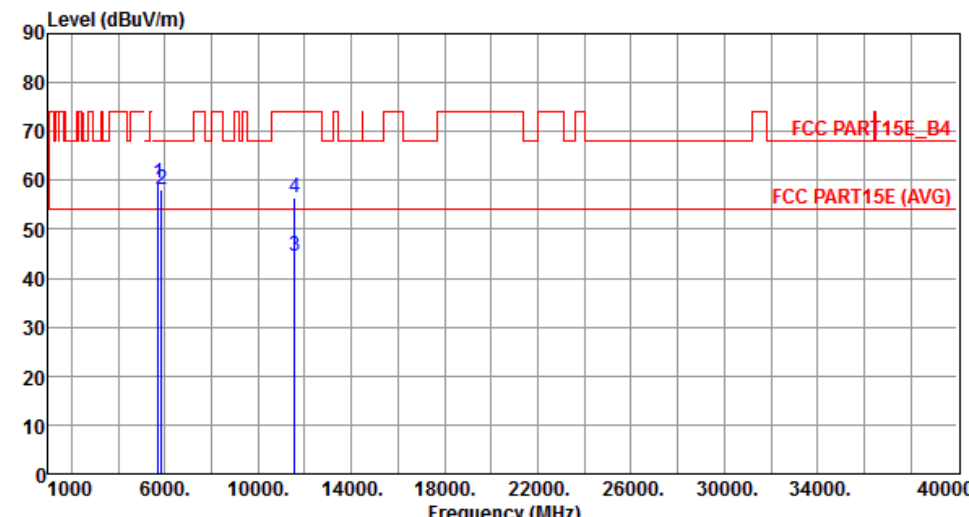
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical	Transmit Chains (N _{TX})	1Tx

	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	58.19	68.20	-10.01	51.12	7.07	Peak	---	---
2	5725.00	70.93	78.20	-7.27	63.86	7.07	Peak	---	---
3	11490.00	51.29	54.00	-2.71	34.07	17.22	Average	---	---
4	11490.00	63.34	74.00	-10.66	46.12	17.22	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).

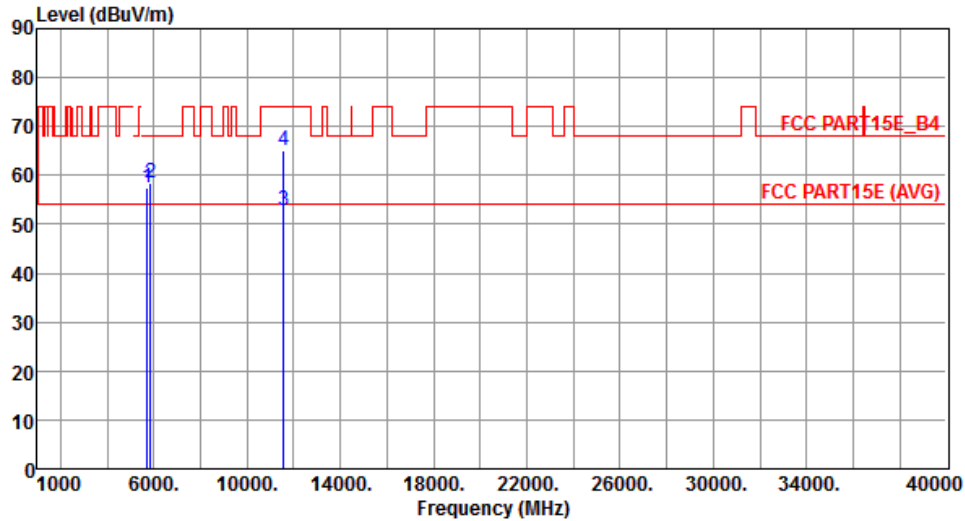
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal	Transmit Chains (N _{TX})	1Tx



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	59.48	78.20	-18.72	52.41	7.07	Peak	---	---
2	5850.00	58.26	78.20	-19.94	51.04	7.22	Peak	---	---
3	11570.00	44.49	54.00	-9.51	27.41	17.08	Average	---	---
4	11570.00	56.54	74.00	-17.46	39.46	17.08	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	Transmit Chains (N _{TX})	1Tx



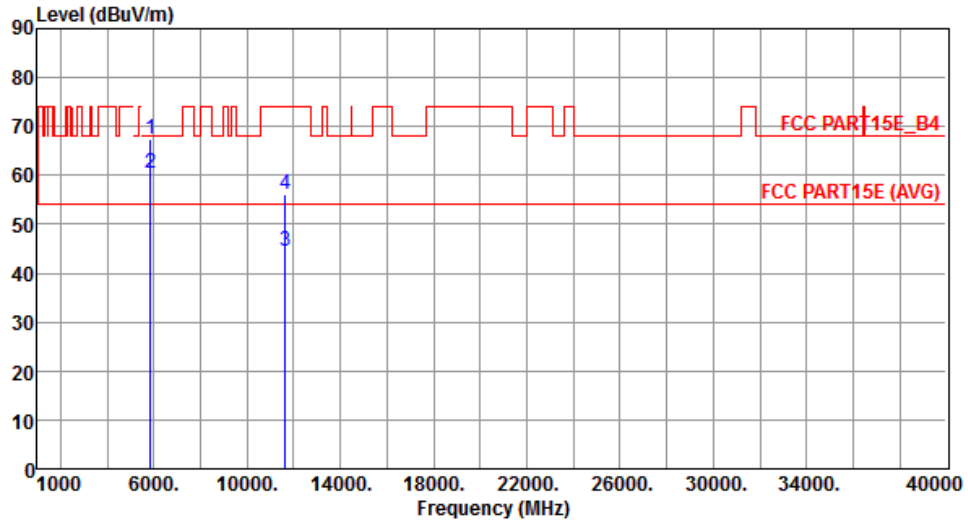
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	57.54	78.20	-20.66	50.47	7.07	Peak	---	---
2	5850.00	58.48	78.20	-19.72	51.26	7.22	Peak	---	---
3	11570.00	52.95	54.00	-1.05	35.87	17.08	Average	---	---
4	11570.00	65.16	74.00	-8.84	48.08	17.08	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	Transmit Chains (N _{TX})	1Tx



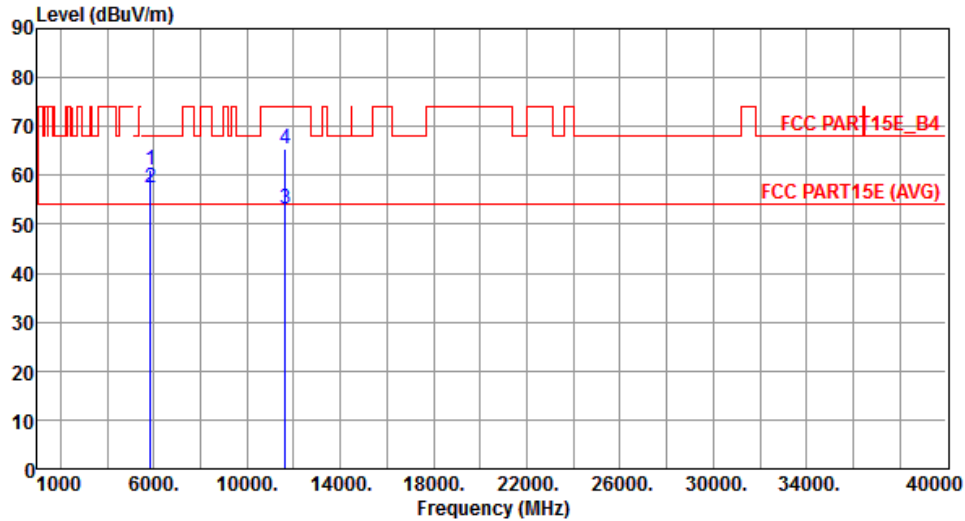
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	67.40	78.20	-10.80	60.18	7.22	Peak	---	---
2	5860.00	60.56	68.20	-7.64	53.33	7.23	Peak	---	---
3	11650.00	44.58	54.00	-9.42	27.65	16.93	Average	---	---
4	11650.00	56.14	74.00	-17.86	39.21	16.93	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	Transmit Chains (N _{TX})	1Tx



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	61.13	78.20	-17.07	53.91	7.22	Peak	---	---
2	5860.00	57.56	68.20	-10.64	50.33	7.23	Peak	---	---
3	11650.00	52.98	54.00	-1.02	36.05	16.93	Average	---	---
4	11650.00	65.39	74.00	-8.61	48.46	16.93	Peak	---	---

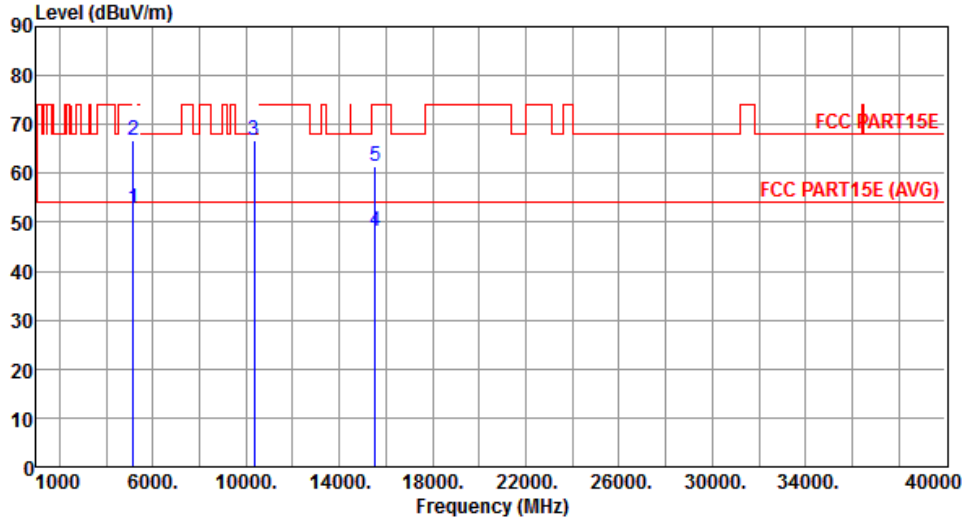
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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

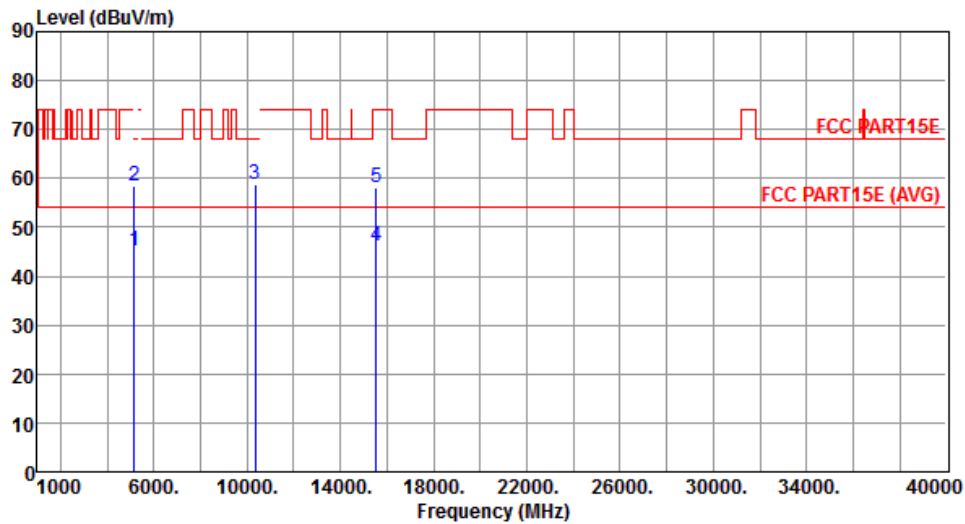
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal	Transmit Chains (NTX)	2Tx



	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	52.71	54.00	-1.29	46.54	6.17	Average	---	---
2	5150.00	66.62	74.00	-7.38	60.45	6.17	Peak	---	---
3	10360.00	66.77	68.20	-1.43	49.85	16.92	Peak	---	---
4	15540.00	48.12	54.00	-5.88	30.20	17.92	Average	---	---
5	15540.00	61.35	74.00	-12.65	43.43	17.92	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	Transmit Chains (NTX)	2Tx



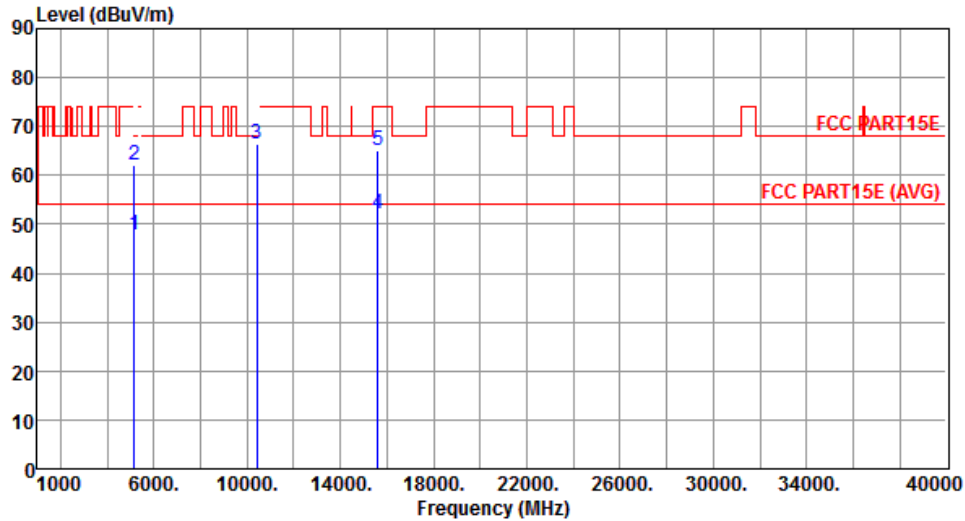
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.12	54.00	-8.88	38.95	6.17	Average	---	---
2	5150.00	58.41	74.00	-15.59	52.24	6.17	Peak	---	---
3	10360.00	58.84	68.20	-9.36	41.92	16.92	Peak	---	---
4	15540.00	46.13	54.00	-7.87	28.21	17.92	Average	---	---
5	15540.00	58.06	74.00	-15.94	40.14	17.92	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	Transmit Chains (NTX)	2Tx



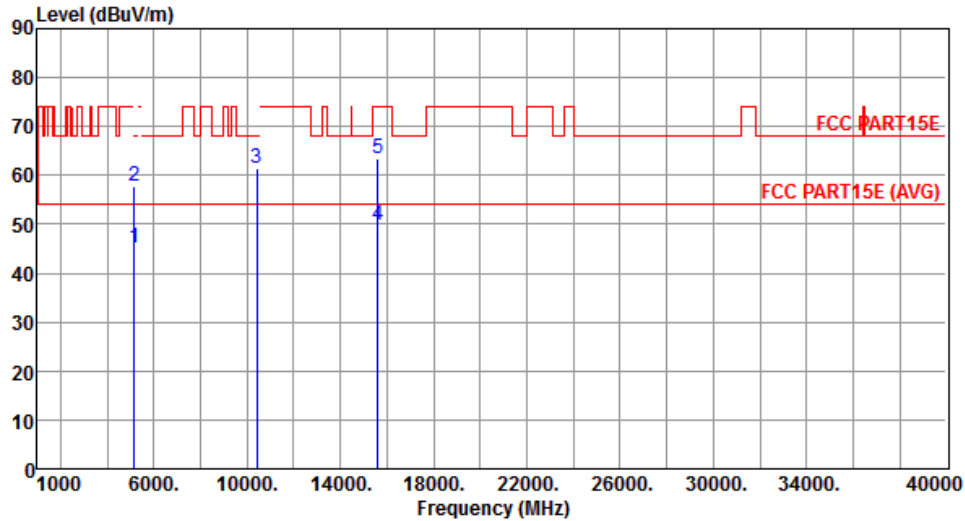
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.92	54.00	-6.08	41.75	6.17	Average	---	---
2	5150.00	62.26	74.00	-11.74	56.09	6.17	Peak	---	---
3	10400.00	66.48	68.20	-1.72	49.44	17.04	Peak	---	---
4	15600.00	52.19	54.00	-1.81	34.42	17.77	Average	---	---
5	15600.00	65.01	74.00	-8.99	47.24	17.77	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	Transmit Chains (NTX)	2Tx



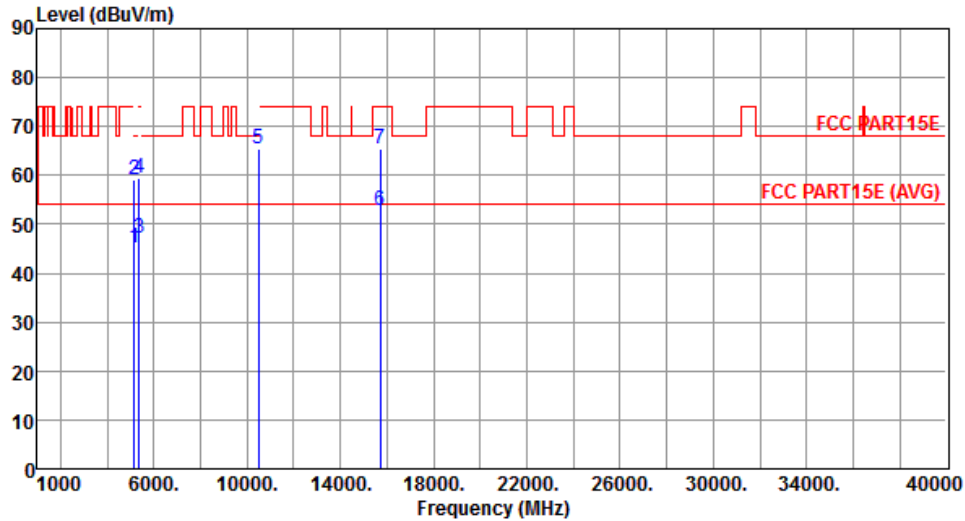
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.07	54.00	-8.93	38.90	6.17	Average	---	---
2	5150.00	57.92	74.00	-16.08	51.75	6.17	Peak	---	---
3	10400.00	61.33	68.20	-6.87	44.29	17.04	Peak	---	---
4	15600.00	49.71	54.00	-4.29	31.94	17.77	Average	---	---
5	15600.00	63.35	74.00	-10.65	45.58	17.77	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	Transmit Chains (NTX)	2Tx



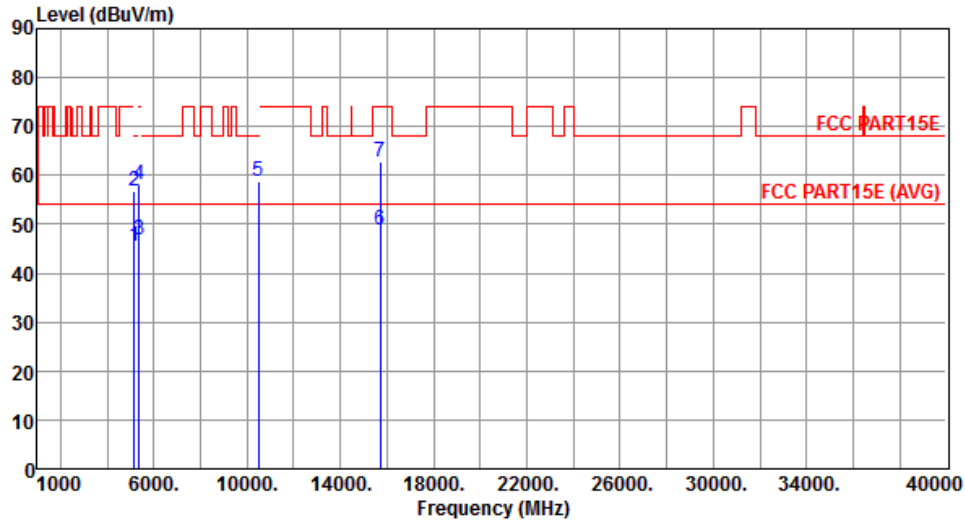
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.31	54.00	-8.69	39.14	6.17	Average	---	---
2	5150.00	59.08	74.00	-14.92	52.91	6.17	Peak	---	---
3	5350.00	47.21	54.00	-6.79	40.71	6.50	Average	---	---
4	5350.00	59.61	74.00	-14.39	53.11	6.50	Peak	---	---
5	10480.00	65.40	68.20	-2.80	48.12	17.28	Peak	---	---
6	15720.00	52.91	54.00	-1.09	35.43	17.48	Average	---	---
7	15720.00	65.27	74.00	-8.73	47.79	17.48	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	Transmit Chains (NTX)	2Tx



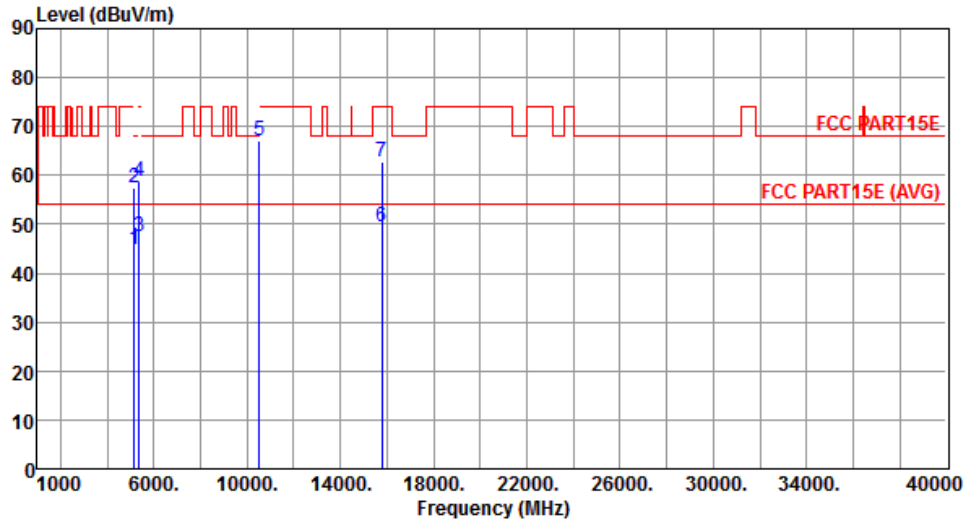
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.37	54.00	-8.63	39.20	6.17	Average	---	---
2	5150.00	56.73	74.00	-17.27	50.56	6.17	Peak	---	---
3	5350.00	46.74	54.00	-7.26	40.24	6.50	Average	---	---
4	5350.00	58.17	74.00	-15.83	51.67	6.50	Peak	---	---
5	10480.00	58.67	68.20	-9.53	41.39	17.28	Peak	---	---
6	15720.00	48.77	54.00	-5.23	31.29	17.48	Average	---	---
7	15720.00	62.74	74.00	-11.26	45.26	17.48	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)	5260
Polarization	Horizontal	Transmit Chains (NTX)	2Tx



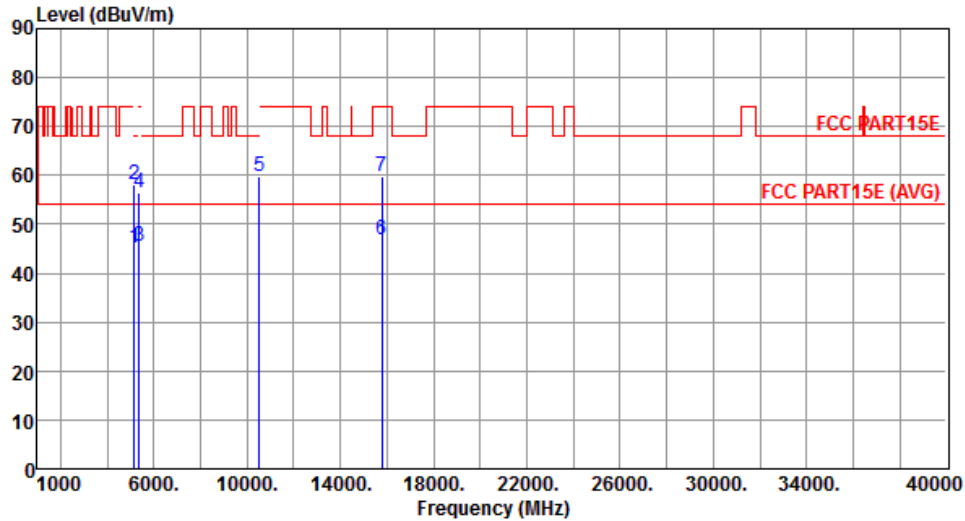
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.80	54.00	-9.20	38.63	6.17	Average	---	---
2	5150.00	57.39	74.00	-16.61	51.22	6.17	Peak	---	---
3	5350.00	47.49	54.00	-6.51	40.99	6.50	Average	---	---
4	5350.00	58.67	74.00	-15.33	52.17	6.50	Peak	---	---
5	10520.00	66.92	68.20	-1.28	49.56	17.36	Peak	---	---
6	15780.00	49.46	54.00	-4.54	32.12	17.34	Average	---	---
7	15780.00	62.75	74.00	-11.25	45.41	17.34	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)	5260
Polarization	Vertical	Transmit Chains (NTX)	2Tx



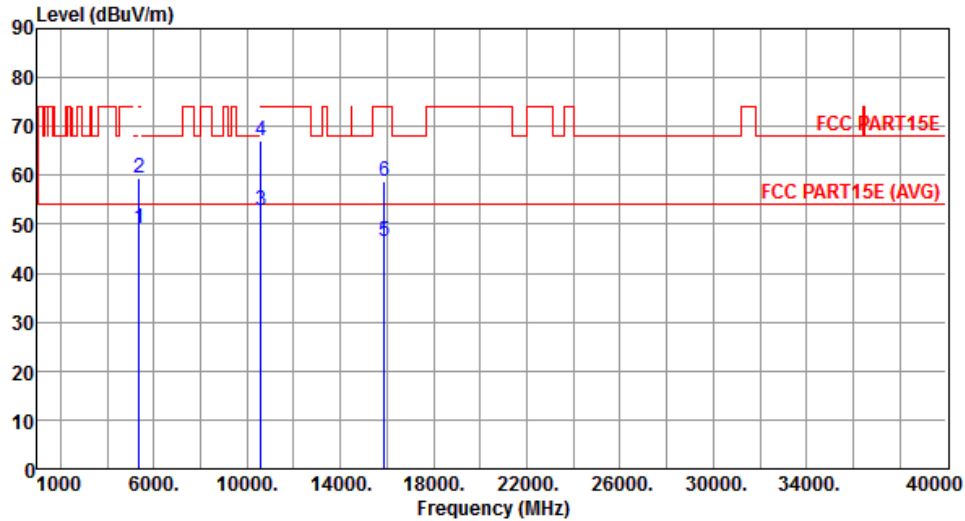
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.03	54.00	-8.97	38.86	6.17	Average	---	---
2	5150.00	58.06	74.00	-15.94	51.89	6.17	Peak	---	---
3	5350.00	45.64	54.00	-8.36	39.14	6.50	Average	---	---
4	5350.00	56.36	74.00	-17.64	49.86	6.50	Peak	---	---
5	10520.00	59.79	68.20	-8.41	42.43	17.36	Peak	---	---
6	15780.00	46.85	54.00	-7.15	29.51	17.34	Average	---	---
7	15780.00	59.82	74.00	-14.18	42.48	17.34	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)	5300
Polarization	Horizontal	Transmit Chains (NTX)	2Tx



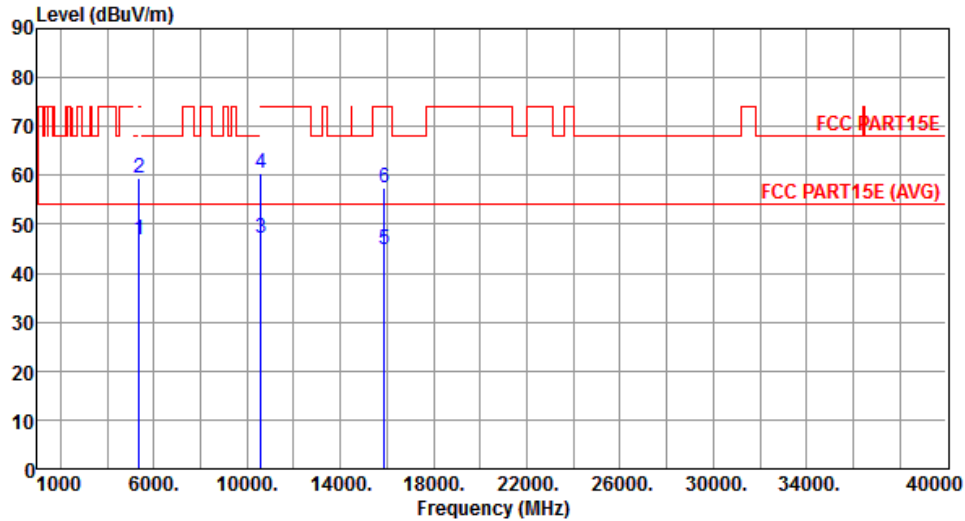
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5380.00	49.31	54.00	-4.69	42.78	6.53	Average	---	---
2	5380.00	59.51	74.00	-14.49	52.98	6.53	Peak	---	---
3	10600.00	52.96	54.00	-1.04	35.49	17.47	Average	---	---
4	10600.00	67.13	74.00	-6.87	49.66	17.47	Peak	---	---
5	15900.00	46.43	54.00	-7.57	29.38	17.05	Average	---	---
6	15900.00	58.70	74.00	-15.30	41.65	17.05	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)	5300
Polarization	Vertical	Transmit Chains (NTX)	2Tx



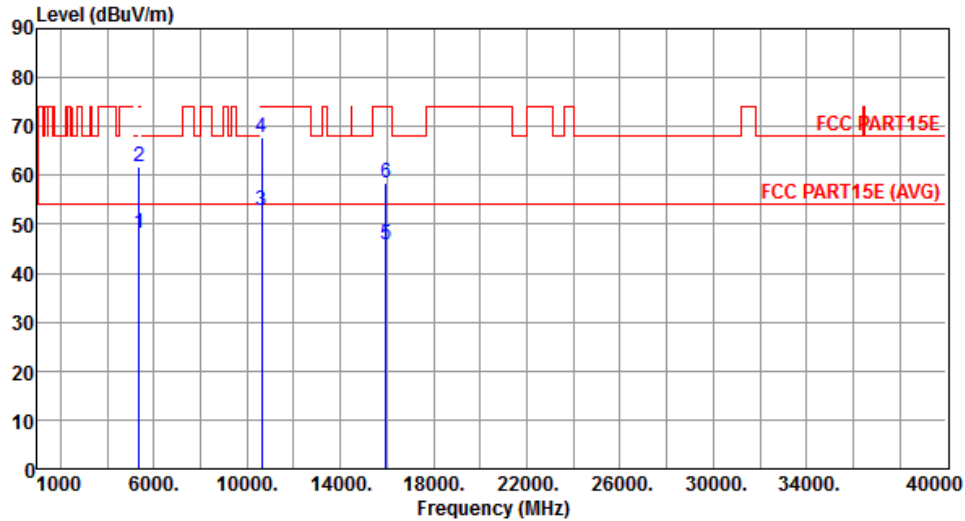
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5380.00	46.99	54.00	-7.01	40.46	6.53	Average	---	---
2	5380.00	59.44	74.00	-14.56	52.91	6.53	Peak	---	---
3	10600.00	47.21	54.00	-6.79	29.74	17.47	Average	---	---
4	10600.00	60.37	74.00	-13.63	42.90	17.47	Peak	---	---
5	15900.00	44.89	54.00	-9.11	27.84	17.05	Average	---	---
6	15900.00	57.36	74.00	-16.64	40.31	17.05	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)	5320
Polarization	Horizontal	Transmit Chains (NTX)	2Tx



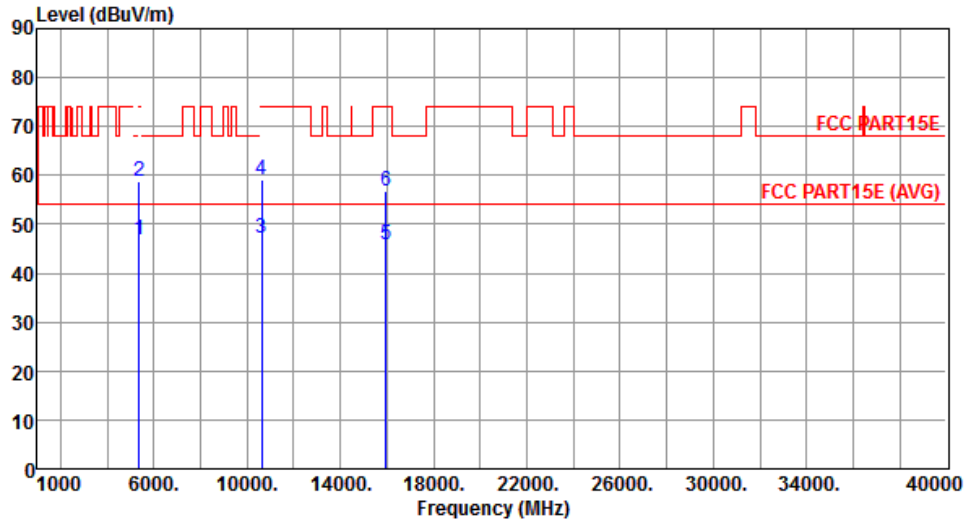
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.10	54.00	-5.90	41.60	6.50	Average	---	---
2	5350.00	61.64	74.00	-12.36	55.14	6.50	Peak	---	---
3	10640.00	52.65	54.00	-1.35	35.13	17.52	Average	---	---
4	10640.00	67.64	74.00	-6.36	50.12	17.52	Peak	---	---
5	15960.00	45.67	54.00	-8.33	28.77	16.90	Average	---	---
6	15960.00	58.31	74.00	-15.69	41.41	16.90	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)	5320
Polarization	Vertical	Transmit Chains (NTX)	2Tx



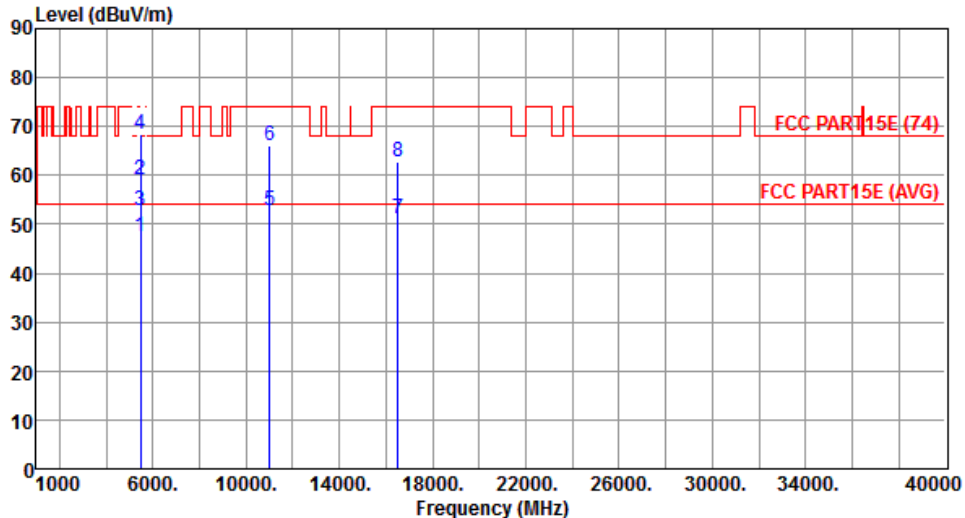
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.89	54.00	-7.11	40.39	6.50	Average	---	---
2	5350.00	58.76	74.00	-15.24	52.26	6.50	Peak	---	---
3	10640.00	47.23	54.00	-6.77	29.71	17.52	Average	---	---
4	10640.00	59.24	74.00	-14.76	41.72	17.52	Peak	---	---
5	15960.00	45.73	54.00	-8.27	28.83	16.90	Average	---	---
6	15960.00	56.65	74.00	-17.35	39.75	16.90	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).

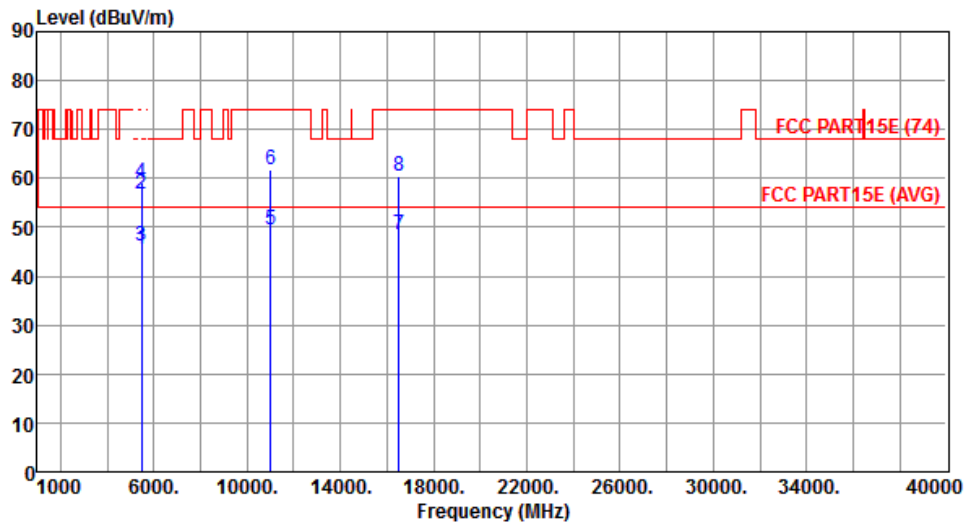
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal	Transmit Chains (NTX)	2Tx



	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	47.59	54.00	-6.41	40.92	6.67	Average	---	---
2	5460.00	59.00	74.00	-15.00	52.33	6.67	Peak	---	---
3	5470.00	52.96	54.00	-1.04	46.27	6.69	Average	---	---
4	5470.00	68.34	74.00	-5.66	61.65	6.69	Peak	---	---
5	11000.00	52.67	54.00	-1.33	34.70	17.97	Average	---	---
6	11000.00	66.14	74.00	-7.86	48.17	17.97	Peak	---	---
7	16500.00	51.12	54.00	-2.88	32.81	18.31	Average	---	---
8	16500.00	62.86	74.00	-11.14	44.55	18.31	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)	5500
Polarization	Vertical	Transmit Chains (NTX)	2Tx



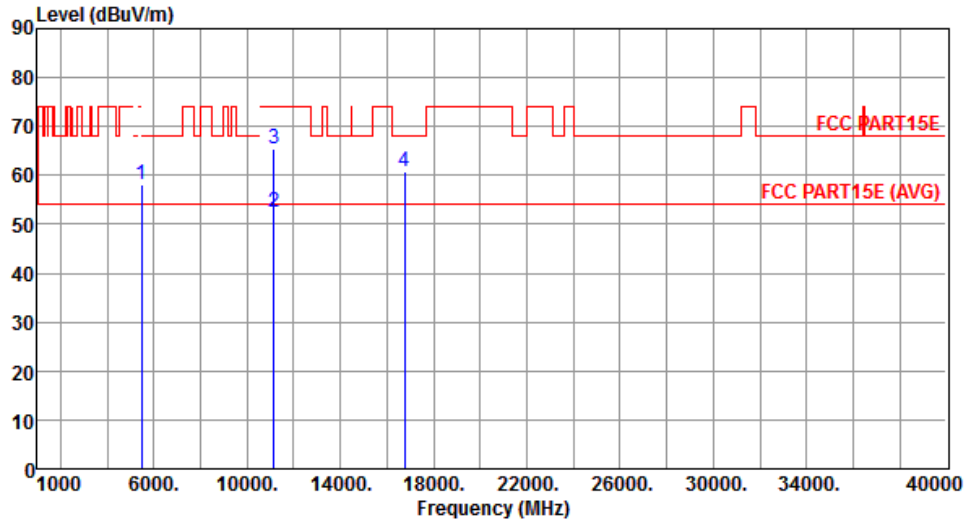
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.46	54.00	-8.54	38.79	6.67	Average	---	---
2	5460.00	56.69	74.00	-17.31	50.02	6.67	Peak	---	---
3	5470.00	46.23	54.00	-7.77	39.54	6.69	Average	---	---
4	5470.00	59.02	74.00	-14.98	52.33	6.69	Peak	---	---
5	11000.00	49.46	54.00	-4.54	31.49	17.97	Average	---	---
6	11000.00	61.69	74.00	-12.31	43.72	17.97	Peak	---	---
7	16500.00	48.40	54.00	-5.60	30.09	18.31	Average	---	---
8	16500.00	60.42	74.00	-13.58	42.11	18.31	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)	5580
Polarization	Horizontal	Transmit Chains (NTX)	2Tx



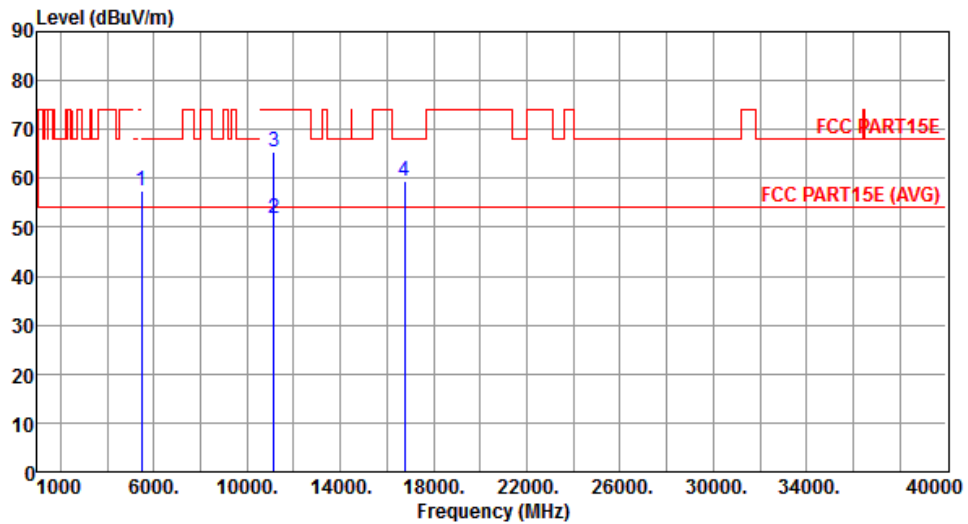
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	58.04	68.20	-10.16	51.35	6.69	Peak	---	---
2	11160.00	52.58	54.00	-1.42	34.86	17.72	Average	---	---
3	11160.00	65.50	74.00	-8.50	47.78	17.72	Peak	---	---
4	16740.00	60.93	68.20	-7.27	42.76	18.17	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)	5580
Polarization	Vertical	Transmit Chains (NTX)	2Tx



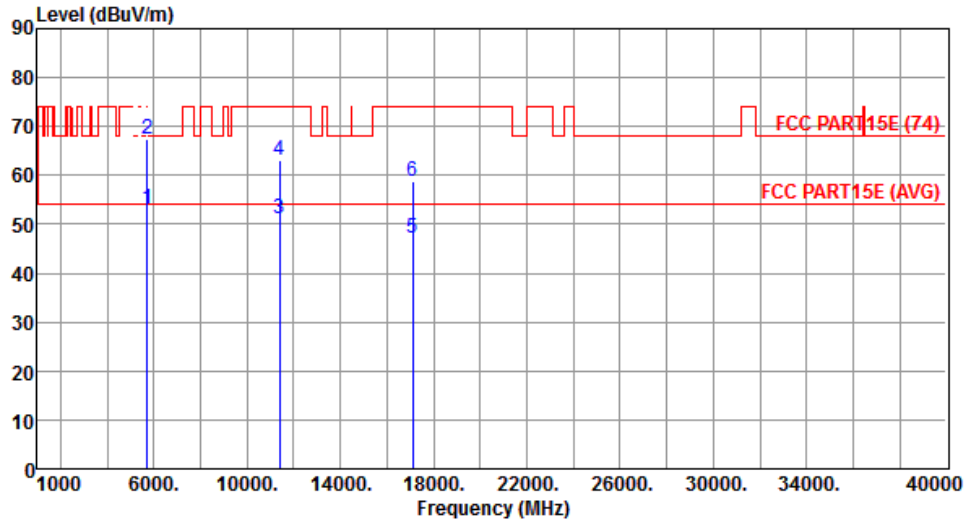
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	57.31	68.20	-10.89	50.62	6.69	Peak	---	---
2	11160.00	51.70	54.00	-2.30	33.98	17.72	Average	---	---
3	11160.00	65.32	74.00	-8.68	47.60	17.72	Peak	---	---
4	16740.00	59.53	68.20	-8.67	41.36	18.17	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)	5700
Polarization	Horizontal	Transmit Chains (NTX)	2Tx



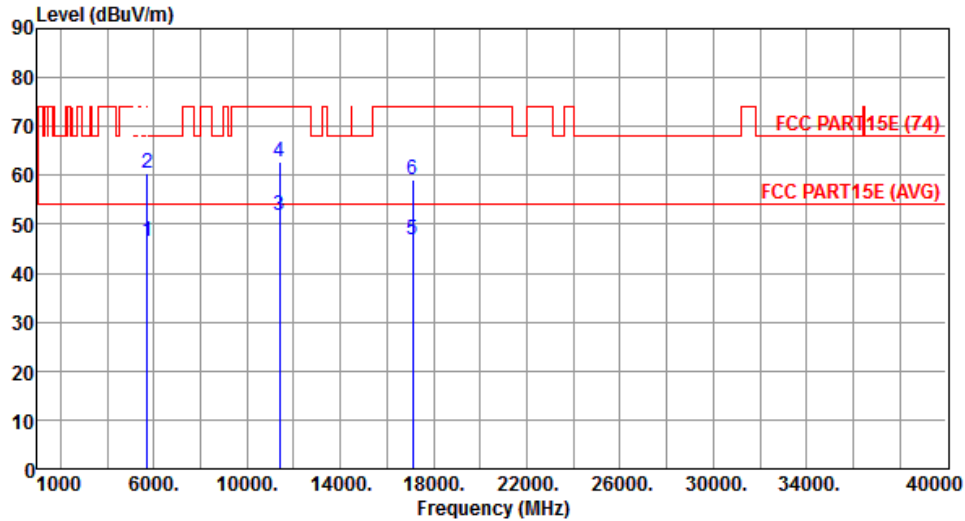
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.98	54.00	-1.02	45.91	7.07	Average	---	---
2	5725.00	67.41	74.00	-6.59	60.34	7.07	Peak	---	---
3	11400.00	51.04	54.00	-2.96	33.68	17.36	Average	---	---
4	11400.00	63.09	74.00	-10.91	45.73	17.36	Peak	---	---
5	17100.00	47.22	54.00	-6.78	28.74	18.48	Average	---	---
6	17100.00	58.76	74.00	-15.24	40.28	18.48	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)	5700
Polarization	Vertical	Transmit Chains (NTX)	2Tx



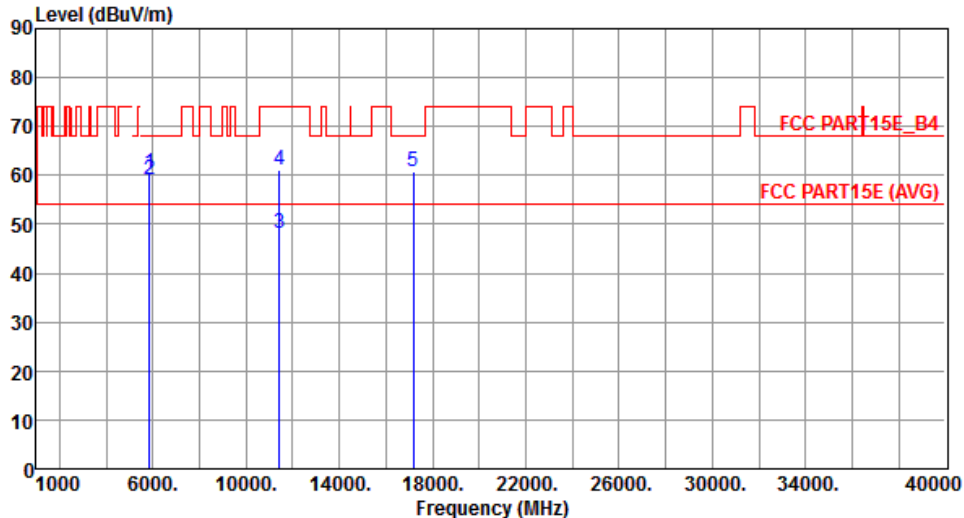
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	46.51	54.00	-7.49	39.44	7.07	Average	---	---
2	5725.00	60.43	74.00	-13.57	53.36	7.07	Peak	---	---
3	11400.00	51.75	54.00	-2.25	34.39	17.36	Average	---	---
4	11400.00	62.78	74.00	-11.22	45.42	17.36	Peak	---	---
5	17100.00	46.83	54.00	-7.17	28.35	18.48	Average	---	---
6	17100.00	59.13	74.00	-14.87	40.65	18.48	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).

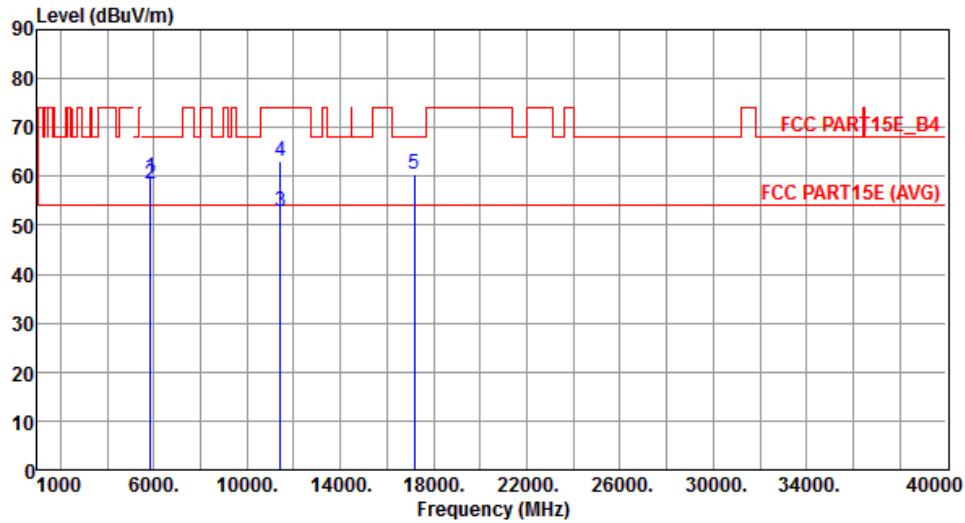
Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



	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	60.33	78.20	-17.87	53.11	7.22	Peak	---	---
2	5860.00	59.22	68.20	-8.98	51.99	7.23	Peak	---	---
3	11440.00	48.30	54.00	-5.70	31.00	17.30	Average	---	---
4	11440.00	61.16	74.00	-12.84	43.86	17.30	Peak	---	---
5	17160.00	60.63	68.20	-7.57	41.88	18.75	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)	5720
Polarization	Vertical	Transmit Chains (N_{TX})	2Tx



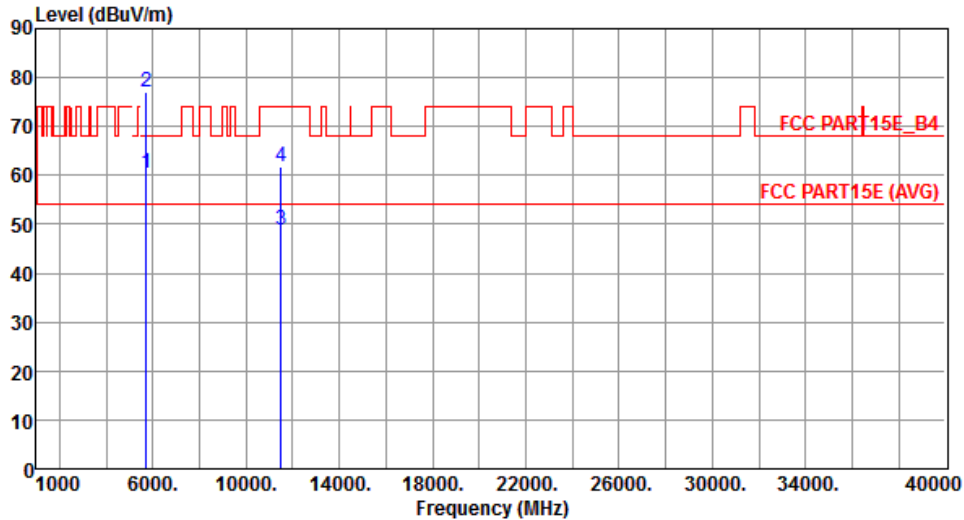
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	59.66	78.20	-18.54	52.44	7.22	Peak	---	---
2	5860.00	58.40	68.20	-9.80	51.17	7.23	Peak	---	---
3	11440.00	52.67	54.00	-1.33	35.37	17.30	Average	---	---
4	11440.00	63.02	74.00	-10.98	45.72	17.30	Peak	---	---
5	17160.00	60.43	68.20	-7.77	41.68	18.75	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).

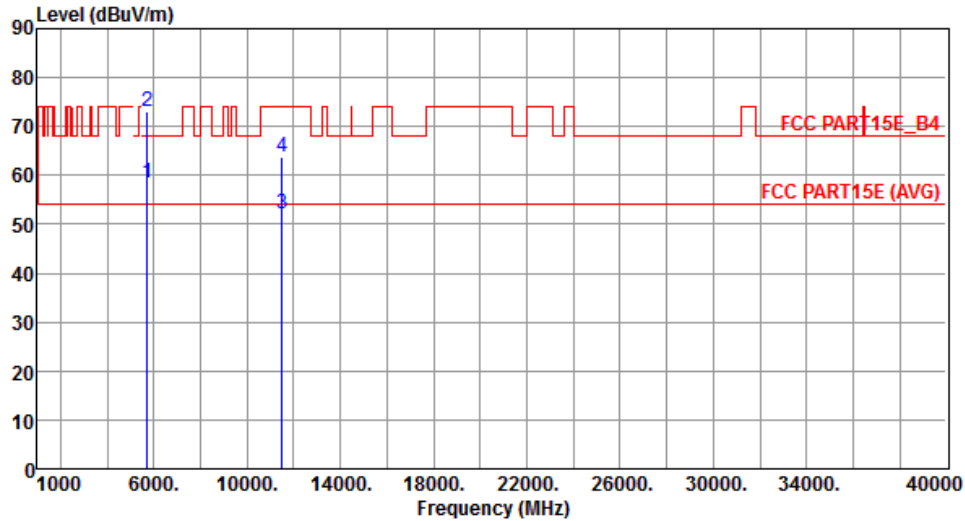
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



	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	60.43	68.20	-7.77	53.36	7.07	Peak	---	---
2	5725.00	76.91	78.20	-1.29	69.84	7.07	Peak	---	---
3	11490.00	48.74	54.00	-5.26	31.52	17.22	Average	---	---
4	11490.00	61.72	74.00	-12.28	44.50	17.22	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	Transmit Chains (N _{TX})	2Tx



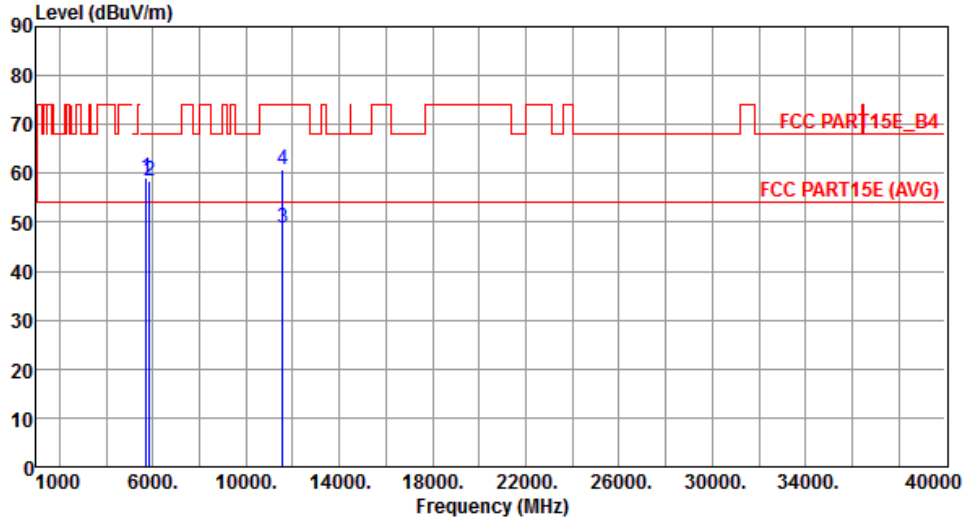
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	58.31	68.20	-9.89	51.24	7.07	Peak	---	---
2	5725.00	73.16	78.20	-5.04	66.09	7.07	Peak	---	---
3	11490.00	52.07	54.00	-1.93	34.85	17.22	Average	---	---
4	11490.00	63.69	74.00	-10.31	46.47	17.22	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).

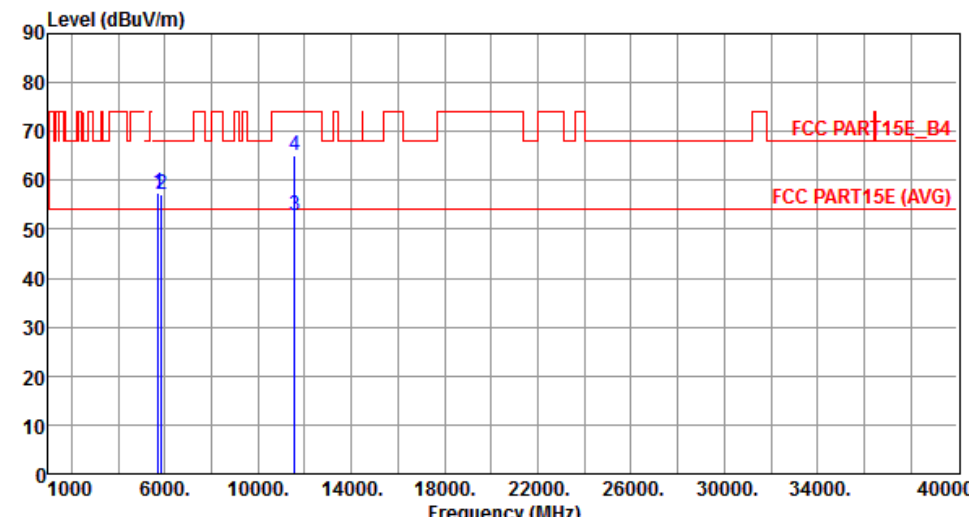
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	59.03	78.20	-19.17	51.96	7.07	Peak	---	---
2	5850.00	58.48	78.20	-19.72	51.26	7.22	Peak	---	---
3	11570.00	48.88	54.00	-5.12	31.80	17.08	Average	---	---
4	11570.00	60.64	74.00	-13.36	43.56	17.08	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).

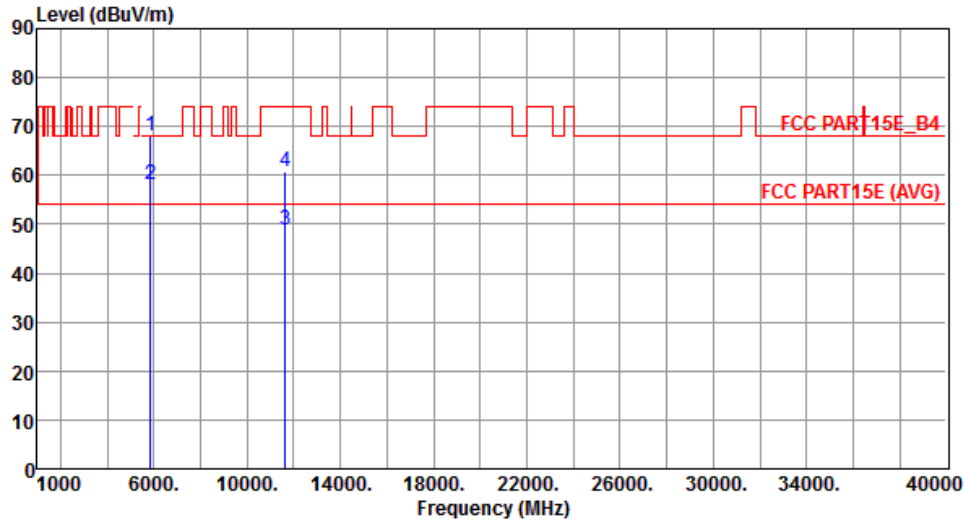
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



	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	57.43	78.20	-20.77	50.36	7.07	Peak	---	---
2	5850.00	57.05	78.20	-21.15	49.83	7.22	Peak	---	---
3	11570.00	52.93	54.00	-1.07	35.85	17.08	Average	---	---
4	11570.00	64.93	74.00	-9.07	47.85	17.08	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	Transmit Chains (N _{TX})	2Tx



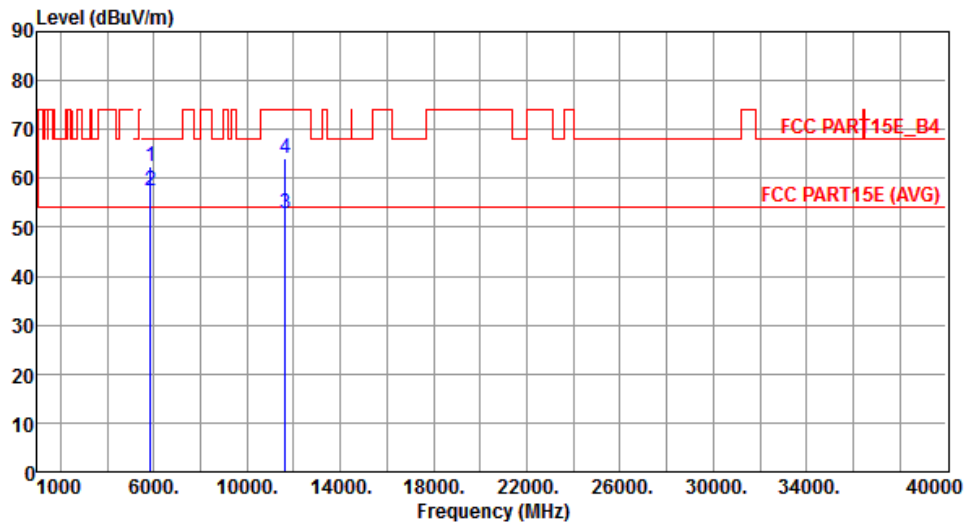
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	68.17	78.20	-10.03	60.95	7.22	Peak	---	---
2	5860.00	58.25	68.20	-9.95	51.02	7.23	Peak	---	---
3	11650.00	48.85	54.00	-5.15	31.92	16.93	Average	---	---
4	11650.00	60.85	74.00	-13.15	43.92	16.93	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	Transmit Chains (N _{TX})	2Tx



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	62.57	78.20	-15.63	55.35	7.22	Peak	---	---
2	5860.00	57.46	68.20	-10.74	50.23	7.23	Peak	---	---
3	11650.00	52.88	54.00	-1.12	35.95	16.93	Average	---	---
4	11650.00	64.11	74.00	-9.89	47.18	16.93	Peak	---	---

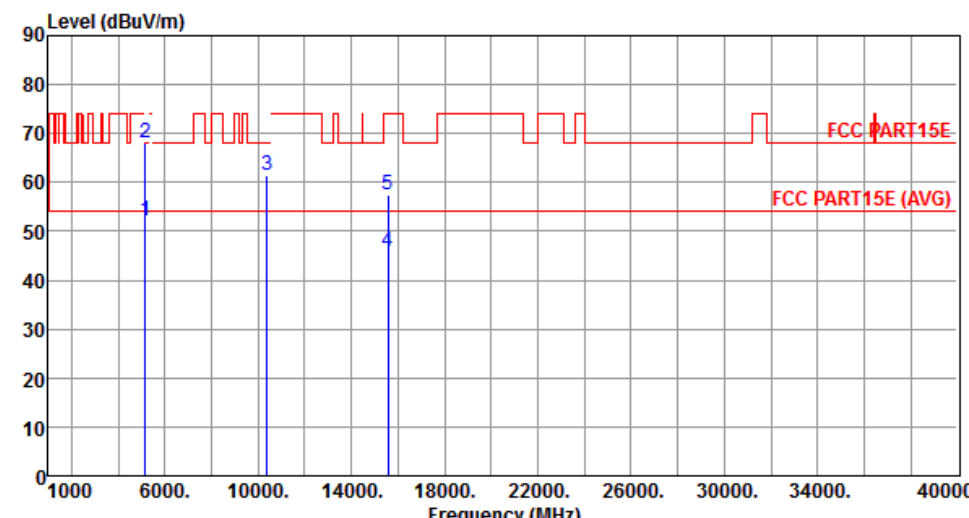
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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

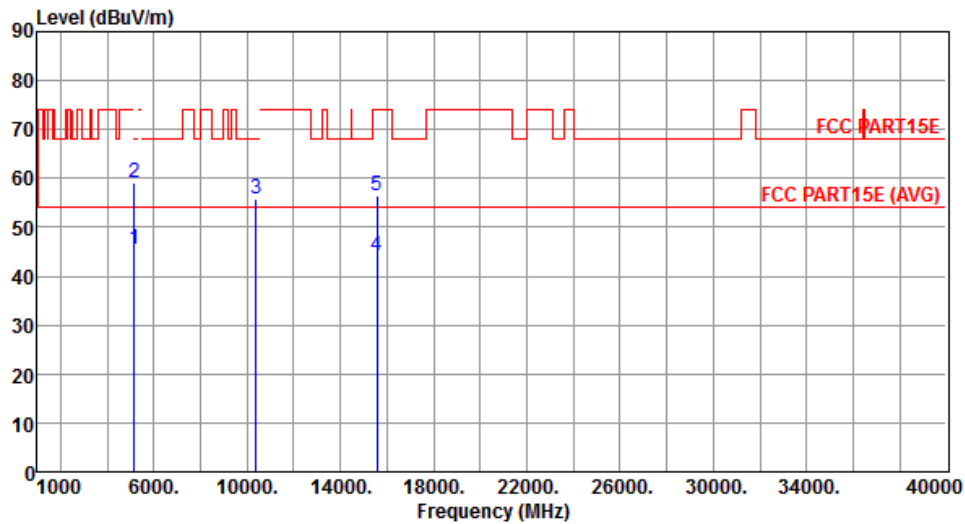
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal	Transmit Chains (NTX)	2Tx



	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	52.26	54.00	-1.74	46.09	6.17	Average	---	---
2	5150.00	68.15	74.00	-5.85	61.98	6.17	Peak	---	---
3	10380.00	61.59	68.20	-6.61	44.60	16.99	Peak	---	---
4	15570.00	45.71	54.00	-8.29	27.87	17.84	Average	---	---
5	15570.00	57.54	74.00	-16.46	39.70	17.84	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	Transmit Chains (N _{TX})	2Tx



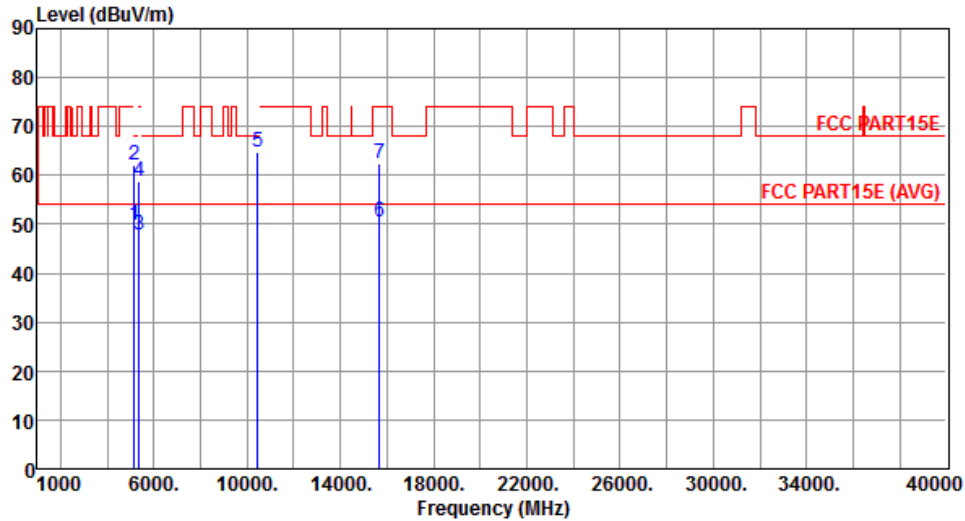
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.39	54.00	-8.61	39.22	6.17	Average	---	---
2	5150.00	59.03	74.00	-14.97	52.86	6.17	Peak	---	---
3	10380.00	55.82	68.20	-12.38	38.83	16.99	Peak	---	---
4	15570.00	44.31	54.00	-9.69	26.47	17.84	Average	---	---
5	15570.00	56.40	74.00	-17.60	38.56	17.84	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	Transmit Chains (N _{TX})	2Tx



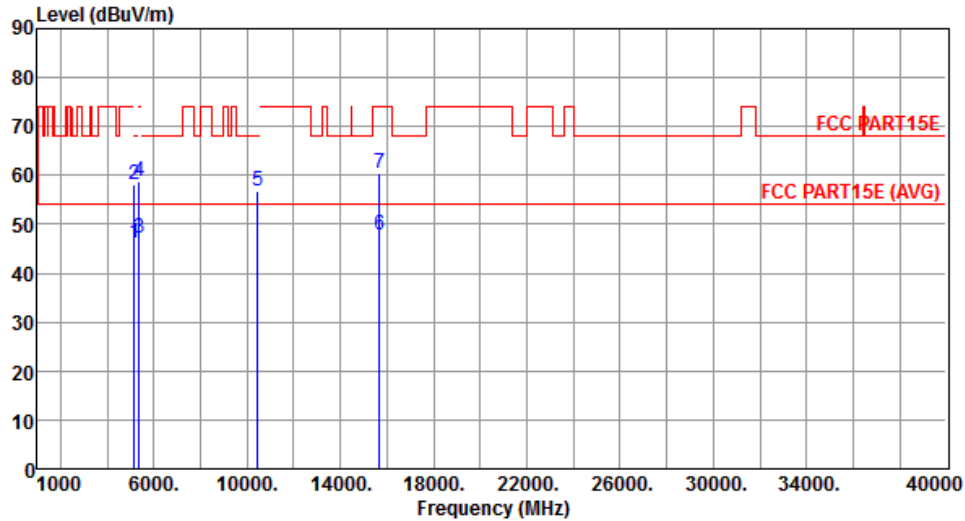
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.94	54.00	-4.06	43.77	6.17	Average	---	---
2	5150.00	62.01	74.00	-11.99	55.84	6.17	Peak	---	---
3	5350.00	47.74	54.00	-6.26	41.24	6.50	Average	---	---
4	5350.00	58.67	74.00	-15.33	52.17	6.50	Peak	---	---
5	10460.00	64.93	68.20	-3.27	47.71	17.22	Peak	---	---
6	15690.00	50.45	54.00	-3.55	32.90	17.55	Average	---	---
7	15690.00	62.57	74.00	-11.43	45.02	17.55	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)	5230
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



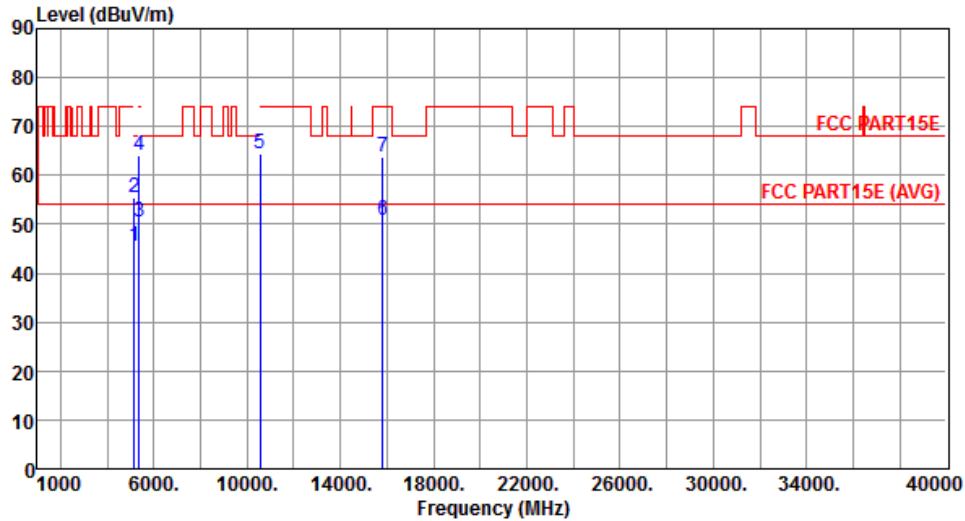
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.24	54.00	-7.76	40.07	6.17	Average	---	---
2	5150.00	57.96	74.00	-16.04	51.79	6.17	Peak	---	---
3	5350.00	47.22	54.00	-6.78	40.72	6.50	Average	---	---
4	5350.00	58.91	74.00	-15.09	52.41	6.50	Peak	---	---
5	10460.00	56.95	68.20	-11.25	39.73	17.22	Peak	---	---
6	15690.00	47.89	54.00	-6.11	30.34	17.55	Average	---	---
7	15690.00	60.37	74.00	-13.63	42.82	17.55	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)	5270
Polarization	Horizontal	Transmit Chains (N_{TX})	2Tx



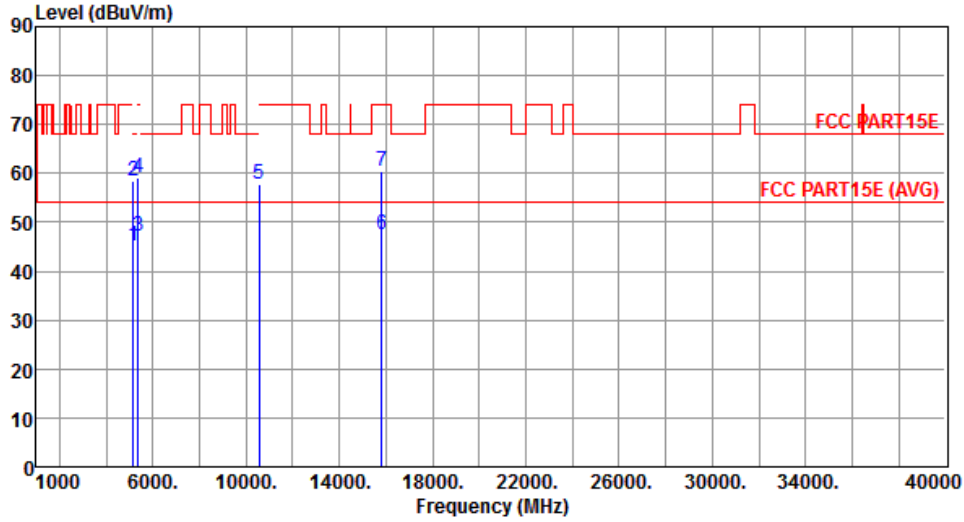
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.35	54.00	-8.65	39.18	6.17	Average	---	---
2	5150.00	55.58	74.00	-18.42	49.41	6.17	Peak	---	---
3	5350.00	50.55	54.00	-3.45	44.05	6.50	Average	---	---
4	5350.00	64.26	74.00	-9.74	57.76	6.50	Peak	---	---
5	10540.00	64.26	68.20	-3.94	46.87	17.39	Peak	---	---
6	15810.00	50.78	54.00	-3.22	33.51	17.27	Average	---	---
7	15810.00	63.65	74.00	-10.35	46.38	17.27	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).

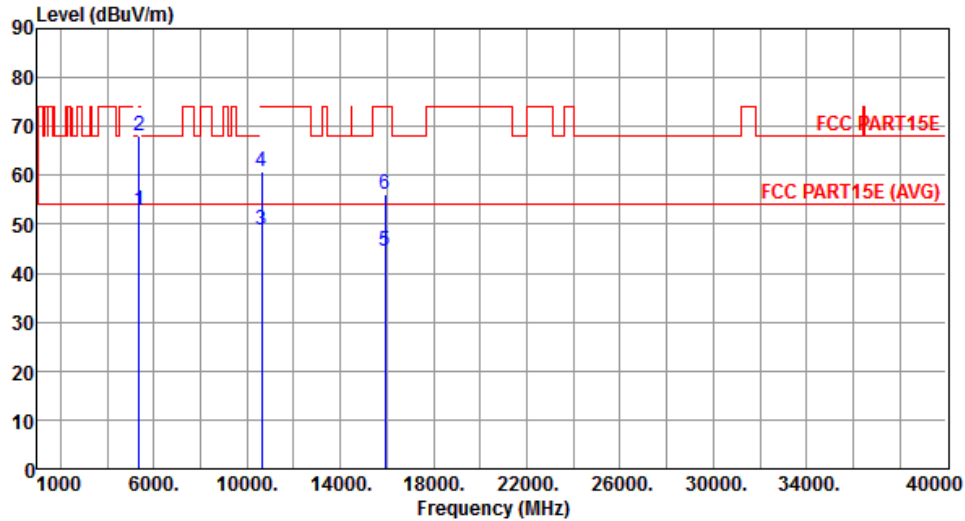
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



	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	45.30	54.00	-8.70	39.13	6.17	Average	---	---
2	5150.00	58.44	74.00	-15.56	52.27	6.17	Peak	---	---
3	5350.00	47.00	54.00	-7.00	40.50	6.50	Average	---	---
4	5350.00	59.02	74.00	-14.98	52.52	6.50	Peak	---	---
5	10540.00	57.80	68.20	-10.40	40.41	17.39	Peak	---	---
6	15810.00	47.45	54.00	-6.55	30.18	17.27	Average	---	---
7	15810.00	60.34	74.00	-13.66	43.07	17.27	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)	5310
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



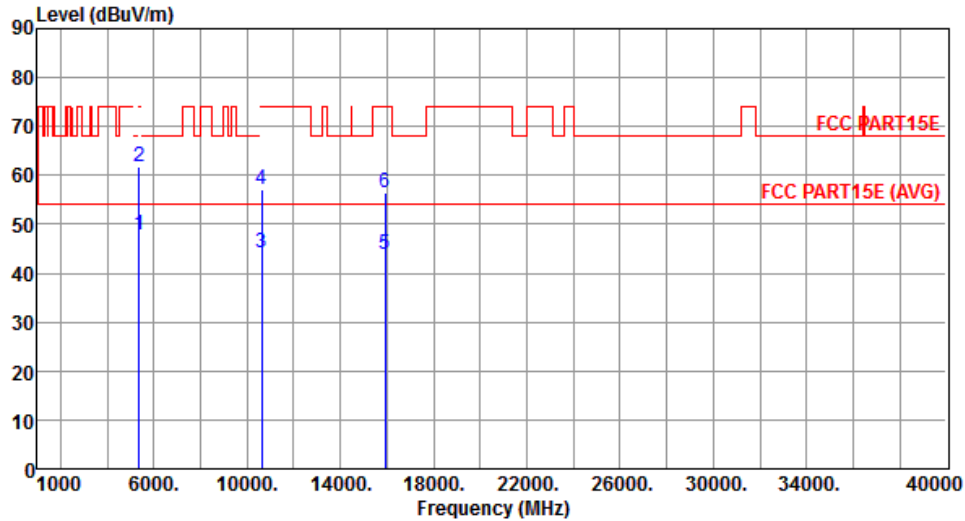
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.88	54.00	-1.12	46.38	6.50	Average	---	---
2	5350.00	68.20	74.00	-5.80	61.70	6.50	Peak	---	---
3	10620.00	48.88	54.00	-5.12	31.39	17.49	Average	---	---
4	10620.00	60.80	74.00	-13.20	43.31	17.49	Peak	---	---
5	15930.00	44.36	54.00	-9.64	27.38	16.98	Average	---	---
6	15930.00	56.15	74.00	-17.85	39.17	16.98	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)	5310
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



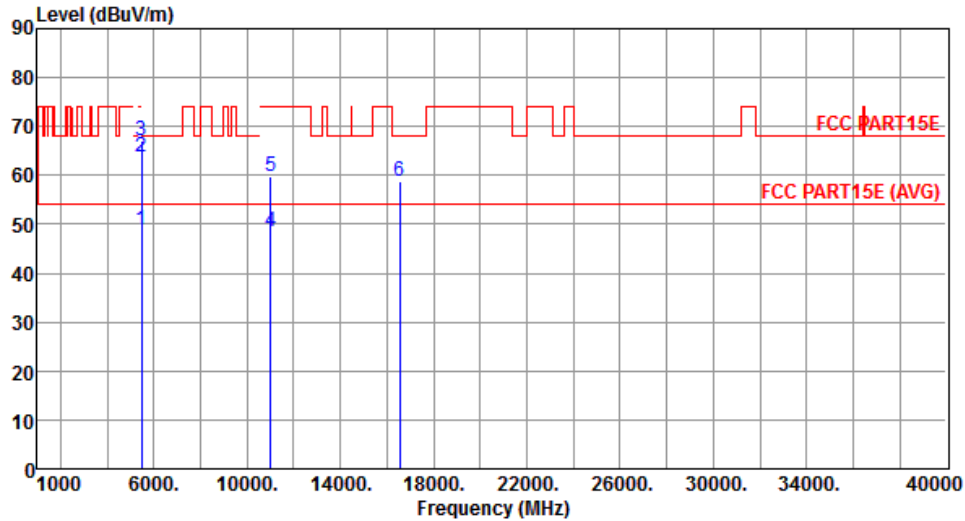
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.72	54.00	-6.28	41.22	6.50	Average	---	---
2	5350.00	61.65	74.00	-12.35	55.15	6.50	Peak	---	---
3	10620.00	44.09	54.00	-9.91	26.60	17.49	Average	---	---
4	10620.00	57.02	74.00	-16.98	39.53	17.49	Peak	---	---
5	15930.00	43.79	54.00	-10.21	26.81	16.98	Average	---	---
6	15930.00	56.35	74.00	-17.65	39.37	16.98	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)	5510
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



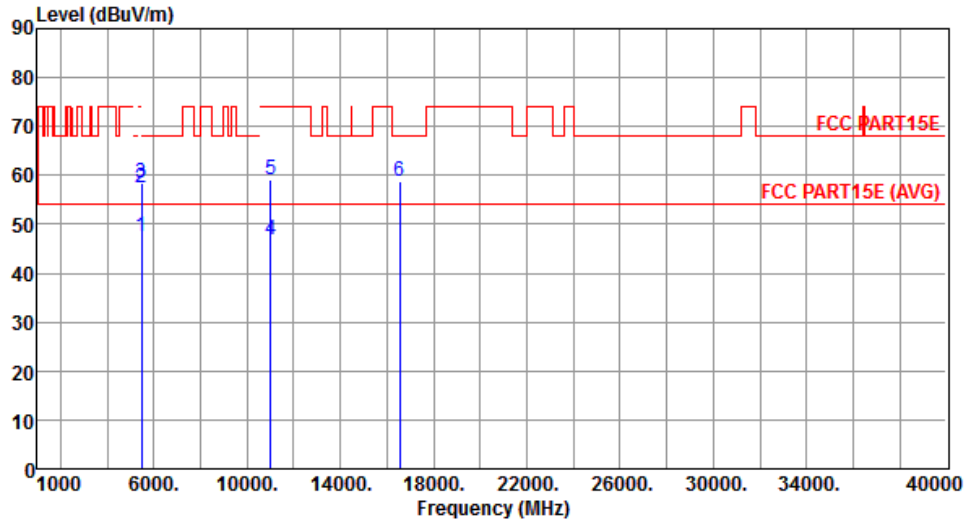
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.93	54.00	-5.07	42.26	6.67	Average	---	---
2	5460.00	63.62	74.00	-10.38	56.95	6.67	Peak	---	---
3	5470.00	66.96	68.20	-1.24	60.27	6.69	Peak	---	---
4	11020.00	48.61	54.00	-5.39	30.66	17.95	Average	---	---
5	11020.00	59.67	74.00	-14.33	41.72	17.95	Peak	---	---
6	16530.00	58.67	68.20	-9.53	40.38	18.29	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)	5510
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



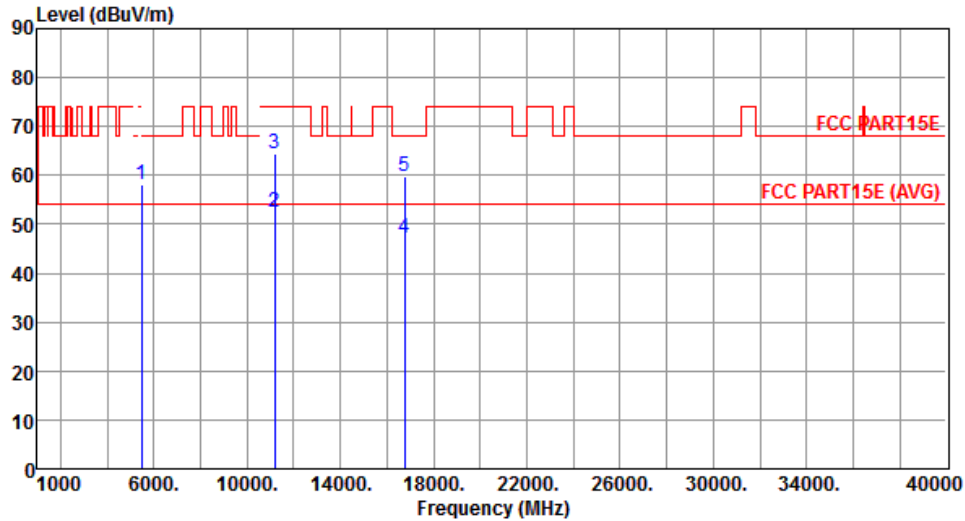
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.35	54.00	-6.65	40.68	6.67	Average	---	---
2	5460.00	57.50	74.00	-16.50	50.83	6.67	Peak	---	---
3	5470.00	58.35	68.20	-9.85	51.66	6.69	Peak	---	---
4	11020.00	46.70	54.00	-7.30	28.75	17.95	Average	---	---
5	11020.00	59.20	74.00	-14.80	41.25	17.95	Peak	---	---
6	16530.00	58.62	68.20	-9.58	40.33	18.29	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)	5590
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



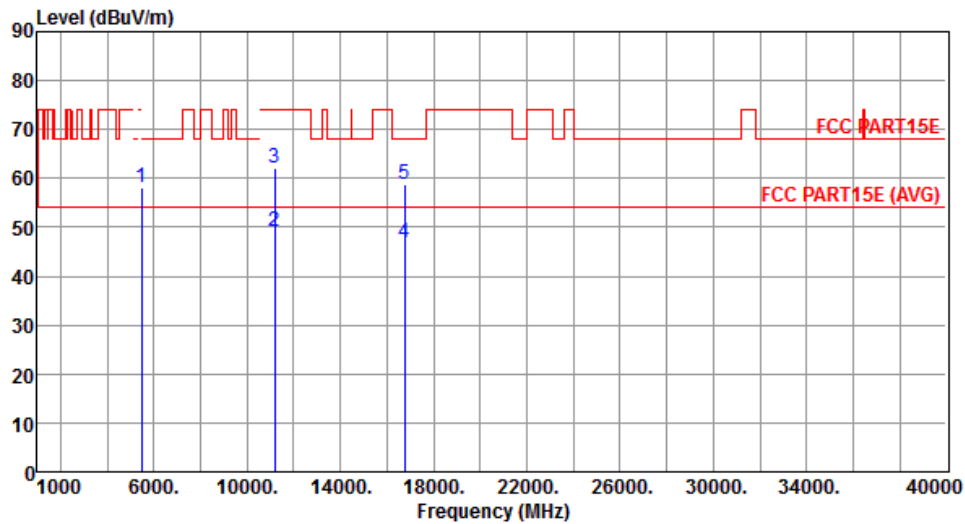
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	58.12	68.20	-10.08	51.43	6.69	Peak	---	---
2	11180.00	52.61	54.00	-1.39	34.92	17.69	Average	---	---
3	11180.00	64.42	74.00	-9.58	46.73	17.69	Peak	---	---
4	16770.00	47.23	54.00	-6.77	29.07	18.16	Average	---	---
5	16770.00	59.89	68.20	-8.31	41.73	18.16	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)	5590
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



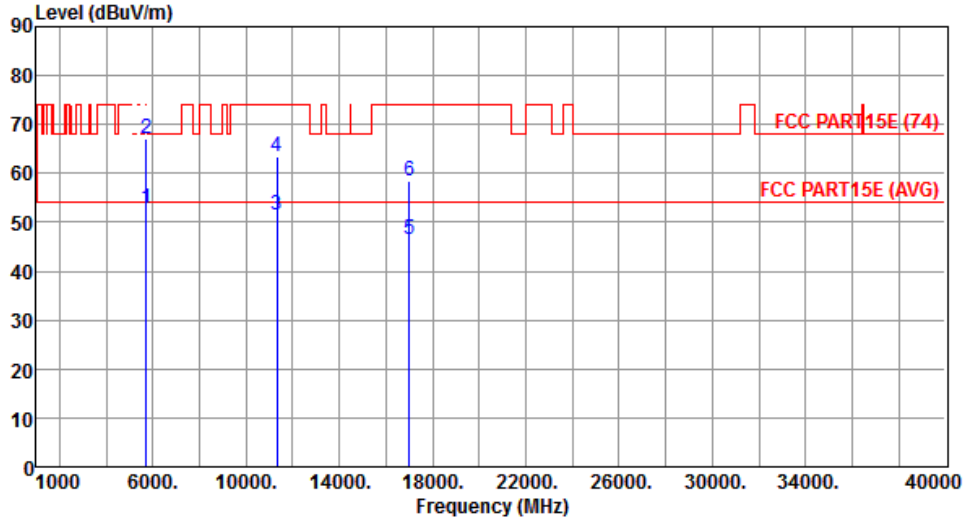
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	58.25	68.20	-9.95	51.56	6.69	Peak	---	---
2	11180.00	49.09	54.00	-4.91	31.40	17.69	Average	---	---
3	11180.00	62.06	74.00	-11.94	44.37	17.69	Peak	---	---
4	16770.00	46.98	54.00	-7.02	28.82	18.16	Average	---	---
5	16770.00	58.82	68.20	-9.38	40.66	18.16	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).

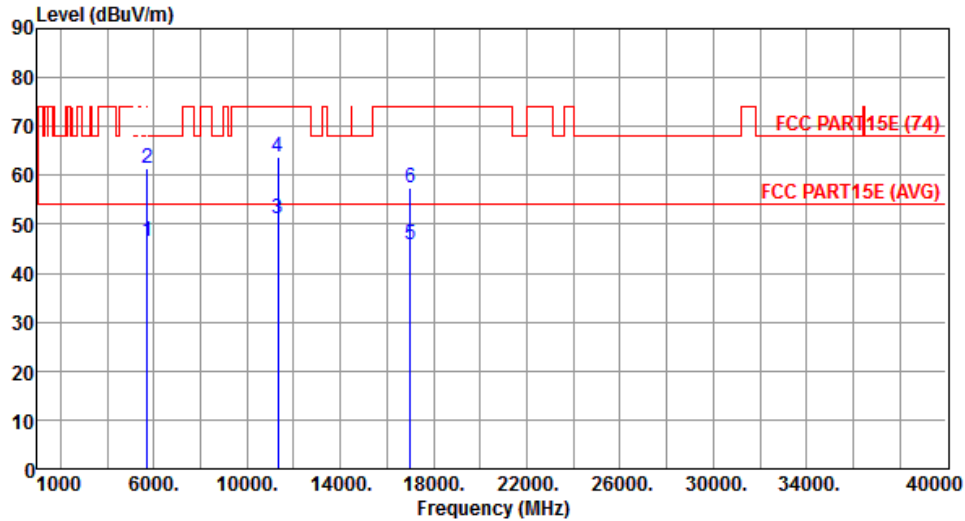
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



	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	52.65	54.00	-1.35	45.58	7.07	Average	---	---
2	5725.00	67.16	74.00	-6.84	60.09	7.07	Peak	---	---
3	11340.00	51.32	54.00	-2.68	33.86	17.46	Average	---	---
4	11340.00	63.50	74.00	-10.50	46.04	17.46	Peak	---	---
5	17010.00	46.40	54.00	-7.60	28.32	18.08	Average	---	---
6	17010.00	58.42	74.00	-15.58	40.34	18.08	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)	5670
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



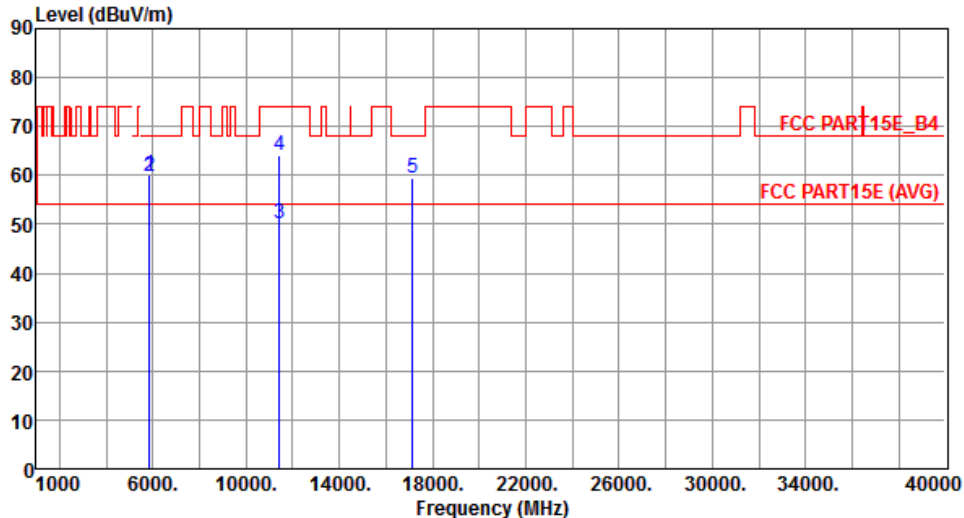
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	46.45	54.00	-7.55	39.38	7.07	Average	---	---
2	5725.00	61.41	74.00	-12.59	54.34	7.07	Peak	---	---
3	11340.00	51.02	54.00	-2.98	33.56	17.46	Average	---	---
4	11340.00	63.66	74.00	-10.34	46.20	17.46	Peak	---	---
5	17010.00	45.75	54.00	-8.25	27.67	18.08	Average	---	---
6	17010.00	57.48	74.00	-16.52	39.40	18.08	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).

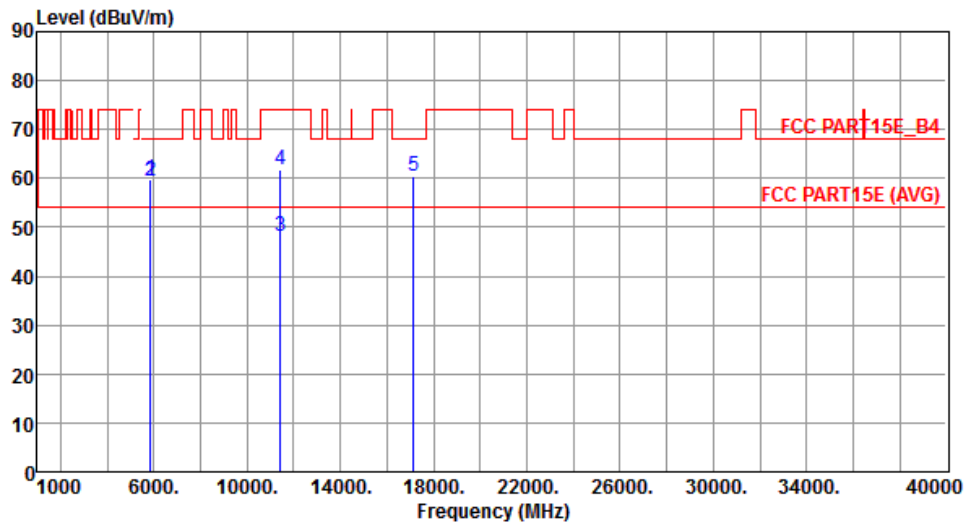
Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



	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	60.09	78.20	-18.11	52.87	7.22	Peak	---	---
2	5860.00	59.75	68.20	-8.45	52.52	7.23	Peak	---	---
3	11420.00	50.16	54.00	-3.84	32.82	17.34	Average	---	---
4	11420.00	64.22	74.00	-9.78	46.88	17.34	Peak	---	---
5	17130.00	59.30	68.20	-8.90	40.70	18.60	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)	5710
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



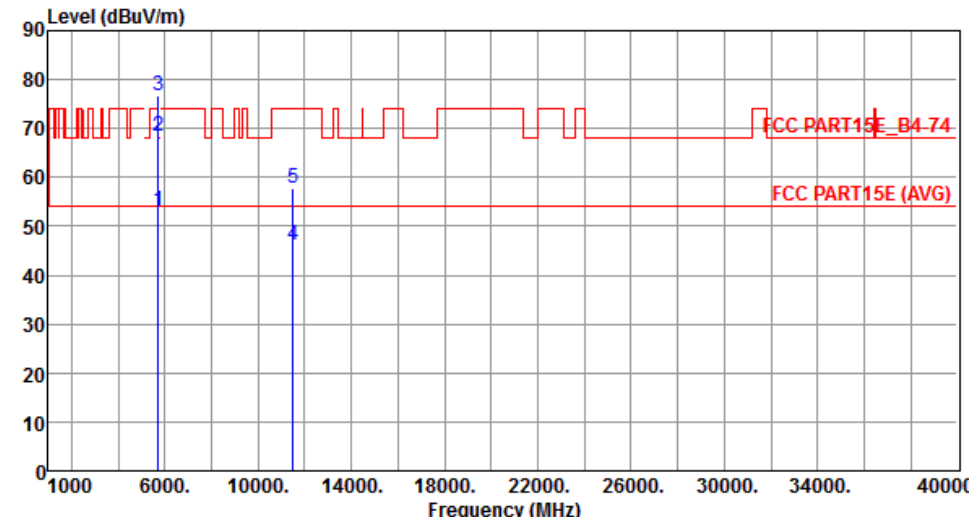
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	59.74	78.20	-18.46	52.52	7.22	Peak	---	---
2	5860.00	59.51	68.20	-8.69	52.28	7.23	Peak	---	---
3	11420.00	48.31	54.00	-5.69	30.97	17.34	Average	---	---
4	11420.00	61.75	74.00	-12.25	44.41	17.34	Peak	---	---
5	17130.00	60.34	68.20	-7.86	41.74	18.60	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).

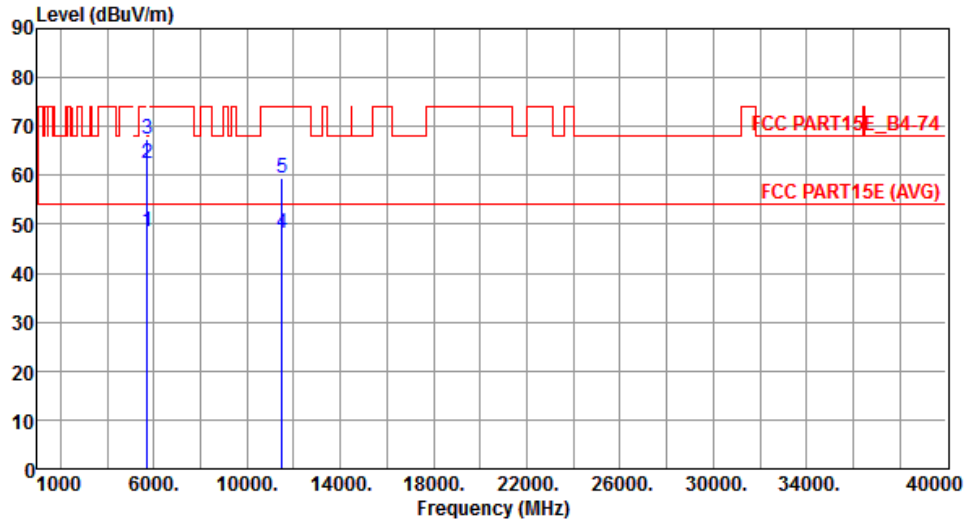
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



	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	52.99	54.00	-1.01	45.92	7.07	Average	---	---
2	5715.00	68.57	74.00	-5.43	61.50	7.07	Peak	---	---
3	5725.00	76.71	78.20	-1.49	69.64	7.07	Peak	---	---
4	11510.00	46.03	54.00	-7.97	28.84	17.19	Average	---	---
5	11510.00	57.75	74.00	-16.25	40.56	17.19	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	Transmit Chains (N _{TX})	2Tx



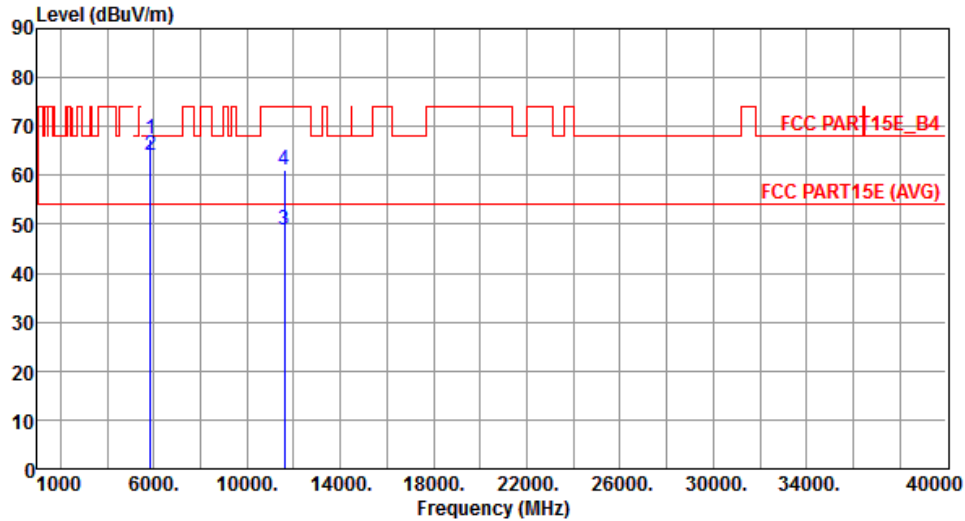
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	48.39	54.00	-5.61	41.32	7.07	Average	---	---
2	5715.00	62.40	74.00	-11.60	55.33	7.07	Peak	---	---
3	5725.00	67.45	78.20	-10.75	60.38	7.07	Peak	---	---
4	11510.00	48.24	54.00	-5.76	31.05	17.19	Average	---	---
5	11510.00	59.41	74.00	-14.59	42.22	17.19	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	Transmit Chains (N _{TX})	2Tx



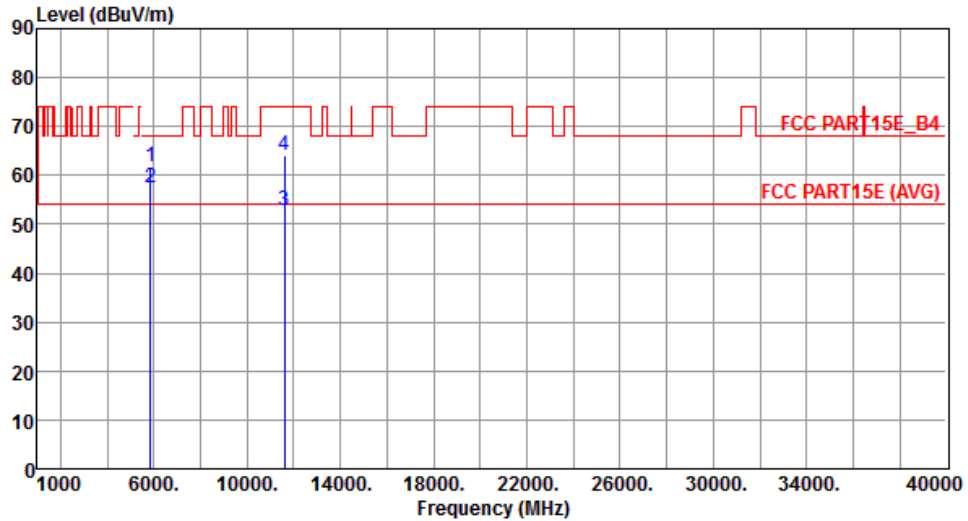
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	67.35	78.20	-10.85	60.13	7.22	Peak	---	---
2	5860.00	63.95	68.20	-4.25	56.72	7.23	Peak	---	---
3	11590.00	48.73	54.00	-5.27	31.69	17.04	Average	---	---
4	11590.00	61.03	74.00	-12.97	43.99	17.04	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	Transmit Chains (N _{TX})	2Tx



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	61.65	78.20	-16.55	54.43	7.22	Peak	---	---
2	5860.00	57.58	68.20	-10.62	50.35	7.23	Peak	---	---
3	11590.00	52.72	54.00	-1.28	35.68	17.04	Average	---	---
4	11590.00	64.17	74.00	-9.83	47.13	17.04	Peak	---	---

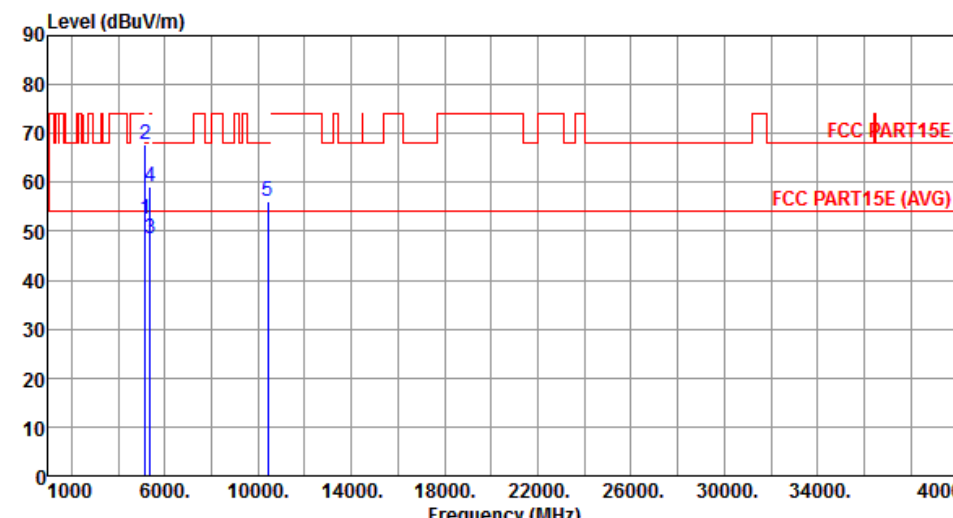
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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

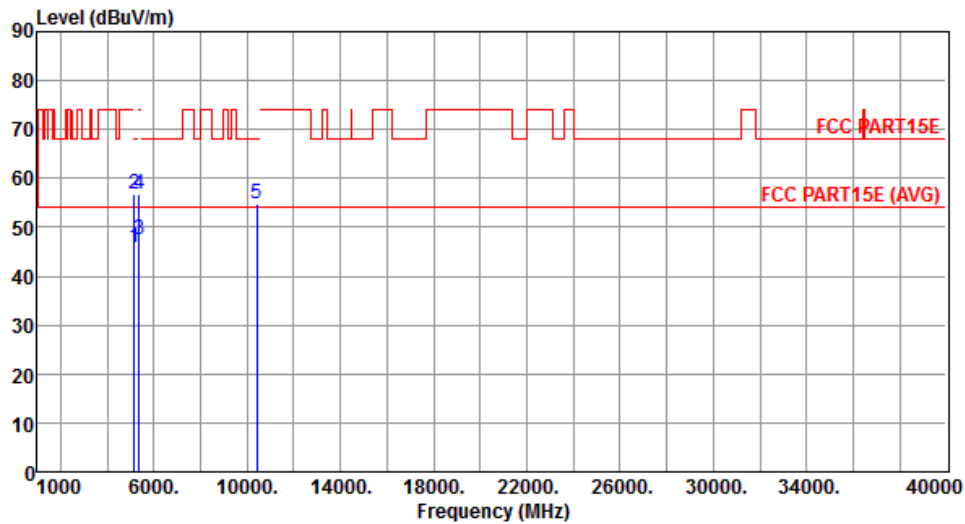
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



	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	52.53	54.00	-1.47	46.36	6.17	Average	---	---
2	5150.00	67.67	74.00	-6.33	61.50	6.17	Peak	---	---
3	5350.00	48.34	54.00	-5.66	41.84	6.50	Average	---	---
4	5350.00	59.10	74.00	-14.90	52.60	6.50	Peak	---	---
5	10420.00	56.03	68.20	-12.17	38.93	17.10	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	Transmit Chains (N _{TX})	2Tx



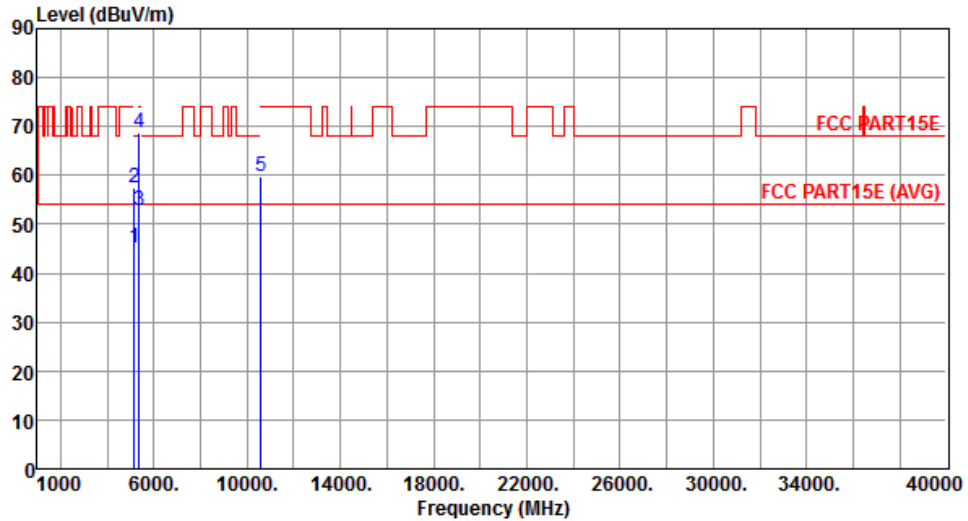
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.94	54.00	-8.06	39.77	6.17	Average	---	---
2	5150.00	56.92	74.00	-17.08	50.75	6.17	Peak	---	---
3	5350.00	47.61	54.00	-6.39	41.11	6.50	Average	---	---
4	5350.00	56.65	74.00	-17.35	50.15	6.50	Peak	---	---
5	10420.00	54.80	68.20	-13.40	37.70	17.10	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)	5290
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



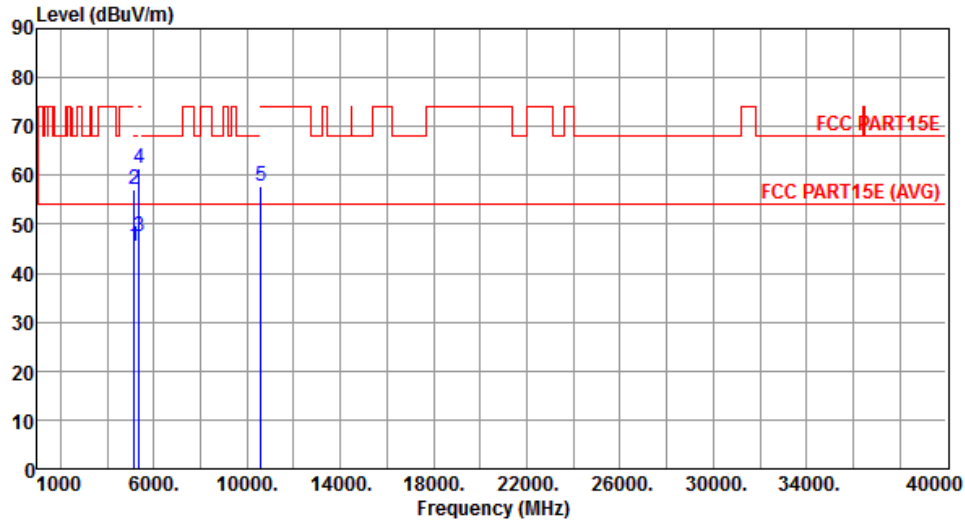
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.19	54.00	-8.81	39.02	6.17	Average	---	---
2	5150.00	57.44	74.00	-16.56	51.27	6.17	Peak	---	---
3	5350.00	52.95	54.00	-1.05	46.45	6.50	Average	---	---
4	5350.00	68.75	74.00	-5.25	62.25	6.50	Peak	---	---
5	10580.00	59.71	68.20	-8.49	42.27	17.44	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)	5290
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



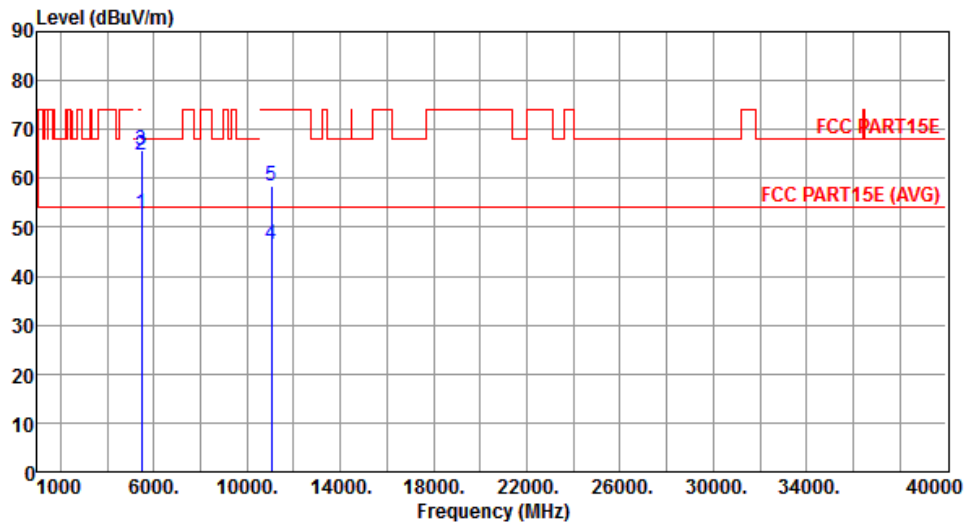
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.48	54.00	-8.52	39.31	6.17	Average	---	---
2	5150.00	56.98	74.00	-17.02	50.81	6.17	Peak	---	---
3	5350.00	47.42	54.00	-6.58	40.92	6.50	Average	---	---
4	5350.00	61.30	74.00	-12.70	54.80	6.50	Peak	---	---
5	10580.00	57.88	68.20	-10.32	40.44	17.44	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)	5530
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



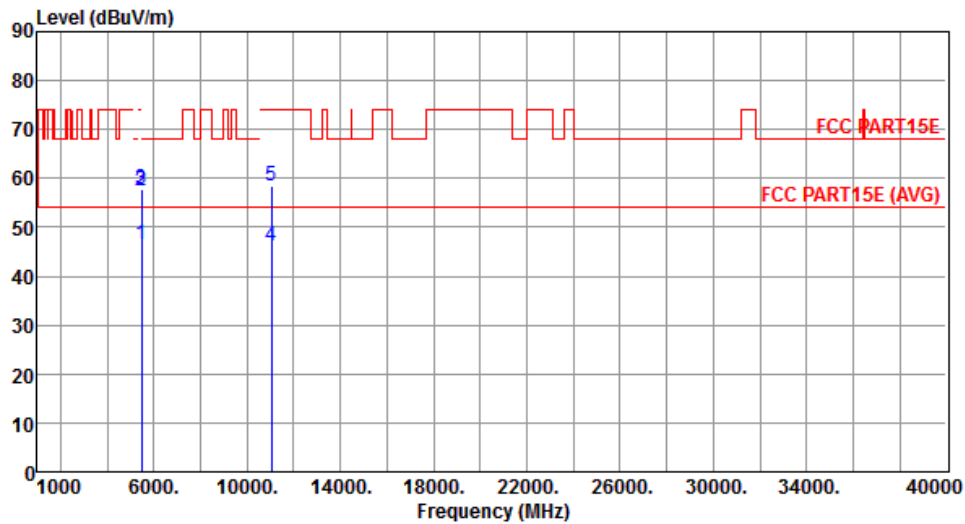
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	52.88	54.00	-1.12	46.21	6.67	Average	---	---
2	5460.00	64.75	74.00	-9.25	58.08	6.67	Peak	---	---
3	5470.00	65.82	68.20	-2.38	59.13	6.69	Peak	---	---
4	11060.00	46.49	54.00	-7.51	28.61	17.88	Average	---	---
5	11060.00	58.44	74.00	-15.56	40.56	17.88	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)	5530
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



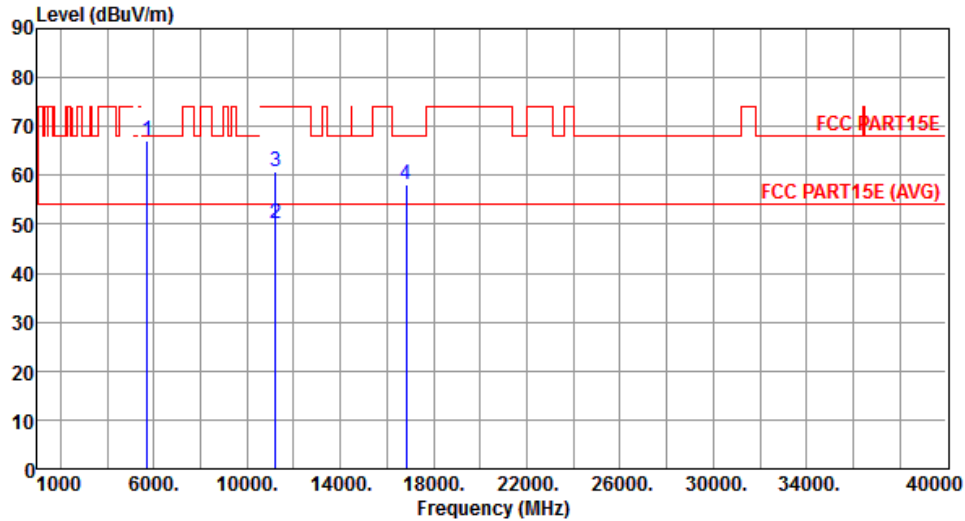
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.33	54.00	-7.67	39.66	6.67	Average	---	---
2	5460.00	57.53	74.00	-16.47	50.86	6.67	Peak	---	---
3	5470.00	57.79	68.20	-10.41	51.10	6.69	Peak	---	---
4	11060.00	46.29	54.00	-7.71	28.41	17.88	Average	---	---
5	11060.00	58.41	74.00	-15.59	40.53	17.88	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)	5610
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



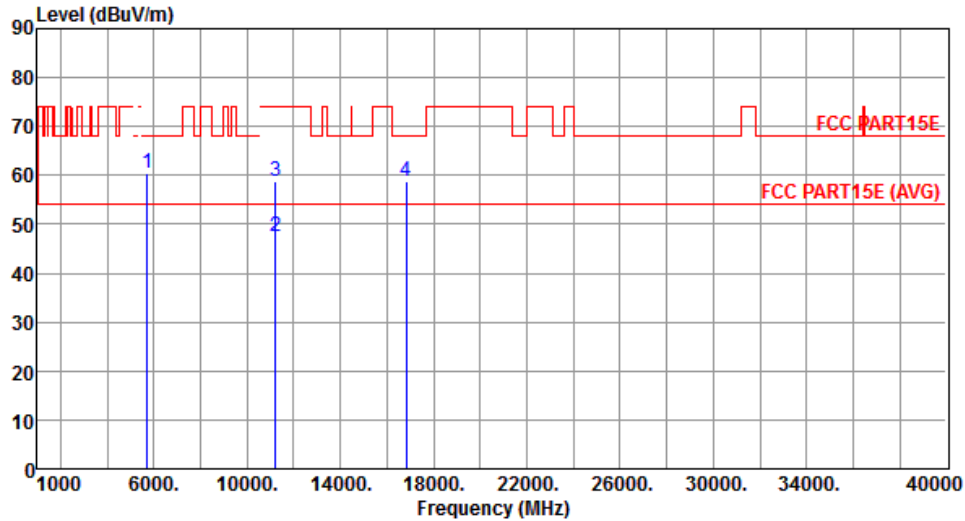
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	66.93	68.20	-1.27	59.86	7.07	Peak	---	---
2	11220.00	50.01	54.00	-3.99	32.37	17.64	Average	---	---
3	11220.00	60.89	74.00	-13.11	43.25	17.64	Peak	---	---
4	16830.00	58.24	68.20	-9.96	40.12	18.12	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)	5610
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



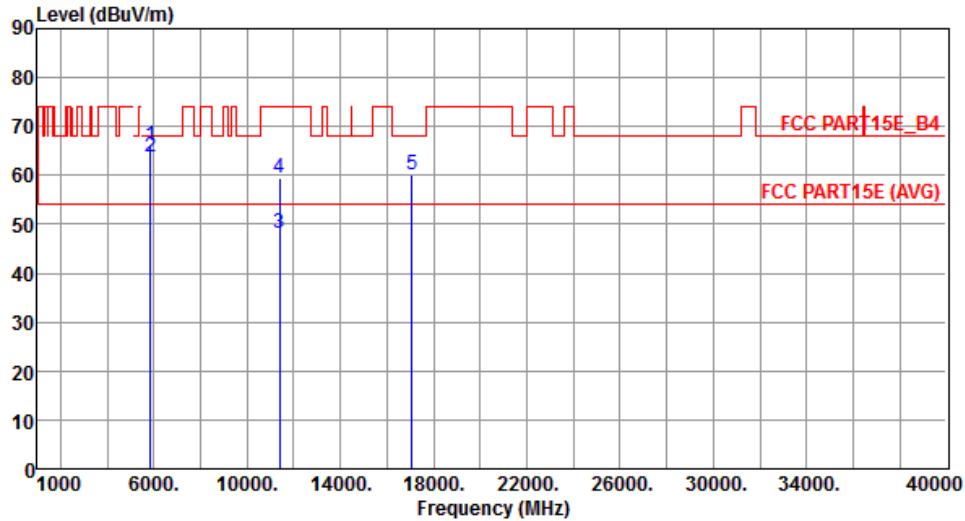
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	60.41	68.20	-7.79	53.34	7.07	Peak	---	---
2	11220.00	47.58	54.00	-6.42	29.94	17.64	Average	---	---
3	11220.00	58.92	74.00	-15.08	41.28	17.64	Peak	---	---
4	16830.00	58.78	68.20	-9.42	40.66	18.12	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)	5690
Polarization	Horizontal	Transmit Chains (N _{TX})	2Tx



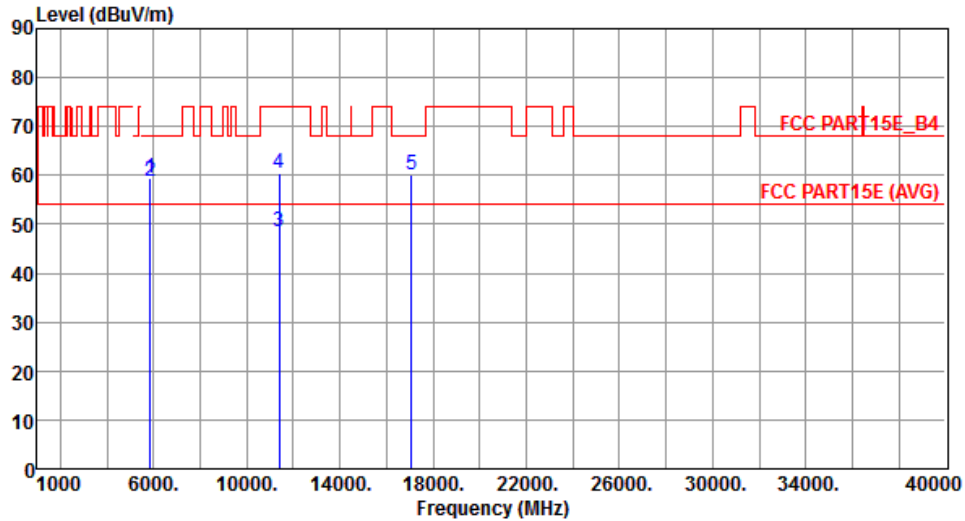
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	66.00	78.20	-12.20	58.78	7.22	Peak	---	---
2	5860.00	63.63	68.20	-4.57	56.40	7.23	Peak	---	---
3	11380.00	48.17	54.00	-5.83	30.78	17.39	Average	---	---
4	11380.00	59.36	74.00	-14.64	41.97	17.39	Peak	---	---
5	17070.00	60.09	68.20	-8.11	41.75	18.34	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)	5690
Polarization	Vertical	Transmit Chains (N _{TX})	2Tx



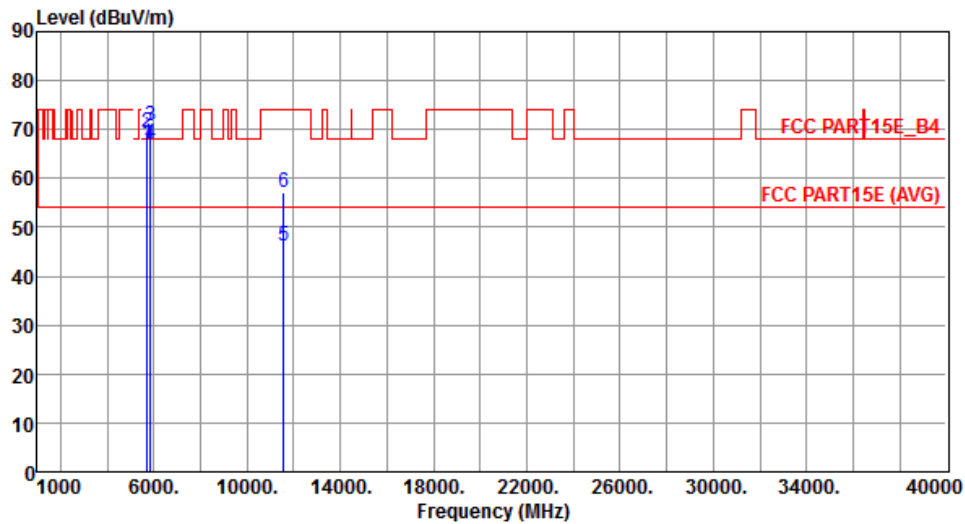
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	59.30	78.20	-18.90	52.08	7.22	Peak	---	---
2	5860.00	58.75	68.20	-9.45	51.52	7.23	Peak	---	---
3	11380.00	48.55	54.00	-5.45	31.16	17.39	Average	---	---
4	11380.00	60.35	74.00	-13.65	42.96	17.39	Peak	---	---
5	17070.00	60.05	68.20	-8.15	41.71	18.34	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	Transmit Chains (N _{TX})	2Tx



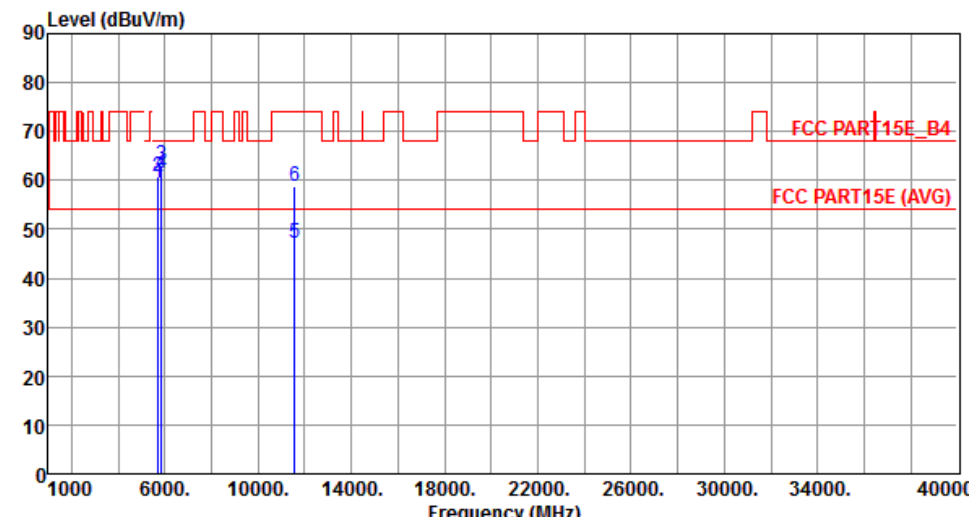
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	67.17	68.20	-1.03	60.10	7.07	Peak	---	---
2	5725.00	69.30	78.20	-8.90	62.23	7.07	Peak	---	---
3	5850.00	70.59	78.20	-7.61	63.37	7.22	Peak	---	---
4	5860.00	67.01	68.20	-1.19	59.78	7.23	Peak	---	---
5	11550.00	46.31	54.00	-7.69	29.19	17.12	Average	---	---
6	11550.00	56.98	74.00	-17.02	39.86	17.12	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	Transmit Chains (N _{TX})	2Tx



	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	59.37	68.20	-8.83	52.30	7.07	Peak	---	---
2	5725.00	60.73	78.20	-17.47	53.66	7.07	Peak	---	---
3	5850.00	63.18	78.20	-15.02	55.96	7.22	Peak	---	---
4	5860.00	61.44	68.20	-6.76	54.21	7.23	Peak	---	---
5	11550.00	47.02	54.00	-6.98	29.90	17.12	Average	---	---
6	11550.00	58.77	74.00	-15.23	41.65	17.12	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

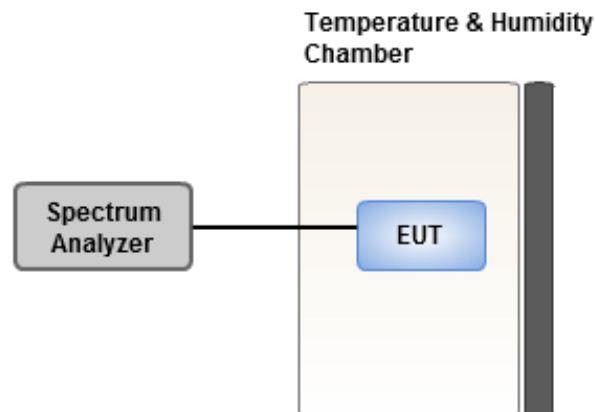
3.6.1 Limit of Frequency Stability

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: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	0.16	-0.03	0.89	0.54
T20°C Vmin	3.78	4.14	4.48	4.17
T60°C Vnom	3.99	3.83	3.98	4.25
T50°C Vnom	4.54	4.87	4.59	4.28
T40°C Vnom	-1.99	-1.44	-1.73	-1.73
T30°C Vnom	-0.17	0.70	-0.46	0.28
T20°C Vnom	0.35	0.48	0.80	0.44
T10°C Vnom	-0.03	-0.36	0.51	0.56
T0°C Vnom	-0.64	-0.26	-0.38	-0.79
T-10°C Vnom	-0.36	-0.73	-0.36	-0.06
T-20°C Vnom	-0.67	-0.02	-0.44	-0.10
T-30°C Vnom	-0.27	0.21	-0.70	-0.39
Vnom [Vac]: 120	Vmax [Vac]: 138			Vmin [Vac]: 102
Tnom [°C]: 20	Tmax [°C]: 60			Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	0.52	1.02	0.65	0.61
T20°C Vmin	4.52	4.73	4.70	4.76
T60°C Vnom	4.67	4.89	4.52	4.42
T50°C Vnom	3.10	3.40	3.31	2.74
T40°C Vnom	-2.41	-1.99	-1.66	-2.21
T30°C Vnom	1.09	1.38	1.31	1.79
T20°C Vnom	0.56	0.19	0.73	0.84
T10°C Vnom	0.18	0.16	0.85	0.43
T0°C Vnom	0.16	0.18	-0.17	-0.16
T-10°C Vnom	-0.41	0.08	-0.53	-0.85
T-20°C Vnom	-0.80	-0.74	-0.32	-0.69
T-30°C Vnom	-0.40	-0.01	-0.34	0.03
Vnom [Vac]: 120	Vmax [Vac]: 138			Vmin [Vac]: 102
Tnom [°C]: 20	Tmax [°C]: 60			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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