FCC Test Report

FCC ID	:	**U6Y-M120000017**
Equipment	:	**802.11a/n/ac 4x4 WiFi module**
Model No.	:	**M120000017**
Brand Name	:	**Panasonic**
Applicant	:	**Panasonic Avionics Corporation**
Address	:	**26200 ENTERPRISE WAY, LAKE FOREST, CA 92630-8400 USA**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Nov. 24, 2016**
Tested Date	:	**Dec. 05, 2016 ~ Mar. 17, 2017**

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Along Chen / Assistant Manager

Approved by:

Gary Chang / Manager

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
FR6N2402	Rev. 01	Initial issue	Mar. 30, 2017

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.154MHz 57.49(Margin -8.29dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5150.00MHz 73.00 (Margin -1.00dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: ***Non-beamforming mode*** 5150~5250MHz: 21.14 5250~5350MHz: 21.21 5470~5725MHz: 23.23 5725~5850MHz: 24.65 ***Beamforming mode*** 5150~5250MHz: 18.21 5250~5350MHz: 18.58 5470~5725MHz: 19.19 5725~5850MHz: 24.00	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]	4	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]	4	MCS 0-31
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]	4	MCS 0-31
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]	4	MCS 0-9
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]	4	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	4	MCS 0-9
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation. Note 3: 802.11ac supports beamforming function.					

1.1.2 Antenna Details

Ant. No.	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)			
			5150~5250	5250~5350	5470~5725	5725~5850
1	PIFA (5)	MMCX	4	4.4	4.2	4.8
2	PIFA (6)	MMCX	5.4	5.4	4.5	4.1
3	PIFA (7)	MMCX	5.9	4.8	4.5	4.2
4	PIFA (8)	MMCX	5.8	5.6	5.7	5.6

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc 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	Non-beamforming: QCARCT, v.3.0.138.0 / Beamforming: telnet				
Duty Cycle and Duty Factor	**Mode**	**Non-beamforming**		**Beamforming**	
		Duty cycle (%)	**Duty factor (dB)**	**Duty cycle (%)**	**Duty factor (dB)**
	11a	98.10%	0.08	---	---
	VHT20	99.63%	0.02	95.47%	0.20
	VHT40	98.39%	0.07	95.31%	0.21
	VHT80	95.25%	0.21	95.53%	0.20

1.1.7 Power Setting

For Frequency band 5150-5250 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5180	12	---
11a	5200	12	---
11a	5240	12	---
HT20	5180	12.5	---
HT20	5200	12.5	---
HT20	5240	12.5	---
HT40	5190	14	---
HT40	5230	14	---
VHT20	5180	12.5	18
VHT20	5200	12.5	18
VHT20	5240	12.5	18
VHT40	5190	14	17
VHT40	5230	14	17
VHT80	5210	14.5	17

For Frequency band 5250~5350 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5260	12	---
11a	5300	12	---
11a	5320	12	---
HT20	5260	12.5	---
HT20	5300	12.5	---
HT20	5320	12.5	---
HT40	5270	13.5	---
HT40	5310	12.5	---
VHT20	5260	12.5	18
VHT20	5300	12.5	18
VHT20	5320	12.5	18
VHT40	5270	13.5	18
VHT40	5310	12.5	18
VHT80	5290	11	17

For Frequency band 5470~5725 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5500	13	---
11a	5580	12.5	---
11a	5700	12	---
HT20	5500	13	---
HT20	5580	13	---
HT20	5700	12.5	---
HT40	5510	14.5	---
HT40	5550	14.5	---
HT40	5670	14.0	---
VHT20	5500	13	19
VHT20	5580	13	19
VHT20	5700	12.5	19
VHT40	5510	14.5	18
VHT40	5590	14.5	18
VHT40	5670	14.0	20
VHT80	5530	12.5	18
VHT80	5610	15.5	18

Channel that extends across the 5.725 GHz boundary

For Frequency band 5470~5725 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5720	11.5	---
HT20	5720	12	---
HT40	5710	14	---
VHT20	5720	12	18
VHT40	5710	14	19
VHT80	5690	16.5	18

For Frequency band 5725~5850 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5745	18	---
11a	5785	18	---
11a	5825	19	---
HT20	5745	18	---
HT20	5785	18	---
HT20	5825	19	---
HT40	5755	17	---
HT40	5795	17	---
VHT20	5745	18	24
VHT20	5785	18	24
VHT20	5825	19	25
VHT40	5755	17	23
VHT40	5795	17	23
VHT80	5775	14.5	20

1.2 Local Support Equipment List

Non-beamforming mode

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Signal cable / Length (m)**
1	Notebook	DELL	Latitude E6440	DoC	---
2	DC Power Supply	GWINSTEK	GPC-3060D	---	---
3	Extension Card	---	----	---	----

Beamforming mode

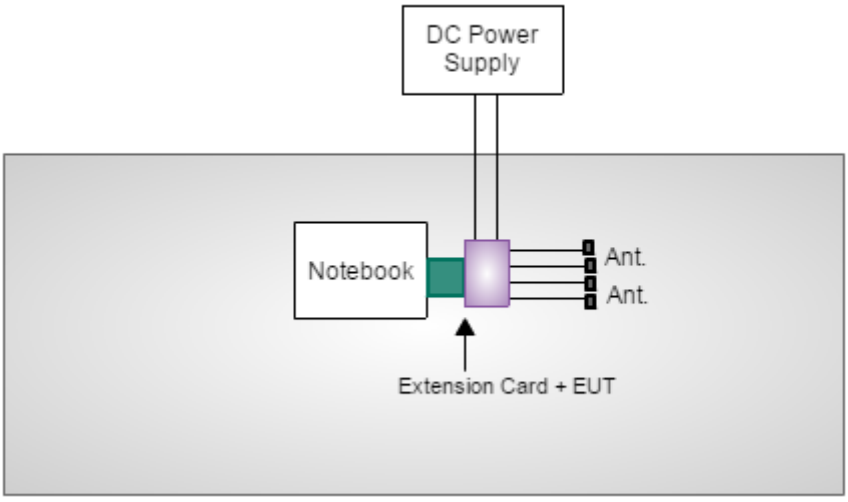
Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Signal cable / Length (m)**
1	Notebook	DELL	Latitude E6440	DoC	---
2	DC Power Supply	GWINSTEK	GPC-3060D	---	---
3	Extension Card	---	----	---	----
4	System	Panasonic	CWAP	---	----
5	AP	NETGEAR	R7800	---	----

Note: No.4 & No. 5 were supplied by applicant

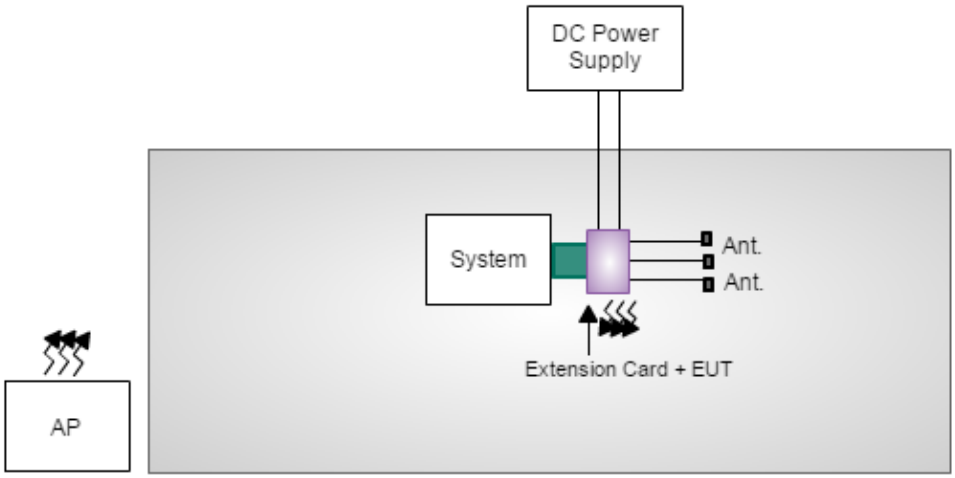
1.3 Test Setup Chart

Non-beamforming mode

Test Setup Diagram



Beamforming mode

Test Setup Diagram


1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Dec. 19, 2016				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Jan. 12, 2016	Jan. 11, 2017
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 08, 2016	Nov. 07, 2017
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 21, 2015	Dec. 20, 2016
Measurement Software	AUDIX	e3	6.120210k	NA	NA
ESH3-Z6 V-Network	R&S	ESH3-Z6(負極)	100951	Jan. 25, 2016	Jan. 24, 2017
ESH3-Z6 V-Network	R&S	ESH3-Z6(正極)	100920	Nov. 25, 2016	Nov. 24, 2017
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Tested Date	Dec. 05 ~ Dec. 16, 2016				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 09, 2016	Sep. 08, 2017
Receiver	Agilent	N9038A	MY53290044	Oct. 06, 2016	Oct. 05, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 26, 2016	Apr. 25, 2017
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 24, 2016	Feb. 23, 2017
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017
Preamplifier	EMC	EMC02325	980187	Sep. 08, 2016	Sep. 07, 2017
Preamplifier	Agilent	83017A	MY53270014	Aug. 22, 2016	Aug. 21, 2017
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 05, 2016	Feb. 04, 2017
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22600/4	Feb. 05, 2016	Feb. 04, 2017
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 05, 2016	Feb. 04, 2017
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 05, 2016	Feb. 04, 2017
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 05, 2016	Feb. 04, 2017
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 05, 2016	Feb. 04, 2017
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Dec. 20 ~ Dec. 30, 2016				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2016	Feb. 16, 2017
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 21, 2016	Nov. 20, 2017
Power Meter	Anritsu	ML2495A	1241002	Oct. 06, 2016	Oct. 05, 2017
Power Sensor	Anritsu	MA2411B	1207366	Oct. 06, 2016	Oct. 05, 2017
DC POWER SOURCE	GW INSTEK	GPC-6030D	EM892433	Oct. 20, 2016	Oct. 19, 2017
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 13 ~ Mar. 14, 2017				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Dec. 21, 2016	Dec. 20, 2017
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 08, 2016	Nov. 07, 2017
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Nov. 25, 2016	Nov. 24, 2017
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 20, 2016	Dec. 19, 2017
50 ohm terminal (Support Unit)	NA	50	04	Apr. 12, 2016	Apr. 11, 2017
Measurement Software	AUDIX	e3	6.120210k	NA	NA
ESH3-Z6 V-Network	R&S	ESH3-Z6(負極)	100951	Feb. 17, 2017	Feb. 16, 2018
ESH3-Z6 V-Network	R&S	ESH3-Z6(正極)	100920	Nov. 25, 2016	Nov. 24, 2017
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 15 ~ Mar. 17, 2017				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Mar. 15, 2017	Mar. 14, 2018
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 21, 2016	Nov. 20, 2017
Power Meter	Anritsu	ML2495A	1241002	Oct. 06, 2016	Oct. 05, 2017
Power Sensor	Anritsu	MA2411B	1207366	Oct. 06, 2016	Oct. 05, 2017
DC POWER SOURCE	GW INSTEK	GPC-6030D	EM892433	Oct. 20, 2016	Oct. 19, 2017
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Tested Date	Feb. 18 ~ Feb. 22, 2017				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 09, 2016	Sep. 08, 2017
Receiver	Agilent	N9038A	MY53290044	Oct. 06, 2016	Oct. 05, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 26, 2016	Apr. 25, 2017
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 09, 2017	Feb. 08, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 09, 2016	Dec. 08, 2017
Preamplifier	EMC	EMC02325	980187	Sep. 08, 2016	Sep. 07, 2017
Preamplifier	Agilent	83017A	MY53270014	Aug. 22, 2016	Aug. 21, 2017
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 04, 2017	Feb. 03, 2018
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22600/4	Feb. 04, 2017	Feb. 03, 2018
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 04, 2017	Feb. 03, 2018
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 04, 2017	Feb. 03, 2018
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 04, 2017	Feb. 03, 2018
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 04, 2017	Feb. 03, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

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

47 CFR FCC Part 15.407
ANSI C63.10-2013
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03
FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.134 Hz
Conducted power	±0.808 dB
Frequency error	±34.134 Hz
Power density	±0.463 dB
Conducted emission	±2.670 dB
AC conducted emission	±2.90 dB
Radiated emission ≤ 1GHz	±3.66 dB
Radiated emission > 1GHz	±5.37 dB
Time	±0.1%
Temperature	±0.6 ^{o}C

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	19°C / 20%	David Chiu
Radiated Emissions	03CH03-WS	21-24°C / 63-67%	Aska Huang Vincent Yeh
RF Conducted	TH01-WS	22-23°C / 64-65%	Alex Huang

- FCC Designation.: TW0009
- FCC site registration No.: 207696
- IC site registration No.: 10807C-1

2.2 The Worst Test Modes and Channel Details

Non-beamforming mode

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	5670	MCS 0	---
Radiated Emissions ≤1GHz	VHT40	5670	MCS 0	---
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	HT40	5190 / 5230/ 5270 / 5310 / 5510 5550 / 5670 / 5710	MCS 0	
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Frequency Stability	Un-modulation	5320	---	---

NOTE:

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

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

NOTE:

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

Beamforming mode

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	5670	MCS 0	Note 2
Radiated Emissions ≤1GHz	VHT40	5670	MCS 0	Note 2
RF Output Power	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	Note 2
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
2. Beamforming mode is powered by Power supply + System thus conducted emission is tested for each source, other test items are tested under Power supply + System.

Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate (Mbps) / MCS**	**Test Configuration**
Conducted Emissions	VHT40	5755	MCS 0	Note 2
Radiated Emissions ≤1GHz	VHT40	5755	MCS 0	Note 2
RF Output Power	VHT20	5745 / 5785 / 5825	MCS 0	Note 2
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	

NOTE:

3. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
4. Beamforming mode is powered by Power supply + System thus conducted emission is tested for each source, other test items are tested under Power supply + System.

3 Transmitter Test Results

3.1 Conducted Emissions

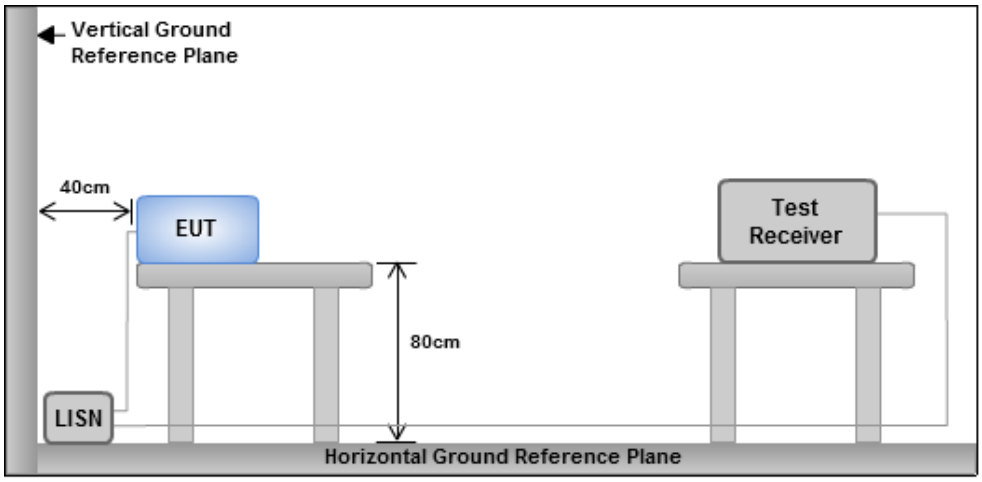
3.1.1 Limit of Conducted Emissions

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

3.1.2 Test Procedures

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

3.1.3 Test Setup

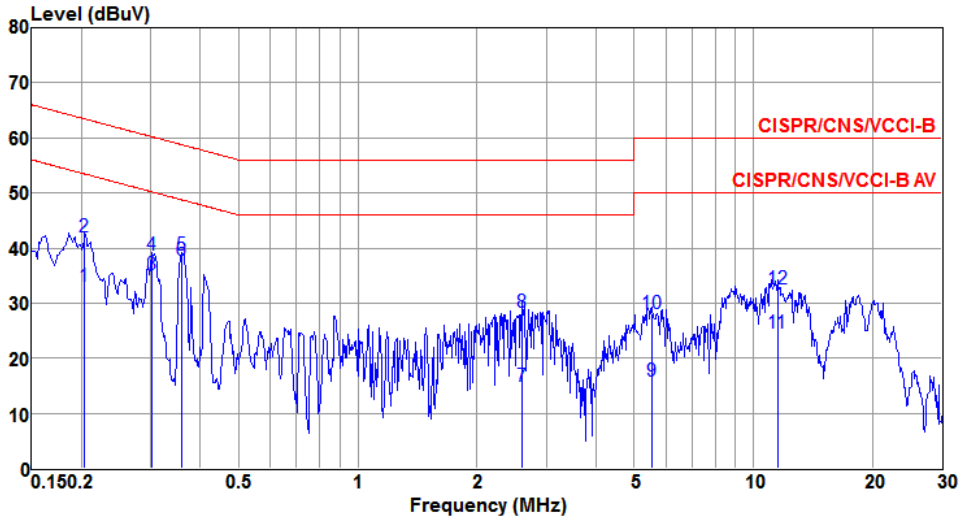


Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Non-beamforming mode

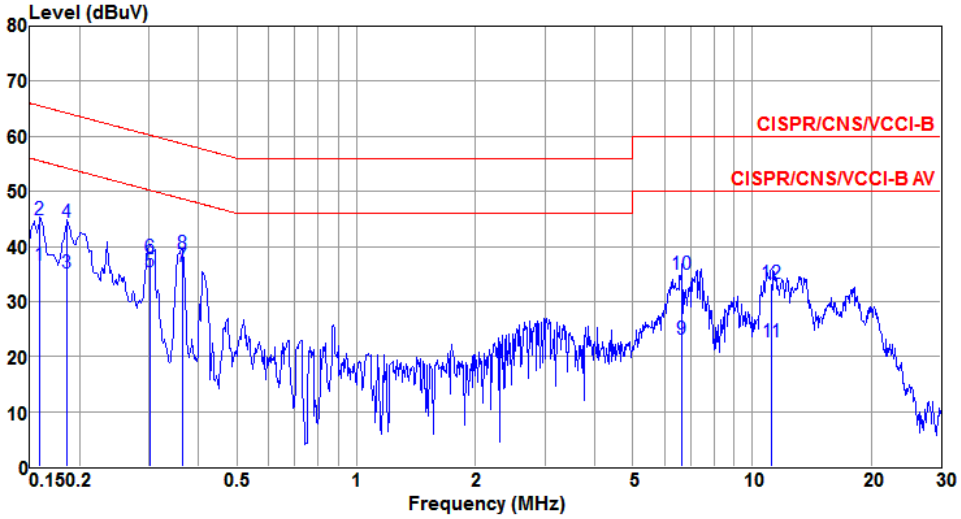
Modulation	VHT40	**Test Freq. (MHz)**	5670
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.204	33.10	53.45	-20.35	32.98	0.10	0.02	Average
2	0.204	41.94	63.45	-21.51	41.82	0.10	0.02	QP
3	0.300	35.14	50.24	-15.10	35.03	0.08	0.03	Average
4	0.300	38.68	60.24	-21.56	38.57	0.08	0.03	QP
5@	0.358	38.73	48.78	-10.05	38.63	0.07	0.03	Average
6	0.358	37.84	58.78	-20.94	37.74	0.07	0.03	QP
7	2.608	14.99	46.00	-31.01	14.74	0.15	0.10	Average
8	2.608	28.37	56.00	-27.63	28.12	0.15	0.10	QP
9	5.535	15.93	50.00	-34.07	15.62	0.18	0.13	Average
10	5.535	28.01	60.00	-31.99	27.70	0.18	0.13	QP
11	11.498	24.52	50.00	-25.48	24.10	0.24	0.18	Average
12	11.498	32.61	60.00	-27.39	32.19	0.24	0.18	QP

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

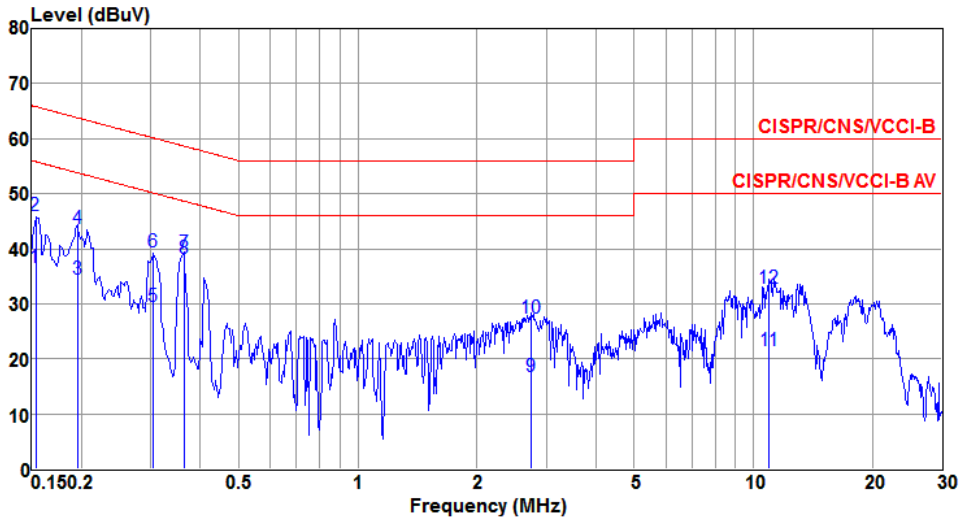
Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	36.64	55.52	-18.88	36.52	0.10	0.02	Average
2	0.159	44.74	65.52	-20.78	44.62	0.10	0.02	QP
3	0.186	35.25	54.20	-18.95	35.14	0.09	0.02	Average
4	0.186	44.33	64.20	-19.87	44.22	0.09	0.02	QP
5	0.300	35.39	50.24	-14.85	35.25	0.11	0.03	Average
6	0.300	37.92	60.24	-22.32	37.78	0.11	0.03	QP
7@	0.363	36.45	48.65	-12.20	36.30	0.12	0.03	Average
8	0.363	38.73	58.65	-19.92	38.58	0.12	0.03	QP
9	6.662	23.11	50.00	-26.89	22.74	0.23	0.14	Average
10	6.662	34.84	60.00	-25.16	34.47	0.23	0.14	QP
11	11.198	22.64	50.00	-27.36	22.14	0.33	0.17	Average
12	11.198	33.40	60.00	-26.60	32.90	0.33	0.17	QP

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

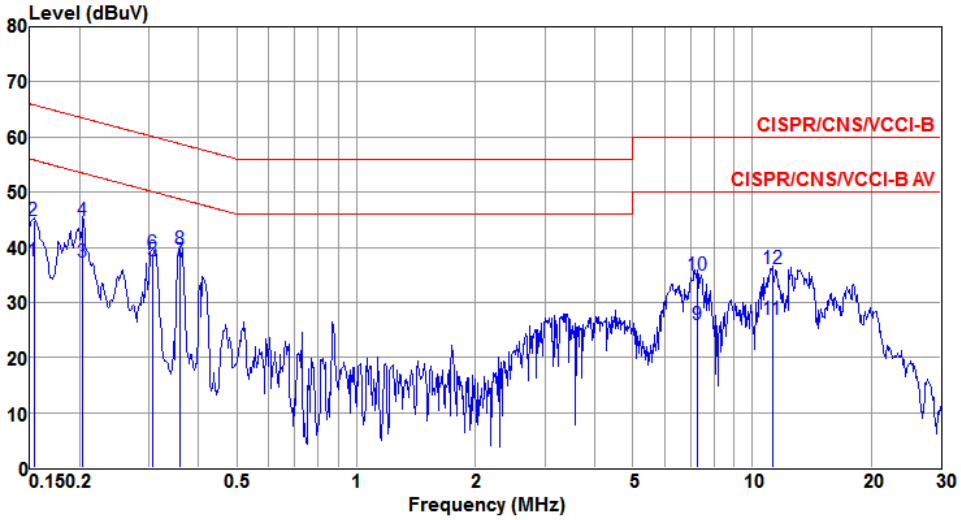
Modulation	VHT20	Test Freq. (MHz)	5825
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.153	36.63	55.82	-19.19	36.54	0.07	0.02	Average
2	0.153	46.09	65.82	-19.73	46.00	0.07	0.02	QP
3	0.195	34.44	53.80	-19.36	34.32	0.10	0.02	Average
4	0.195	43.68	63.80	-20.12	43.56	0.10	0.02	QP
5	0.303	29.42	50.15	-20.73	29.31	0.08	0.03	Average
6	0.303	39.34	60.15	-20.81	39.23	0.08	0.03	QP
7@	0.363	39.15	48.65	-9.50	39.05	0.07	0.03	Average
8	0.363	38.34	58.65	-20.31	38.24	0.07	0.03	QP
9	2.750	16.69	46.00	-29.31	16.44	0.15	0.10	Average
10	2.750	27.33	56.00	-28.67	27.08	0.15	0.10	QP
11	10.963	21.46	50.00	-28.54	21.06	0.23	0.17	Average
12	10.963	32.91	60.00	-27.09	32.51	0.23	0.17	QP

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

Modulation	VHT20	Test Freq. (MHz)	5825
Power Phase	Neutral		

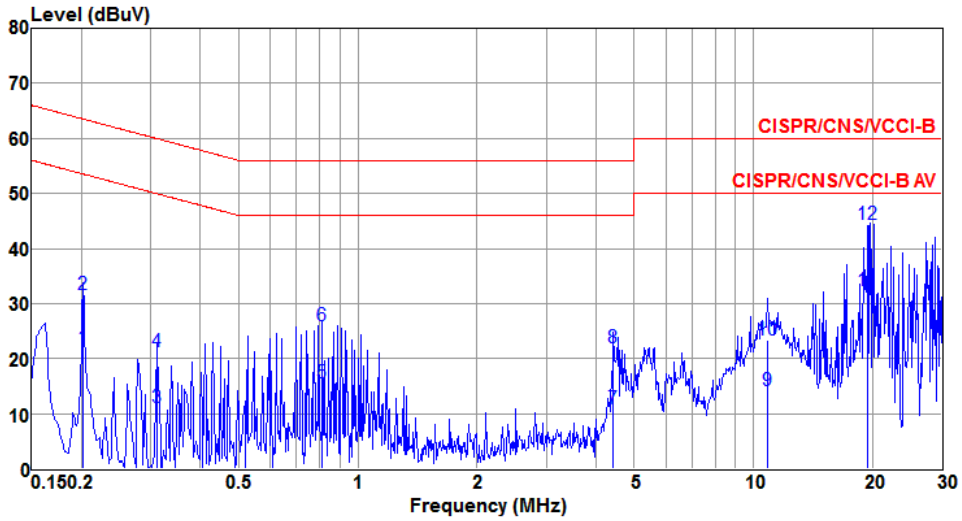


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.153	37.63	55.82	-18.19	37.51	0.10	0.02	Average
2	0.153	44.94	65.82	-20.88	44.82	0.10	0.02	QP
3	0.204	37.25	53.45	-16.20	37.14	0.09	0.02	Average
4	0.204	44.79	63.45	-18.66	44.68	0.09	0.02	QP
5	0.307	37.58	50.06	-12.48	37.44	0.11	0.03	Average
6	0.307	38.96	60.06	-21.10	38.82	0.11	0.03	QP
7@	0.358	37.63	48.78	-11.15	37.48	0.12	0.03	Average
8	0.358	39.76	58.78	-19.02	39.61	0.12	0.03	QP
9	7.252	25.87	50.00	-24.13	25.47	0.25	0.15	Average
10	7.252	34.83	60.00	-25.17	34.43	0.25	0.15	QP
11	11.257	26.81	50.00	-23.19	26.31	0.33	0.17	Average
12	11.257	36.18	60.00	-23.82	35.68	0.33	0.17	QP

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

Beamforming mode for power supply

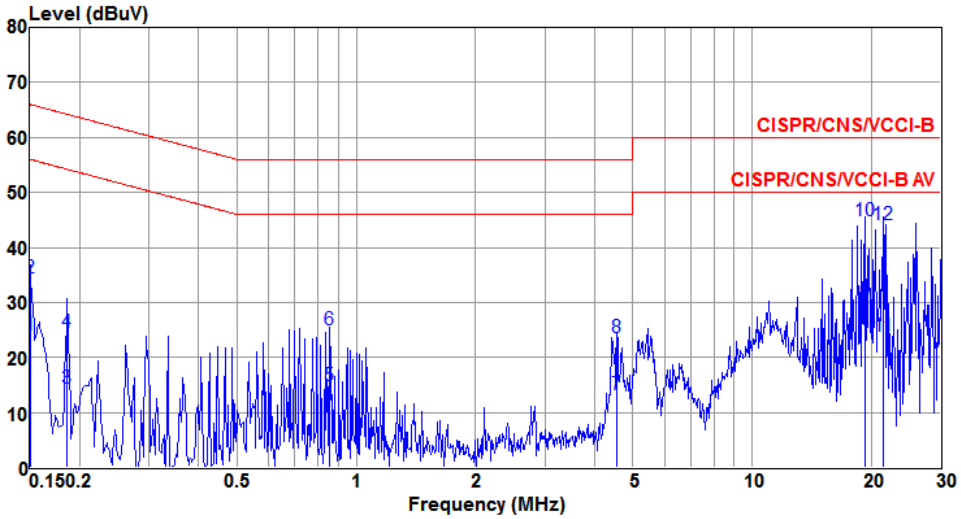
Modulation	VHT40	**Test Freq. (MHz)**	5670
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.202	21.88	53.54	-31.66	21.76	0.10	0.02	Average
2	0.202	31.54	63.54	-32.00	31.42	0.10	0.02	QP
3	0.310	11.11	49.97	-38.86	11.01	0.07	0.03	Average
4	0.310	21.16	59.97	-38.81	21.06	0.07	0.03	QP
5	0.813	15.58	46.00	-30.42	15.46	0.07	0.05	Average
6	0.813	25.89	56.00	-30.11	25.77	0.07	0.05	QP
7	4.430	10.91	46.00	-35.09	10.62	0.17	0.12	Average
8	4.430	21.94	56.00	-34.06	21.65	0.17	0.12	QP
9	10.847	14.08	50.00	-35.92	13.69	0.22	0.17	Average
10	10.847	23.35	60.00	-36.65	22.96	0.22	0.17	QP
11	19.375	32.34	50.00	-17.66	31.78	0.39	0.17	Average
12@	19.375	44.36	60.00	-15.64	43.80	0.39	0.17	QP

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

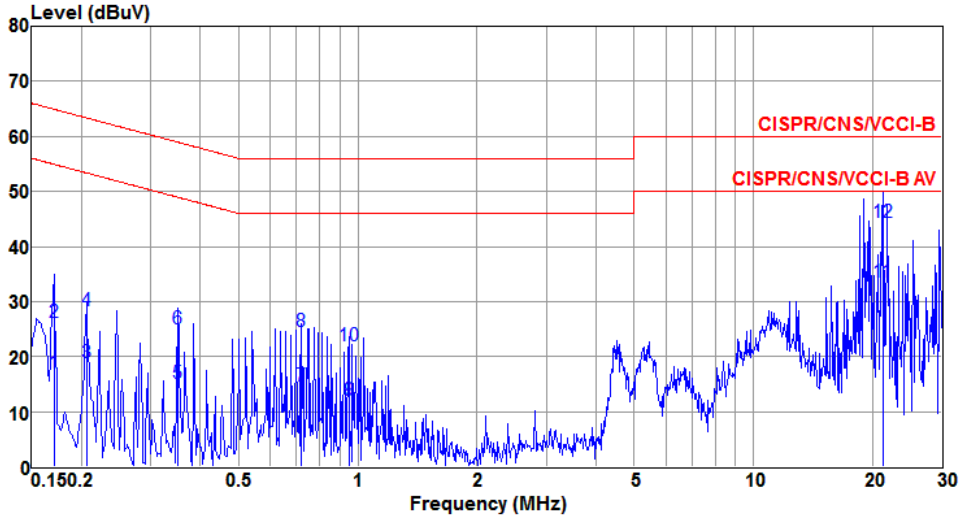
Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	24.12	56.00	-31.88	24.00	0.10	0.02	Average
2	0.150	34.45	66.00	-31.55	34.33	0.10	0.02	QP
3	0.186	14.34	54.20	-39.86	14.23	0.09	0.02	Average
4	0.186	24.47	64.20	-39.73	24.36	0.09	0.02	QP
5	0.853	14.85	46.00	-31.15	14.70	0.10	0.05	Average
6	0.853	24.92	56.00	-31.08	24.77	0.10	0.05	QP
7	4.549	13.16	46.00	-32.84	12.87	0.16	0.13	Average
8	4.549	23.66	56.00	-32.34	23.37	0.16	0.13	QP
9	19.326	30.04	50.00	-19.96	29.46	0.41	0.17	Average
10@	19.326	44.79	60.00	-15.21	44.21	0.41	0.17	QP
11	21.486	23.74	50.00	-26.26	23.12	0.42	0.20	Average
12	21.486	44.15	60.00	-15.85	43.53	0.42	0.20	QP

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

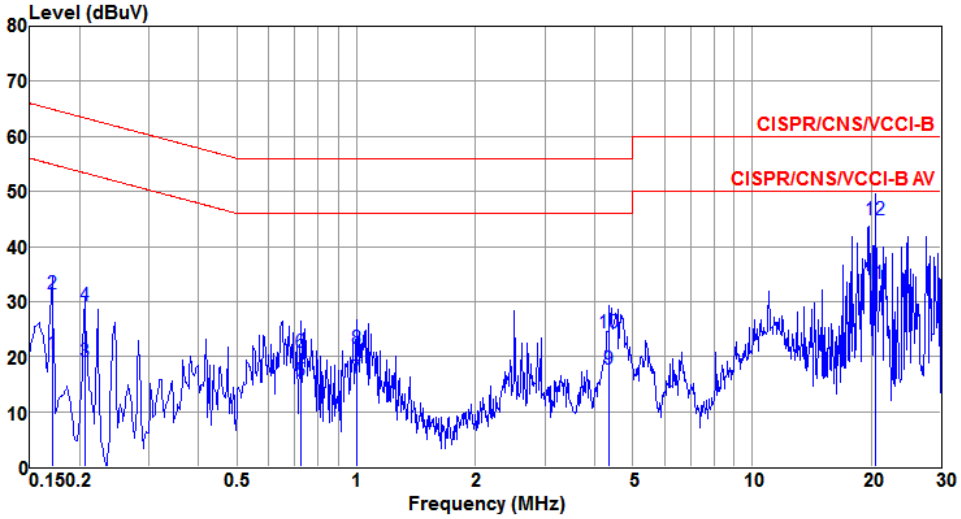
Modulation	VHT40	Test Freq. (MHz)	5755
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.170	16.97	54.94	-37.97	16.87	0.08	0.02	Average
2	0.170	26.17	64.94	-38.77	26.07	0.08	0.02	QP
3	0.206	18.89	53.36	-34.47	18.77	0.10	0.02	Average
4	0.206	28.39	63.36	-34.97	28.27	0.10	0.02	QP
5	0.350	15.02	48.96	-33.94	14.92	0.07	0.03	Average
6	0.350	24.97	58.96	-33.99	24.87	0.07	0.03	QP
7	0.720	14.65	46.00	-31.35	14.53	0.07	0.05	Average
8	0.720	24.60	56.00	-31.40	24.48	0.07	0.05	QP
9	0.948	11.94	46.00	-34.06	11.81	0.07	0.06	Average
10	0.948	22.00	56.00	-34.00	21.87	0.07	0.06	QP
11	21.260	33.53	50.00	-16.47	32.93	0.41	0.19	Average
12@	21.260	44.48	60.00	-15.52	43.88	0.41	0.19	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)	5755
Power Phase	Neutral		

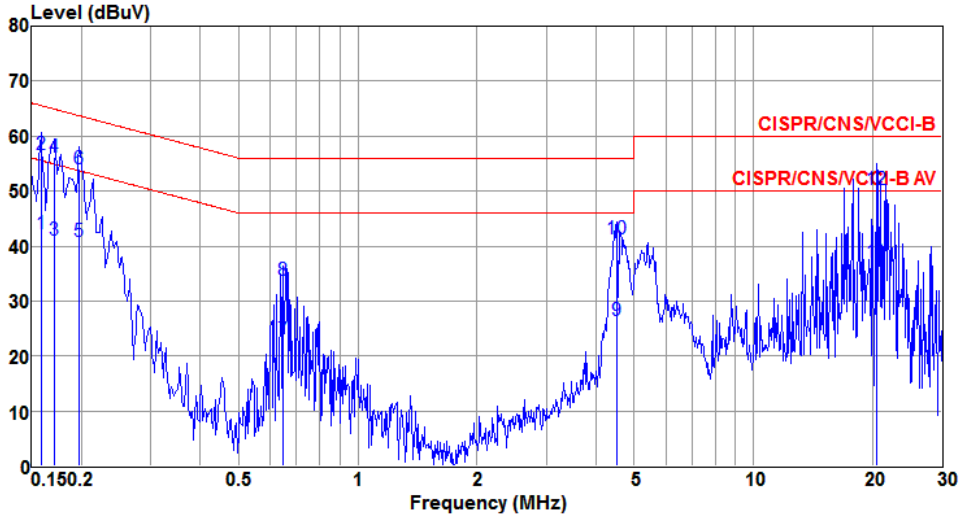


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.170	20.49	54.94	-34.45	20.37	0.10	0.02	Average
2	0.170	31.29	64.94	-33.65	31.17	0.10	0.02	QP
3	0.206	19.07	53.36	-34.29	18.96	0.09	0.02	Average
4	0.206	29.31	63.36	-34.05	29.20	0.09	0.02	QP
5	0.724	15.54	46.00	-30.46	15.39	0.10	0.05	Average
6	0.724	20.67	56.00	-35.33	20.52	0.10	0.05	QP
7	1.000	16.00	46.00	-30.00	15.85	0.09	0.06	Average
8	1.000	21.54	56.00	-34.46	21.39	0.09	0.06	QP
9	4.361	17.60	46.00	-28.40	17.32	0.16	0.12	Average
10	4.361	24.25	56.00	-31.75	23.97	0.16	0.12	QP
11	20.486	33.34	50.00	-16.66	32.75	0.41	0.18	Average
12@	20.486	44.92	60.00	-15.08	44.33	0.41	0.18	QP

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

Beamforming mode for system

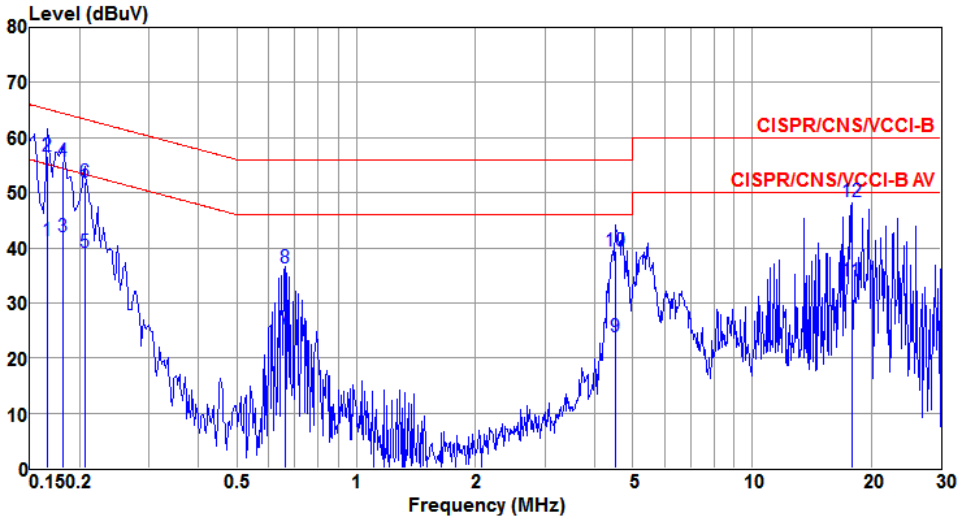
Modulation	VHT40	**Test Freq. (MHz)**	5670
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.158	42.36	55.56	-13.20	42.05	0.29	0.02	Average
2	0.158	56.65	65.56	-8.91	56.34	0.29	0.02	QP
3	0.170	40.98	54.94	-13.96	40.69	0.27	0.02	Average
4@	0.170	56.09	64.94	-8.85	55.80	0.27	0.02	QP
5	0.198	40.73	53.71	-12.98	40.49	0.22	0.02	Average
6	0.198	54.08	63.71	-9.63	53.84	0.22	0.02	QP
7	0.647	22.79	46.00	-23.21	22.59	0.15	0.05	Average
8	0.647	33.87	56.00	-22.13	33.67	0.15	0.05	QP
9	4.525	26.35	46.00	-19.65	26.06	0.16	0.13	Average
10	4.525	41.19	56.00	-14.81	40.90	0.16	0.13	QP
11	20.457	37.01	50.00	-12.99	36.56	0.27	0.18	Average
12	20.457	50.17	60.00	-9.83	49.72	0.27	0.18	QP

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

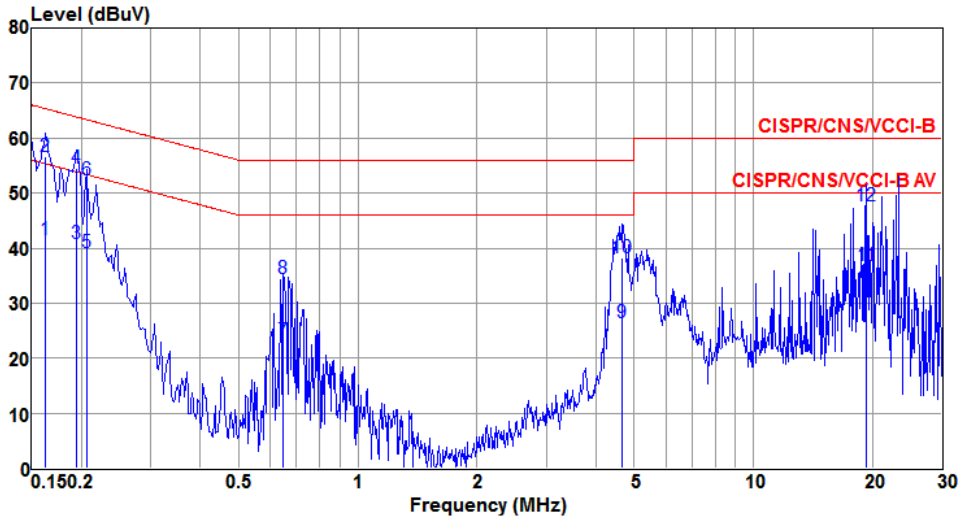
Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.166	41.23	55.16	-13.93	40.89	0.32	0.02	Average
2@	0.166	56.64	65.16	-8.52	56.30	0.32	0.02	QP
3	0.182	41.92	54.42	-12.50	41.61	0.29	0.02	Average
4	0.182	55.68	64.42	-8.74	55.37	0.29	0.02	QP
5	0.206	39.20	53.36	-14.16	38.93	0.25	0.02	Average
6	0.206	51.98	63.36	-11.38	51.71	0.25	0.02	QP
7	0.661	25.28	46.00	-20.72	25.10	0.13	0.05	Average
8	0.661	36.41	56.00	-19.59	36.23	0.13	0.05	QP
9	4.501	23.95	46.00	-22.05	23.71	0.12	0.12	Average
10	4.501	39.40	56.00	-16.60	39.16	0.12	0.12	QP
11	17.830	33.93	50.00	-16.07	33.52	0.22	0.19	Average
12	17.830	48.46	60.00	-11.54	48.05	0.22	0.19	QP

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

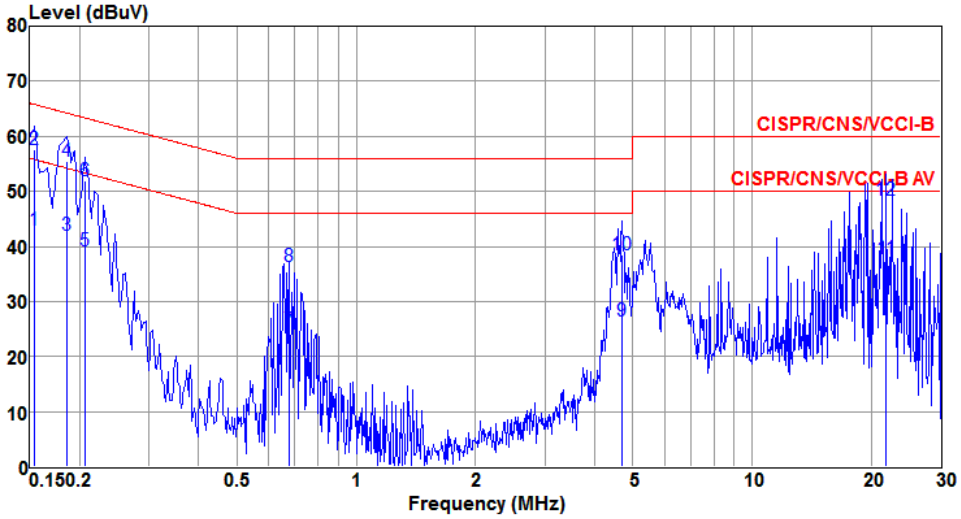
Modulation	VHT40	Test Freq. (MHz)	5755
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.162	41.55	55.34	-13.79	41.25	0.28	0.02	Average
2@	0.162	56.57	65.34	-8.77	56.27	0.28	0.02	QP
3	0.194	40.87	53.84	-12.97	40.62	0.23	0.02	Average
4	0.194	54.62	63.84	-9.22	54.37	0.23	0.02	QP
5	0.206	39.22	53.36	-14.14	38.98	0.22	0.02	Average
6	0.206	52.33	63.36	-11.03	52.09	0.22	0.02	QP
7	0.647	23.25	46.00	-22.75	23.05	0.15	0.05	Average
8	0.647	34.43	56.00	-21.57	34.23	0.15	0.05	QP
9	4.672	26.47	46.00	-19.53	26.18	0.16	0.13	Average
10	4.672	38.22	56.00	-17.78	37.93	0.16	0.13	QP
11	19.357	36.87	50.00	-13.13	36.43	0.27	0.17	Average
12	19.357	47.66	60.00	-12.34	47.22	0.27	0.17	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)	5755
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.154	43.02	55.78	-12.76	42.65	0.35	0.02	Average
2@	0.154	57.49	65.78	-8.29	57.12	0.35	0.02	QP
3	0.186	41.93	54.20	-12.27	41.63	0.28	0.02	Average
4	0.186	55.48	64.20	-8.72	55.18	0.28	0.02	QP
5	0.206	39.09	53.36	-14.27	38.82	0.25	0.02	Average
6	0.206	52.01	63.36	-11.35	51.74	0.25	0.02	QP
7	0.675	24.82	46.00	-21.18	24.64	0.13	0.05	Average
8	0.675	36.46	56.00	-19.54	36.28	0.13	0.05	QP
9	4.696	26.47	46.00	-19.53	26.21	0.13	0.13	Average
10	4.696	38.37	56.00	-17.63	38.11	0.13	0.13	QP
11	21.860	37.77	50.00	-12.23	37.34	0.23	0.20	Average
12	21.860	48.43	60.00	-11.57	48.00	0.23	0.20	QP

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

3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

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

3.2.2 Test Procedures

26dB Bandwidth

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

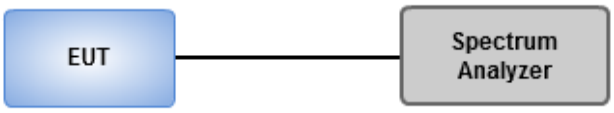
Occupied Bandwidth

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

6dB Bandwidth

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

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

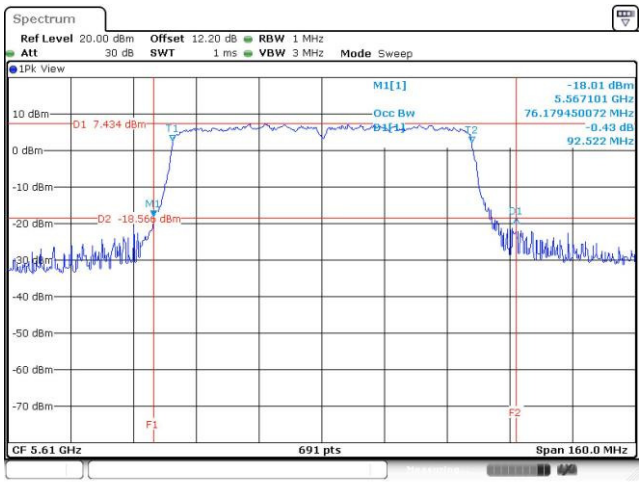
Non-beamforming mode

For Frequency band 5150~5250 MHz										
Emission Bandwidth										
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
11a	4	5180	20.06	20.29	20.00	20.00	16.48	16.48	16.44	16.44
11a	4	5200	20.23	20.29	20.12	20.06	16.46	16.48	16.44	16.43
11a	4	5240	20.29	20.29	20.17	20.17	16.45	16.46	16.44	16.45
VHT20	4	5180	20.81	20.87	20.70	20.41	17.62	17.65	17.62	17.61
VHT20	4	5200	20.81	21.04	20.70	20.46	17.62	17.63	17.62	17.60
VHT20	4	5240	20.64	20.93	20.70	20.64	17.61	17.64	17.62	17.62
VHT40	4	5190	40.58	40.58	40.23	40.12	36.08	36.02	36.02	36.00
VHT40	4	5230	40.35	40.70	40.00	40.12	36.02	36.04	36.06	35.98
VHT80	4	5210	86.96	85.57	87.88	85.57	76.08	76.00	76.24	76.12

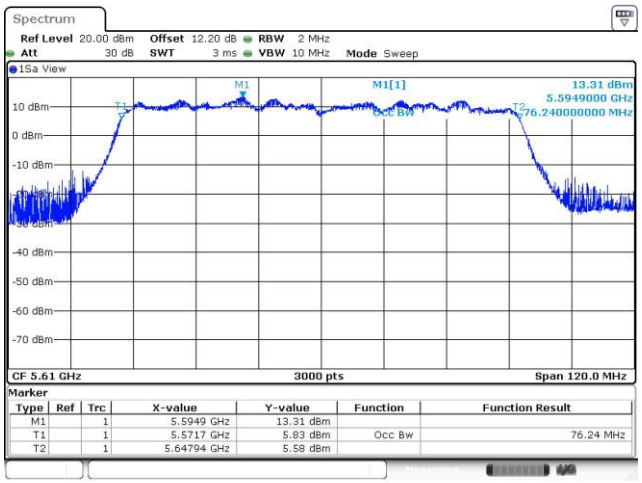
For Frequency band 5250~5350 MHz											
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	4	5260	20.23	20.29	20.23	20.17	16.48	16.48	16.46	16.46	24.00
11a	4	5300	20.23	20.23	19.94	20.29	16.48	16.48	16.47	16.47	24.00
11a	4	5320	20.29	19.77	19.94	20.12	16.46	16.47	16.44	16.45	23.96
VHT20	4	5260	20.75	20.87	20.81	20.70	17.60	17.62	17.61	17.62	24.00
VHT20	4	5300	20.81	20.99	20.64	20.64	17.60	17.61	17.60	17.61	24.00
VHT20	4	5320	20.58	20.75	20.75	20.64	17.59	17.62	17.61	17.63	24.00
VHT40	4	5270	40.58	40.46	40.35	40.23	35.98	35.96	35.98	35.92	24.00
VHT40	4	5310	40.35	40.46	40.23	40.12	36.00	35.96	35.90	35.96	24.00
VHT80	4	5290	85.80	84.41	90.20	88.35	76.04	75.88	76.00	76.08	24.00

For 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	4	5500	20.00	19.71	19.77	20.00	16.45	16.41	16.45	16.45	23.95
11a	4	5580	20.06	19.71	19.71	20.00	16.46	16.41	16.42	16.45	23.95
11a	4	5700	20.06	20.29	19.59	19.65	16.46	16.48	16.43	16.38	23.92
VHT20	4	5500	20.70	20.41	20.70	20.58	17.59	17.58	17.60	17.62	24.00
VHT20	4	5580	19.94	19.77	19.65	20.12	17.60	17.57	17.59	17.61	23.93
VHT20	4	5700	20.64	20.75	20.58	20.29	17.60	17.63	17.58	17.54	24.00
VHT40	4	5510	40.58	40.70	40.46	40.35	35.98	36.04	35.94	35.96	24.00
VHT40	4	5590	40.70	40.70	40.23	40.58	36.02	35.96	35.96	35.96	24.00
VHT40	4	5670	40.46	40.81	40.46	40.23	35.92	36.00	35.96	35.98	24.00
VHT80	4	5530	88.81	91.83	90.67	84.64	76.04	76.20	76.08	76.16	24.00
VHT80	4	5610	92.52	91.36	89.74	90.67	75.96	76.04	76.04	76.24	24.00

Worst Plot of 26dB Bandwidth



Worst Plot of 99% Bandwidth



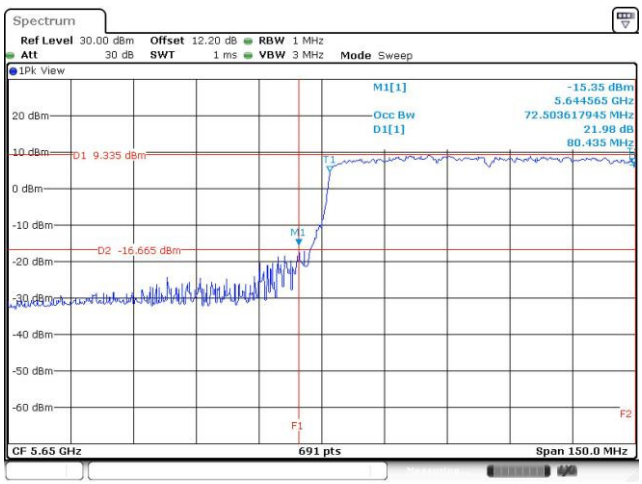
Channel that extends across the 5.725 GHz boundary

Frequency band			UNII Emission Bandwidth Result (Within 5470-5725MHz band)								
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	4	5720	15.15	15.09	15.03	14.66	13.27	13.28	13.24	13.23	22.66
VHT20	4	5720	15.21	15.21	15.28	15.15	13.84	13.86	13.83	13.82	22.80
VHT40	4	5710	35.10	35.10	35.20	35.10	32.97	32.93	32.99	33.01	24.00
VHT80	4	5690	77.61	78.48	80.44	77.61	72.86	73.02	73.22	72.86	24.00

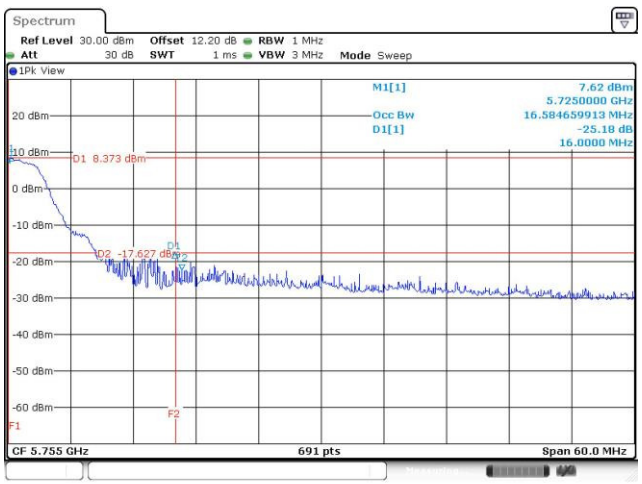
Frequency band			UNII Emission Bandwidth Result (Extends across 5725MHz band)								
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	4	5720	5.17	5.17	5.15	5.02	3.21	3.22	3.19	3.15	30.00
VHT20	4	5720	5.57	5.72	5.37	5.11	3.77	3.79	3.76	3.74	30.00
VHT40	4	5710	5.62	5.74	5.33	5.45	2.97	2.99	2.95	2.95	30.00
VHT80	4	5690	15.30	13.04	14.52	16.00	3.06	3.06	2.98	3.02	30.00

Worst Plots

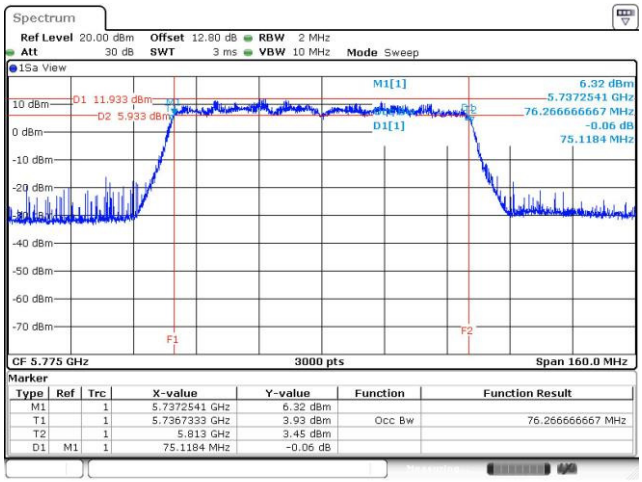
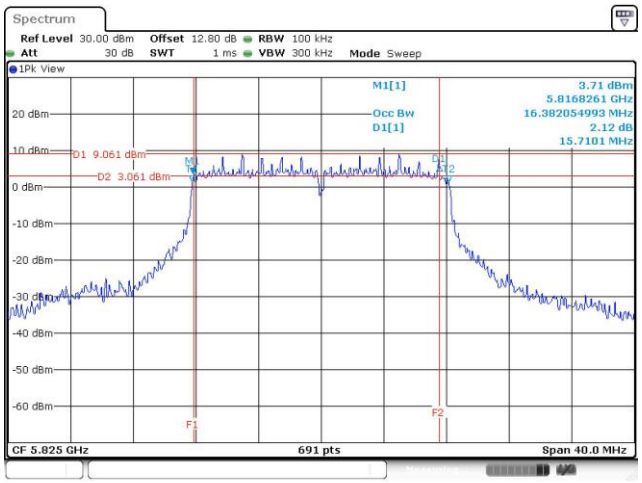
Within 5470-5725MHz band



Extends across 5725MHz band



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	4	5745	16.45	16.51	16.43	16.40	16.29	16.29	16.29	15.88	0.5
11a	4	5785	16.47	16.52	16.43	16.41	16.29	16.29	16.00	15.88	0.5
11a	4	5825	16.49	16.56	16.44	16.43	16.06	16.29	16.29	15.71	0.5
VHT20	4	5745	17.60	17.65	17.60	17.56	16.81	17.57	17.16	16.29	0.5
VHT20	4	5785	17.60	17.65	17.60	17.57	17.16	17.57	16.52	16.52	0.5
VHT20	4	5825	17.61	17.69	17.60	17.61	16.52	16.99	16.52	16.52	0.5
VHT40	4	5755	35.95	36.00	36.03	36.08	35.13	35.01	35.13	35.13	0.5
VHT40	4	5795	35.97	36.00	35.97	36.05	35.13	35.13	35.13	35.13	0.5
VHT80	4	5775	76.05	76.00	76.21	76.27	75.13	75.13	75.13	75.13	0.5

Worst Plot of 99% Bandwidth	Worst Plot of 6dB Bandwidth
	

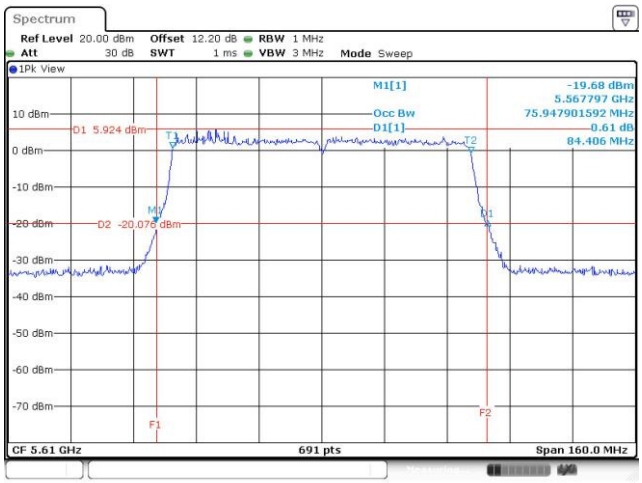
Beamforming mode

For Frequency band 5150~5250 MHz										
Emission Bandwidth										
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
VHT20	4	5180	20.70	20.87	20.75	21.16	17.66	17.69	17.67	17.66
VHT20	4	5200	20.75	20.87	20.99	21.04	17.66	17.67	17.68	17.67
VHT20	4	5240	20.58	20.99	20.93	20.75	17.66	17.69	17.67	17.67
VHT40	4	5190	40.00	39.77	40.35	40.00	36.04	36.04	36.10	36.10
VHT40	4	5230	39.65	39.84	40.12	39.88	36.10	36.08	36.41	36.22
VHT80	4	5210	83.71	83.71	84.17	84.17	76.28	76.08	76.12	76.24

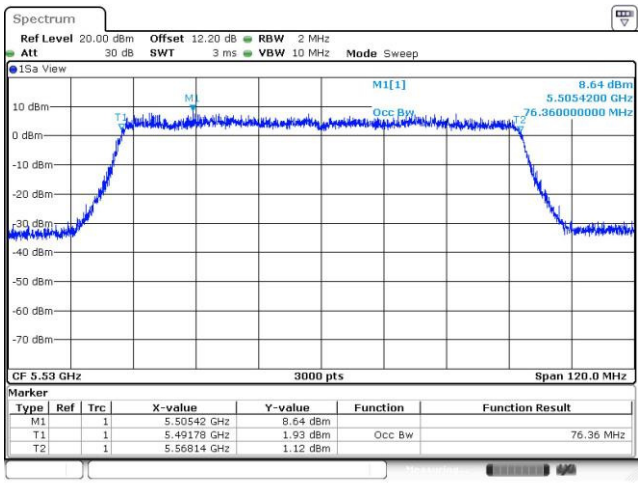
For Frequency band 5250~5350 MHz											
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
VHT20	4	5260	21.33	20.99	20.75	21.16	17.66	17.68	17.68	17.67	24.00
VHT20	4	5300	20.75	21.10	20.70	20.81	17.67	17.69	17.66	17.68	24.00
VHT20	4	5320	21.22	20.81	20.99	21.04	17.64	17.68	17.62	17.67	24.00
VHT40	4	5270	40.23	40.12	39.77	39.88	36.16	36.14	36.24	36.14	24.00
VHT40	4	5310	40.23	40.00	40.00	40.23	36.08	36.12	36.20	36.08	24.00
VHT80	4	5290	83.01	83.01	83.71	83.48	76.36	76.04	76.20	76.08	24.00

For 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	
VHT20	4	5500	20.87	20.58	20.52	20.87	17.64	17.60	17.62	17.66	24.00
VHT20	4	5580	20.58	20.58	20.99	20.99	17.67	17.61	17.61	17.64	24.00
VHT20	4	5700	20.64	20.93	20.64	20.87	17.66	17.71	17.69	17.64	24.00
VHT40	4	5510	39.88	39.77	39.65	40.12	36.06	36.22	36.08	36.12	24.00
VHT40	4	5590	39.88	40.23	39.65	40.12	36.18	36.28	36.08	36.10	24.00
VHT40	4	5670	40.23	39.77	39.88	40.00	36.16	36.14	36.10	36.16	24.00
VHT80	4	5530	83.71	83.25	83.48	83.25	76.32	76.36	76.24	76.12	24.00
VHT80	4	5610	84.41	83.48	84.41	83.01	76.20	76.24	76.08	76.16	24.00

Worst Plot of 26dB Bandwidth



Worst Plot of 99% Bandwidth

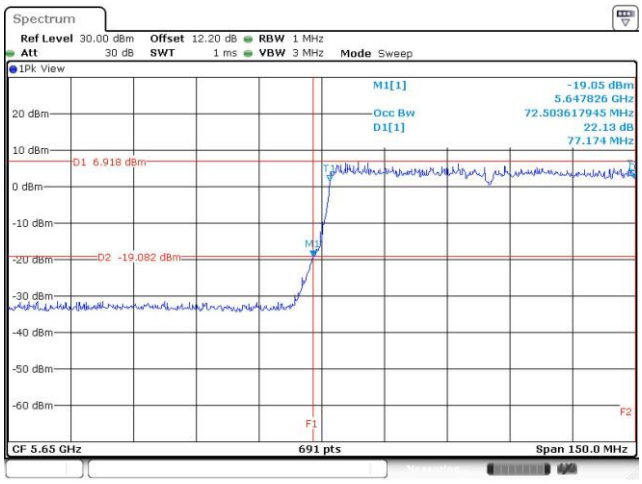
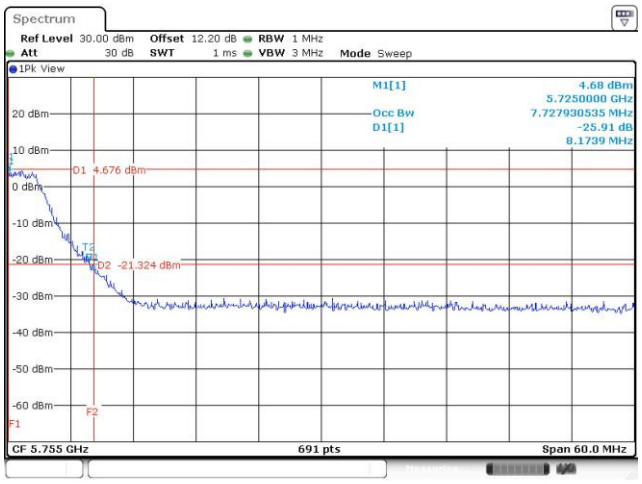


Channel that extends across the 5.725 GHz boundary

Frequency band			UNII Emission Bandwidth Result (Within 5470-5725MHz band)								
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
VHT20	4	5720	15.09	15.21	15.15	15.09	13.88	13.88	13.88	13.84	22.79
VHT40	4	5710	34.90	34.90	34.90	34.90	33.03	32.93	33.03	33.07	24.00
VHT80	4	5690	76.96	76.74	77.17	76.74	73.06	73.10	73.26	73.18	24.00

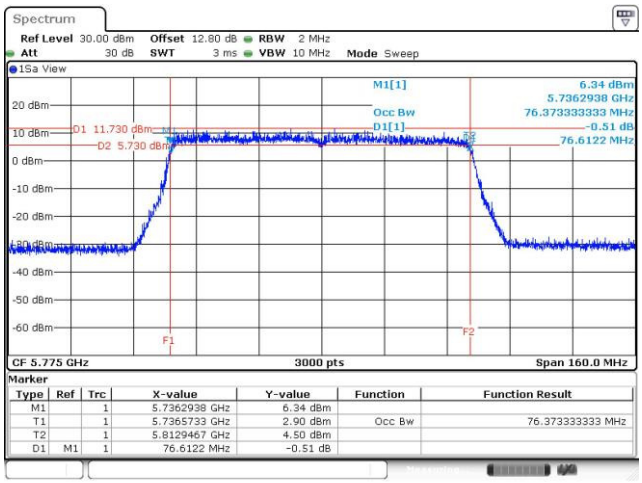
Frequency band			UNII Emission Bandwidth Result (Extends across 5725MHz band)								
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
VHT20	4	5720	5.80	5.54	5.46	5.50	3.82	3.83	3.82	3.80	30.00
VHT40	4	5710	5.16	5.28	5.04	5.28	3.17	3.19	3.09	3.11	30.00
VHT80	4	5690	8.17	7.57	8.09	7.91	3.22	3.14	3.02	3.10	30.00

Worst Plots

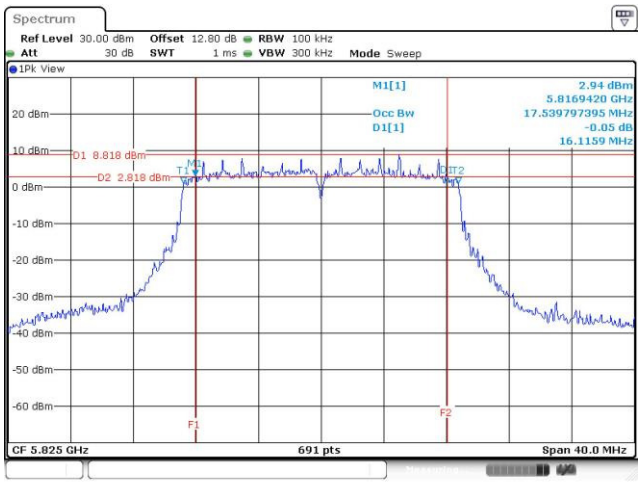
Within 5470-5725MHz band	Extends across 5725MHz band
	

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)
VHT20	4	5745	17.65	17.71	17.68	17.61	16.75	17.28	17.10	16.29	0.5
VHT20	4	5785	17.65	17.73	17.68	17.61	16.87	16.87	16.99	16.58	0.5
VHT20	4	5825	17.67	17.71	17.71	17.63	16.87	16.87	17.10	16.12	0.5
VHT40	4	5755	36.24	36.03	36.05	36.11	35.71	35.71	35.59	35.71	0.5
VHT40	4	5795	36.16	36.11	36.21	36.11	35.71	34.55	35.71	35.36	0.5
VHT80	4	5775	76.21	76.21	76.37	76.21	75.83	75.83	75.83	75.83	0.5

Worst Plot of 99% Bandwidth



Worst Plot 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
☒	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

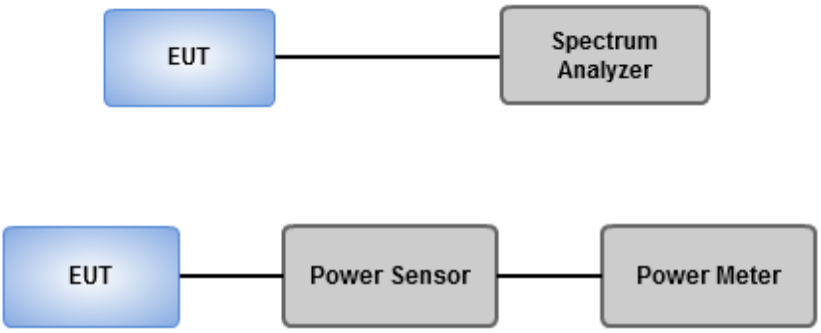
☒ Power meter (For channel that does not extends across the 5.725 GHz boundary)

☒ 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

Non-beamforming mode

For Frequency band 5150~5250 MHz									
Mode	N_{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	4	5180	12.37	12.83	12.28	12.52	71.214	18.53	24.00
11a	4	5200	12.33	12.65	12.16	12.35	69.131	18.40	24.00
11a	4	5240	12.20	12.33	12.02	12.29	66.561	18.23	24.00
HT20	4	5180	12.57	13.15	12.74	12.88	76.928	18.86	24.00
HT20	4	5200	12.55	12.9	12.39	12.54	72.773	18.62	24.00
HT20	4	5240	12.47	12.63	12.22	12.81	71.755	18.56	24.00
HT40	4	5190	15.28	15.22	14.54	14.91	126.413	21.02	24.00
HT40	4	5230	15.01	15.04	14.48	14.87	122.356	20.88	24.00
VHT20	4	5180	12.60	13.19	12.77	12.91	77.509	18.89	24.00
VHT20	4	5200	12.58	12.93	12.43	12.58	73.359	18.65	24.00
VHT20	4	5240	12.5	12.66	12.25	12.86	72.341	18.59	24.00
VHT40	4	5190	15.02	15.45	14.77	15.2	129.949	21.14	24.00
VHT40	4	5230	15.05	15.07	14.52	14.91	123.414	20.91	24.00
VHT80	4	5210	15.37	14.77	15.31	14.96	129.722	21.13	24.00

For Frequency band 5250~5350 MHz									
Mode	N_{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	4	5260	12.78	12.89	12.88	12.62	76.111	18.81	24.00
11a	4	5300	12.52	12.56	13.21	12.74	75.629	18.79	24.00
11a	4	5320	12.19	12.07	12.85	12.43	69.438	18.42	23.96
HT20	4	5260	13.21	13.24	13.32	13.01	83.504	19.22	24.00
HT20	4	5300	12.74	12.69	13.32	12.81	77.948	18.92	24.00
HT20	4	5320	12.35	12.06	13.04	12.51	71.210	18.53	24.00
HT40	4	5270	15.04	14.81	15.28	15.01	127.609	21.06	24.00
HT40	4	5310	13.81	13.19	14.51	13.82	97.236	19.88	24.00
VHT20	4	5260	13.3	13.33	13.41	13.1	85.253	19.31	24.00
VHT20	4	5300	12.87	12.8	13.41	12.9	79.845	19.02	24.00
VHT20	4	5320	12.49	12.14	13.17	12.62	73.140	18.64	24.00
VHT40	4	5270	15.16	14.92	15.52	15.12	132.009	21.21	24.00
VHT40	4	5310	13.93	13.31	14.63	13.94	99.961	20.00	24.00
VHT80	4	5290	11.78	11.54	12.21	11.91	61.480	17.89	24.00

For Frequency band 5470~5725 MHz									
Mode	N_{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	4	5500	12.98	12.41	13.44	12.46	76.979	18.86	23.95
11a	4	5580	12.62	12.38	12.85	12.43	72.353	18.59	23.95
11a	4	5700	12.75	12.70	12.8	12.63	74.835	18.74	23.92
HT20	4	5500	12.54	11.92	13.13	12.24	70.815	18.50	24.00
HT20	4	5580	12.82	12.26	12.64	13.02	74.379	18.71	23.93
HT20	4	5700	12.94	12.92	13.01	12.82	78.408	18.94	24.00
HT40	4	5510	15.63	14.11	15.12	15.86	133.379	21.25	24.00
HT40	4	5590	15.41	14.42	15.12	15.81	133.038	21.24	24.00
HT40	4	5670	15.86	15.02	15.78	15.15	140.895	21.49	24.00
VHT20	4	5500	12.65	12.03	13.2	12.31	72.281	18.59	24.00
VHT20	4	5580	12.94	12.38	12.75	13.11	76.278	18.82	23.93
VHT20	4	5700	13.06	13.03	13.13	12.94	80.559	19.06	24.00
VHT40	4	5510	15.76	14.22	15.23	15.98	137.065	21.37	24.00
VHT40	4	5590	15.54	14.58	15.26	15.92	137.175	21.37	24.00
VHT40	4	5670	15.98	15.13	15.91	15.28	144.934	**21.61**	24.00
VHT80	4	5530	12.84	11.56	13.17	12.35	71.481	18.54	24.00
VHT80	4	5610	15.83	15.05	16.00	15.28	143.811	21.58	24.00

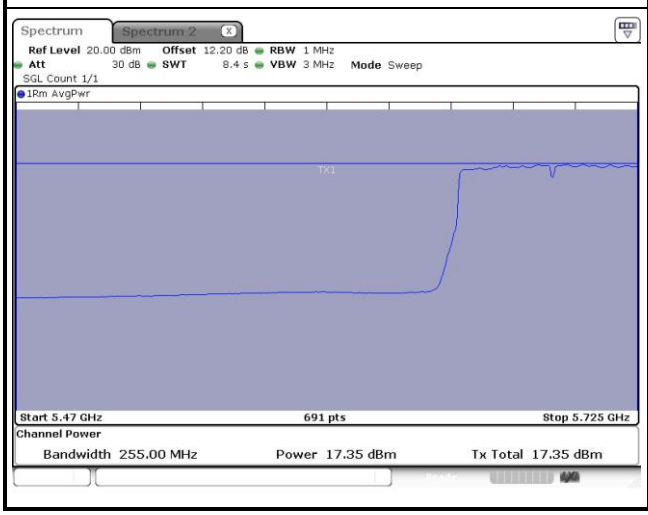
Channel that extends across the 5.725 GHz boundary

Maximum Conducted Output Power (Within 5470-5725MHz band)											
Mode	N_{TX}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
11a	4	5720	10.91	10.89	11.16	10.78	16.96	0.00	49.635	16.96	22.66
HT20	4	5720	11.14	11.29	11.56	11.17	17.31	0.00	53.874	17.31	22.80
HT40	4	5710	14.91	15.10	15.32	14.89	21.08	0.00	128.206	21.08	24.00
VHT20	4	5720	11.07	11.31	11.58	11.10	17.29	0.00	53.585	17.29	22.80
VHT40	4	5710	15.12	15.14	15.26	14.91	21.13	0.00	129.715	21.13	24.00
VHT80	4	5690	17.35	16.89	17.26	16.42	23.02	0.21	210.175	**23.23**	24.00

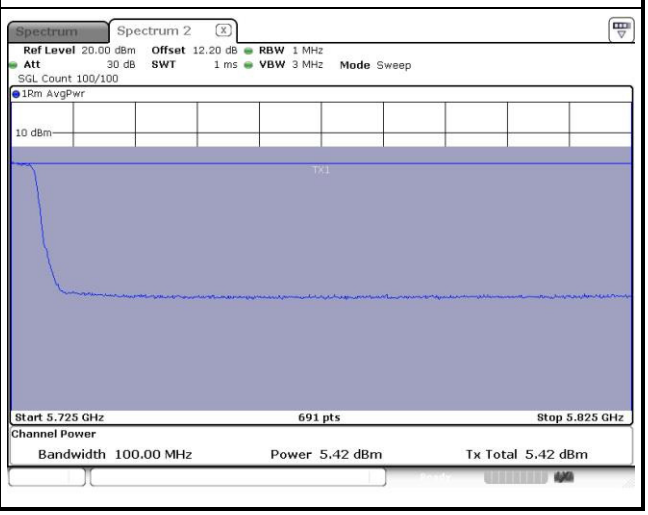
Maximum Conducted Output Power (Extends across 5725MHz band)											
Mode	N_{TX}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
11a	4	5720	4.58	4.50	4.66	4.28	10.53	0.00	11.292	10.53	30.00
HT20	4	5720	5.25	5.39	5.24	4.96	11.23	0.00	13.284	11.23	30.00
HT40	4	5710	3.61	4.02	3.62	3.01	9.60	0.00	9.121	9.60	30.00
VHT20	4	5720	5.42	5.33	5.34	5.07	11.31	0.00	13.529	**11.31**	30.00
VHT40	4	5710	3.70	3.93	3.46	3.27	9.62	0.00	9.157	9.62	30.00
VHT80	4	5690	3.67	3.35	3.18	2.48	9.21	0.21	8.754	9.42	30.00

Worst Channel Power Plots

Within 5470-5725MHz band



Extends across 5725MHz band



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	4	5745	18.09	18.41	18.02	18.62	269.924	24.31	30.00
11a	4	5785	17.88	17.89	18.43	18.12	257.420	24.11	30.00
11a	4	5825	18.5	18.66	18.29	18.61	284.309	24.54	30.00
HT20	4	5745	18.10	18.36	17.98	18.58	268.031	24.28	30.00
HT20	4	5785	17.77	18.37	17.79	18.02	252.052	24.01	30.00
HT20	4	5825	18.62	18.22	18.72	18.67	287.246	24.58	30.00
HT40	4	5755	18.10	18.11	17.94	18.08	255.778	24.08	30.00
HT40	4	5795	17.52	18.32	17.60	17.60	239.502	23.79	30.00
VHT20	4	5745	18.18	18.43	18.02	18.62	271.593	24.34	30.00
VHT20	4	5785	17.85	18.46	17.84	18.09	256.330	24.09	30.00
VHT20	4	5825	18.69	18.28	18.78	18.73	291.412	**24.65**	30.00
VHT40	4	5755	18.16	18.15	18.02	18.14	259.326	24.14	30.00
VHT40	4	5795	17.58	18.35	17.69	17.66	242.764	23.85	30.00
VHT80	4	5775	14.41	15.06	14.66	15.05	120.899	20.82	30.00

Beamforming mode

For Frequency band 5150~5250 MHz									
Mode	N_{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
VHT20	4	5180	11.4	11.58	11.68	11.54	57.171	17.57	18.67
VHT20	4	5200	11.17	11.38	11.5	11.48	55.018	17.41	18.67
VHT20	4	5240	11.05	11.22	11.42	11.27	53.243	17.26	18.67
VHT40	4	5190	12.25	12.07	12.43	12	66.242	**18.21**	18.67
VHT40	4	5230	11.61	12.06	12.22	12.17	63.711	18.04	18.67
VHT80	4	5210	11.97	12.11	12.46	12.2	66.211	**18.21**	18.67

Note: Directional gain = 10 * log($(10^{4/20}+10^{5.4/20}+10^{5.9/20}+10^{5.8/20})^2/4$) = 11.33 dBi > 6 dBi.

Limit shall be reduced to 24 dBm – (11.33 dBi – 6 dBi) = 18.67 dBm.

For Frequency band 5250~5350 MHz									
Mode	N_{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
VHT20	4	5260	11.38	11.29	11.27	11.44	54.527	17.37	18.92
VHT20	4	5300	11.40	11.38	11.33	11.53	55.351	17.43	18.92
VHT20	4	5320	11.23	11.55	11.18	11.48	54.745	17.38	18.92
VHT40	4	5270	12.30	12.24	12.52	12.60	69.794	18.44	18.92
VHT40	4	5310	12.60	12.56	12.48	12.60	72.125	**18.58**	18.92
VHT80	4	5290	11.81	11.73	11.78	11.96	60.834	17.84	18.92

Note: Directional gain = 10 * log($(10^{4.4/20}+10^{5.4/20}+10^{4.8/20}+10^{5.6/20})^2/4$) = 11.08 > 6 dBi.

Limit shall be reduced to 24 dBm – (11.08 dBi – 6 dBi) = 18.92 dBm.

For Frequency band 5470~5725 MHz									
Mode	N_{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
VHT20	4	5500	11.72	11.88	11.6	12.37	61.989	17.92	19.23
VHT20	4	5580	11.68	11.84	11.55	12.22	60.960	17.85	19.23
VHT20	4	5700	11.68	11.78	11.53	12.3	60.995	17.85	19.23
VHT40	4	5510	12.60	12.00	11.88	12.42	66.921	18.26	19.23
VHT40	4	5590	12.53	11.89	11.81	12.53	66.435	18.22	19.23
VHT40	4	5670	12.99	13.02	12.81	13.78	82.928	**19.19**	19.23
VHT80	4	5530	11.90	11.79	12.05	12.53	64.527	18.10	19.23
VHT80	4	5610	11.78	11.37	11.55	12.63	61.387	17.88	19.23

Note: Directional gain = 10 * log($(10^{4.2/20}+10^{4.5/20}+10^{4.5/20}+10^{5.7/20})^2/4$) = 10.77 dBi > 6 dBi.

Limit shall be reduced to 24 dBm – (10.77 dBi – 6 dBi) = 19.23 dBm.

Channel that extends across the 5.725 GHz boundary

Maximum Conducted Output Power (Within 5470-5725MHz band)											
Mode	N_{TX}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
VHT20	4	5720	10.60	10.61	10.76	10.82	16.72	0.20	49.194	16.92	18.02
VHT40	4	5710	12.24	12.23	11.65	12.55	**18.20**	0.21	69.344	18.41	19.23
VHT80	4	5690	11.46	11.43	11.17	11.69	17.46	0.20	58.371	17.66	19.23

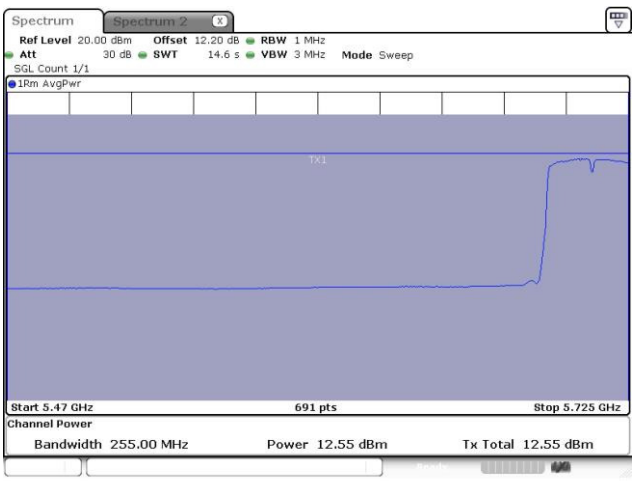
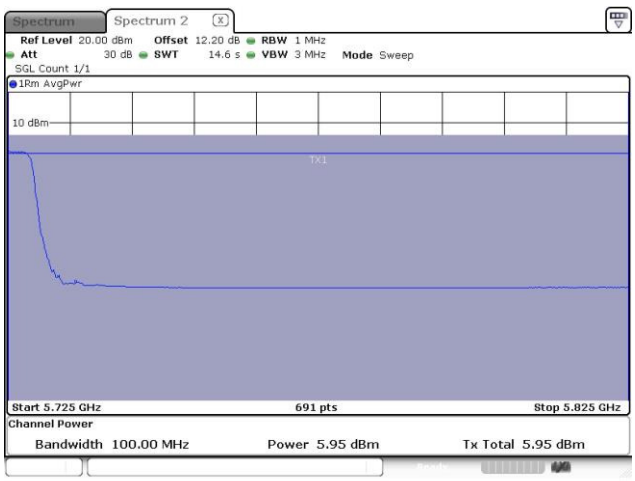
Note: Directional gain = 10 * log($(10^{4.2/20}+10^{4.5/20+}10^{4.5/20+}10^{5.7/20})^2$/4) = 10.77 dBi > 6 dBi.

Limit shall be reduced 4.77 dB(10.77 dBi – 6 dBi)

Maximum Conducted Output Power (Extends across 5725MHz band)											
Mode	N_{TX}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
VHT20	4	5720	5.95	5.62	5.38	5.94	**11.75**	0.20	15.666	11.95	25.28
VHT40	4	5710	0.76	0.74	-0.23	0.90	6.59	0.21	4.781	6.80	25.28
VHT80	4	5690	-2.52	-2.57	-2.82	-2.83	3.34	0.20	2.258	3.54	25.28

Note: Directional gain = 10 * log($(10^{4.8/20}+10^{4.1/20+}10^{4.2/20+}10^{5.6/20})^2$/4) = 10.72 > 6 dBi.

Limit shall be reduced to 30 dBm – (10.72 dBi – 6 dBi) = 25.28 dBm.

Worst Channel Power Plots	
Within 5470-5725MHz band	**Extends across 5725MHz band**
	

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			
VHT20	4	5745	17.67	17.38	17.2	18.44	235.485	23.72	25.28
VHT20	4	5785	17.67	17.23	17.02	18.28	228.971	23.60	25.28
VHT20	4	5825	17.72	17.47	17.28	18.46	238.605	23.78	25.28
VHT40	4	5755	18.21	17.55	17.57	18.52	251.376	**24.00**	25.28
VHT40	4	5795	17.71	16.92	16.97	18.46	228.143	23.58	25.28
VHT80	4	5775	14.75	14.32	14.32	15.58	120.074	20.79	25.28

Note: Directional gain = $10 * \log((10^{4.8/20}+10^{4.1/20+}10^{4.2/20+}10^{5.6/20})^2/4) = 10.72 > 6$ dBi.

Limit shall be reduced to 30 dBm – (10.72 dBi – 6 dBi) = 25.28 dBm.

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

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

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

3.4.2 Test Procedures

For 5150~5250 MHz, 5250~5350 MHz, 5470~5725 MHz

☒ Method SA-1 (For Non-Beamforming 802.11a / 11ac VHT20 / VHT 40)

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

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

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

For 5725~5850 MHz

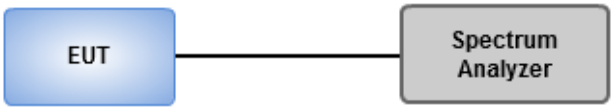
☒ Method SA-1 (For Non-Beamforming 802.11a / 11ac VHT20 / VHT 40)

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

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

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

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Non-beamforming mode

Frequency band			5150~5250 MHz / 5250~5350 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N_{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	4	5180	5.38	0.00	5.38	5.67
11a	4	5200	5.36	0.00	5.36	5.67
11a	4	5240	5.33	0.00	5.33	5.67
VHT20	4	5180	5.42	0.00	5.42	5.67
VHT20	4	5200	5.52	0.00	5.52	5.67
VHT20	4	5240	5.40	0.00	5.40	5.67
VHT40	4	5190	5.41	0.00	5.41	5.67
VHT40	4	5230	5.31	0.00	5.31	5.67
VHT80	4	5210	1.93	0.21	2.14	5.67
11a	4	5260	5.68	0.00	5.68	5.92
11a	4	5300	5.32	0.00	5.32	5.92
11a	4	5320	5.72	0.00	5.72	5.92
VHT20	4	5260	5.67	0.00	5.67	5.92
VHT20	4	5300	5.54	0.00	5.54	5.92
VHT20	4	5320	5.80	0.00	5.80	5.92
VHT40	4	5270	5.75	0.00	5.75	5.92
VHT40	4	5310	4.82	0.00	4.82	5.92
VHT80	4	5290	-0.99	0.21	-0.78	5.92

Note:

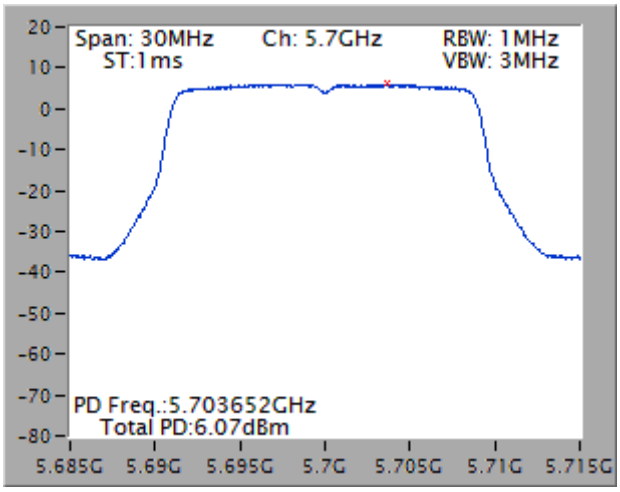
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. For 5150 ~ 5250 MHz band
   Directional gain = $10 * \log((10^{4/20}+10^{5.4/20+}10^{5.9/20+}10^{5.8/20})^2/4)$ = 11.33 dBi > 6dBi
   Limit shall be reduced to 11 dBm – (11.33 dBi – 6 dBi) = 5.67 dBm.

   For 5250 ~ 5350MHz band
   Directional gain = $10 * \log((10^{4.4/20}+10^{5.4/20+}10^{4.8/20+}10^{5.6/20})^2/4)$ = 11.08 dBi > 6dBi
   Limit shall be reduced to 11 dBm – (11.08 dBi – 6 dBi) = 5.92 dBm.

Frequency band			5470~5725 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N_{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	4	5500	5.90	0.00	5.90	6.23
11a	4	5580	5.90	0.00	5.90	6.23
11a	4	5700	5.86	0.00	5.86	6.23
11a	4	5720	5.45	0.00	5.45	6.23
VHT20	4	5500	5.88	0.00	5.88	6.23
VHT20	4	5580	5.66	0.00	5.66	6.23
VHT20	4	5700	6.07	0.00	6.07	6.23
VHT20	4	5720	5.57	0.00	5.57	6.23
VHT40	4	5510	5.75	0.00	5.75	6.23
VHT40	4	5590	5.88	0.00	5.88	6.23
VHT40	4	5670	5.81	0.00	5.81	6.23
VHT40	4	5710	5.70	0.00	5.70	6.23
VHT80	4	5530	-0.54	0.21	-0.33	6.23
VHT80	4	5610	3.21	0.21	3.42	6.23
VHT80	4	5690	4.92	0.21	5.13	6.23

Note:
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = 10 * log((10$^{4.2/20}$+10$^{4.5/20+}$10$^{4.5/20+}$10$^{5.7/20}$)^2/4) = 10.77 dBi > 6dBi
   Limit shall be reduced to 11 dBm – (11.76 dBi – 6 dBi) = 6.23 dBm.

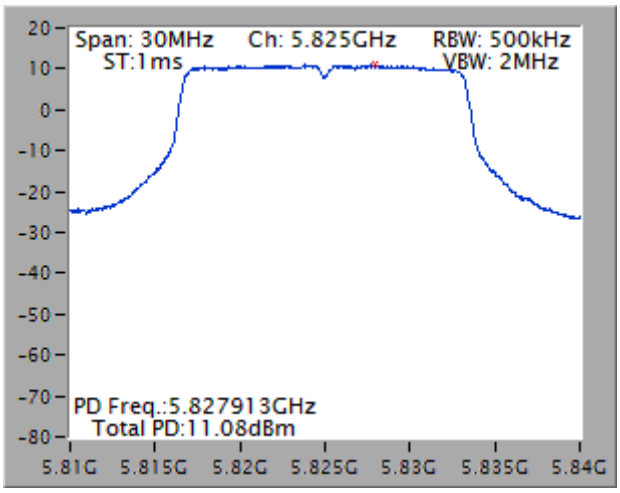
Worst Plot



For Frequency band 5725-5850 MHz						
Condition			Peak Power Spectral Density (dBm/500kHz)			
Mode	N_{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/500kHz)	Duty Factor (dB)	PPSD with D.F (dBm/500kHz)	PPSD Limit (dBm/500kHz)
11a	4	5745	10.57	0.00	10.57	25.28
11a	4	5785	10.37	0.00	10.37	25.28
11a	4	5825	11.08	0.00	11.08	25.28
VHT20	4	5745	10.11	0.00	10.11	25.28
VHT20	4	5785	9.95	0.00	9.95	25.28
VHT20	4	5825	10.51	0.00	10.51	25.28
VHT40	4	5755	7.49	0.00	7.49	25.28
VHT40	4	5795	7.29	0.00	7.29	25.28
VHT80	4	5775	0.55	0.21	0.76	25.28

Note:
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $10 * \log((10^{4.8/20}+10^{4.1/20+}10^{4.2/20+}10^{5.6/20})^2/4)$ = 10.72 dBi > 6dBi
   Limit shall be reduced to 30 dBm – (10.72 dBi – 6 dBi) = 25.28 dBm.

Worst Plot



Beamforming mode

Frequency band			5150~5250 MHz / 5250~5350 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N_{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
VHT20	4	5180	5.21	0.20	5.41	5.67
VHT20	4	5200	5.11	0.20	5.31	5.67
VHT20	4	5240	4.83	0.20	5.03	5.67
VHT40	4	5190	2.07	0.21	2.28	5.67
VHT40	4	5230	1.74	0.21	1.95	5.67
VHT80	4	5210	-1.94	0.20	-1.74	5.67
VHT20	4	5260	5.06	0.20	5.26	5.92
VHT20	4	5300	5.70	0.20	5.90	5.92
VHT20	4	5320	5.66	0.20	5.86	5.92
VHT40	4	5270	3.77	0.21	3.98	5.92
VHT40	4	5310	4.03	0.21	4.24	5.92
VHT80	4	5290	-1.35	0.20	-1.15	5.92

Note:

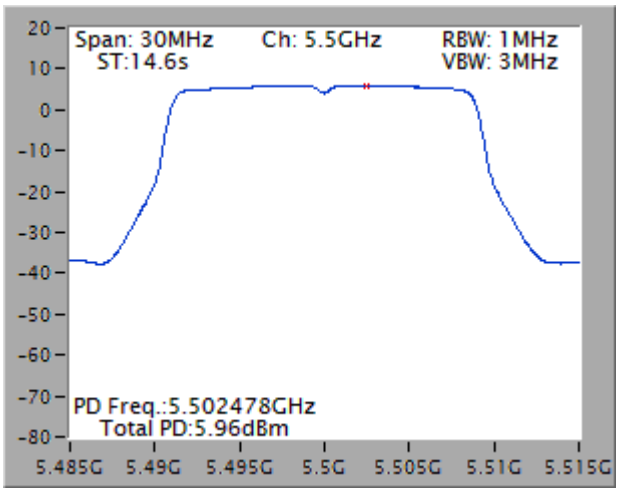
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. For 5150 ~ 5250 MHz band
   Directional gain = $10 * \log((10^{4/20}+10^{5.4/20+}10^{5.9/20+}10^{5.8/20})^2/4)$ = 11.33 dBi > 6dBi
   Limit shall be reduced to 11 dBm – (11.33 dBi – 6 dBi) = 5.67 dBm.

   For 5250 ~ 5350MHz band
   Directional gain = $10 * \log((10^{4.4/20}+10^{5.4/20+}10^{4.8/20+}10^{5.6/20})^2/4)$ = 11.08 dBi > 6dBi
   Limit shall be reduced to 11 dBm – (11.08 dBi – 6 dBi) = 5.92 dBm.

Frequency band			5470~5725 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N_{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
VHT20	4	5500	5.96	0.20	6.16	6.23
VHT20	4	5580	5.28	0.20	5.48	6.23
VHT20	4	5700	5.73	0.20	5.93	6.23
VHT20	4	5720	5.43	0.20	5.63	6.23
VHT40	4	5510	2.87	0.21	3.08	6.23
VHT40	4	5590	1.87	0.21	2.08	6.23
VHT40	4	5670	4.45	0.21	4.66	6.23
VHT40	4	5710	3.81	0.21	4.02	6.23
VHT80	4	5530	-1.22	0.20	-1.02	6.23
VHT80	4	5610	-2.10	0.20	-1.90	6.23
VHT80	4	5690	-1.43	0.20	-1.23	6.23

Note:
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Test result is bin-by-bin summing measured value of each TX port.
   Directional gain = $10 * \log((10^{4.2/20}+10^{4.5/20+}10^{4.5/20+}10^{5.7/20})^2/4)$ = 10.77 dBi > 6dBi
   Limit shall be reduced to 11 dBm – (11.76 dBi – 6 dBi) = 6.23 dBm.

Worst Plot

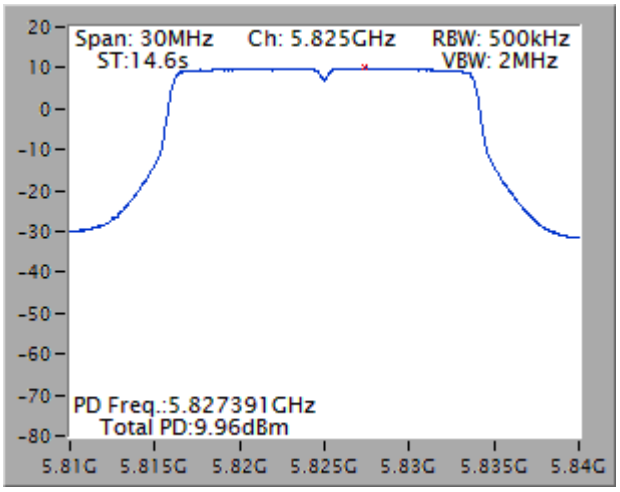


Note: Above plot are without duty factor.

For Frequency band 5725-5850 MHz						
Condition			Peak Power Spectral Density (dBm/500kHz)			
Mode	N_{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/500kHz)	Duty Factor (dB)	PPSD with D.F (dBm/500kHz)	PPSD Limit (dBm/500kHz)
VHT20	4	5745	9.79	0.20	9.99	25.28
VHT20	4	5785	9.58	0.20	9.78	25.28
VHT20	4	5825	9.96	0.20	10.16	25.28
VHT40	4	5755	7.17	0.21	7.38	25.28
VHT40	4	5795	6.58	0.21	6.79	25.28
VHT80	4	5775	0.14	0.20	0.34	25.28

Note:
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $10 * \log((10^{4.8/20}+10^{4.1/20+}10^{4.2/20+}10^{5.6/20})^2/4)$ = 10.72 dBi > 6dBi
   Limit shall be reduced to 30 dBm – (10.72 dBi – 6 dBi) = 25.28 dBm.

Worst Plot



Note: Above plot are 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 5.25 - 5.35 GHz 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]	
5.725 - 5.850 GHz	☒	15.407(b)(4)(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
	☐	15.407(b)(4)(ii) ,compliance with the emission limits in § 15.247(d) Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition,radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see § 15.205(c))

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.5.2 Test Procedures

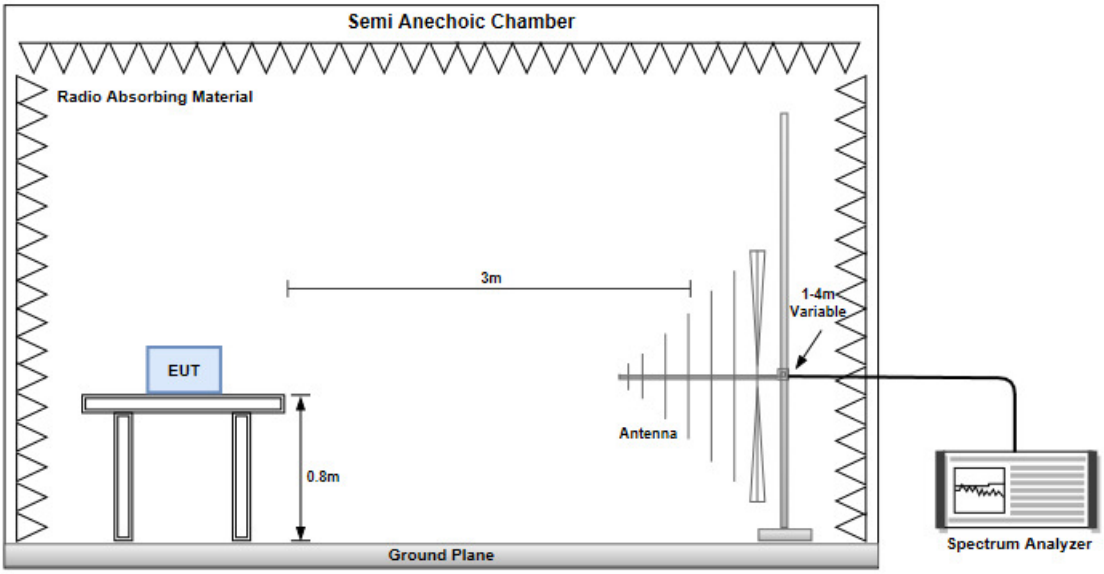
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

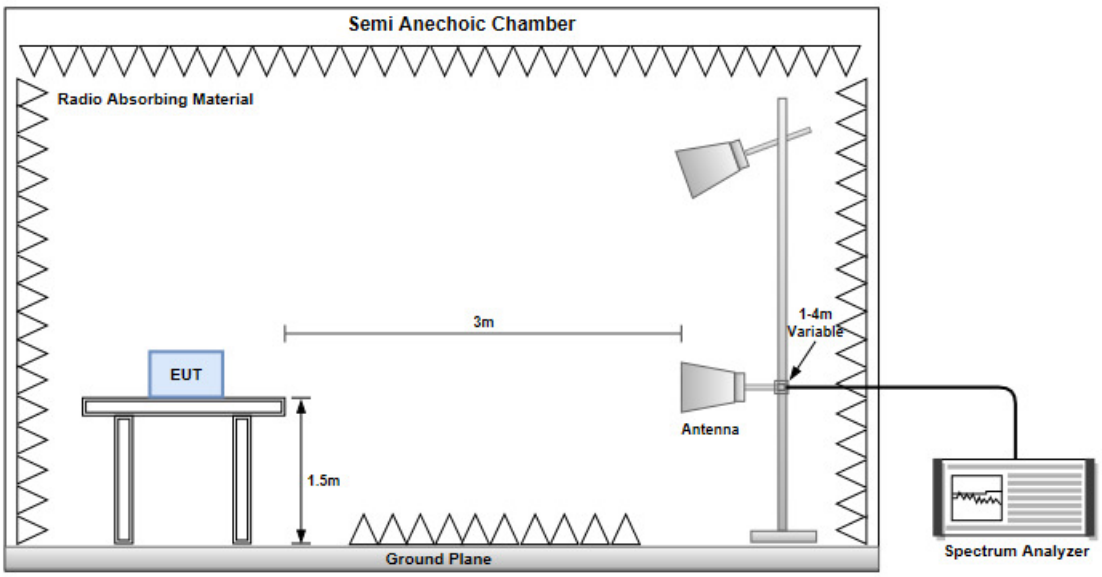
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



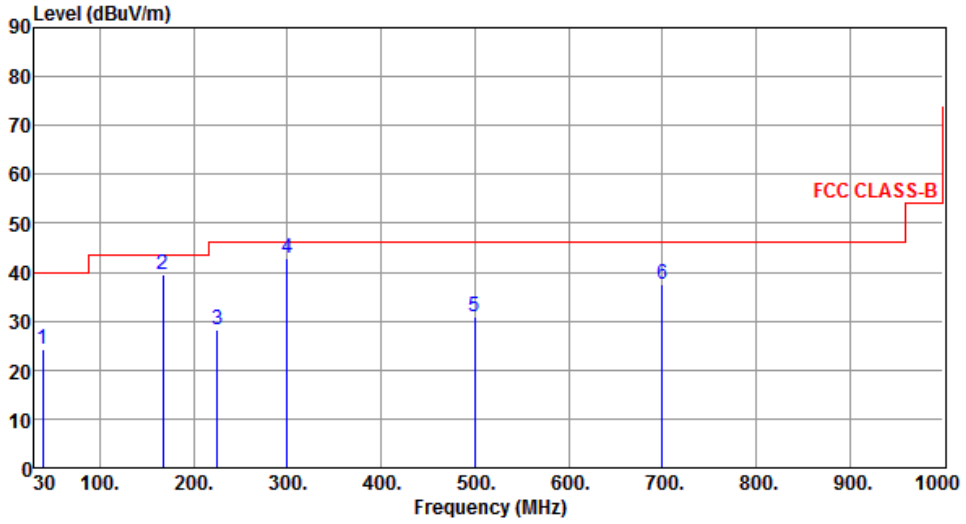
Radiated Emissions above 1 GHz



Non-beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

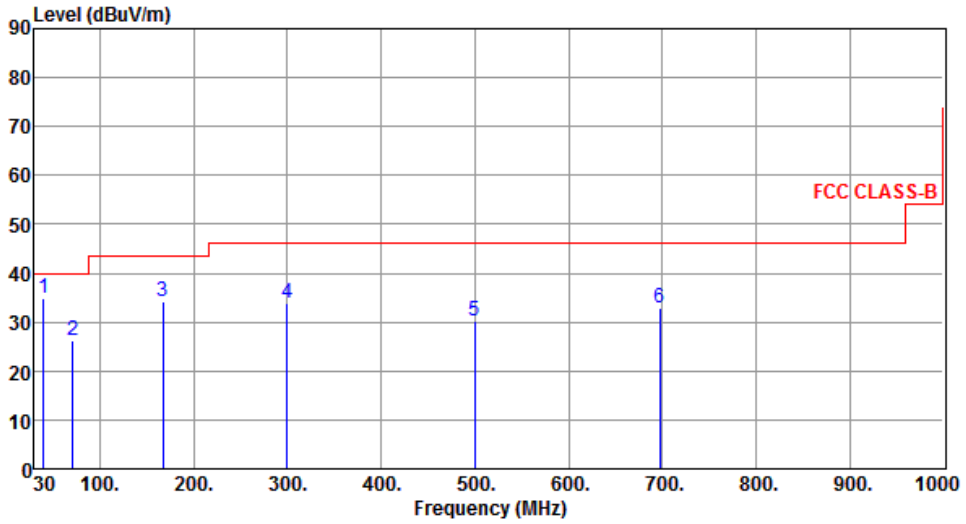
Modulation	VHT40	**Test Freq. (MHz)**	5670
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	38.73	24.16	40.00	-15.84	32.60	-8.44	Peak	---	---
2	166.77	39.57	43.50	-3.93	47.90	-8.33	Peak	---	---
3	224.97	28.19	46.00	-17.81	38.75	-10.56	Peak	---	---
4	299.66	42.92	46.00	-3.08	50.63	-7.71	Peak	---	---
5	499.48	30.87	46.00	-15.13	33.81	-2.94	Peak	---	---
6	700.27	37.64	46.00	-8.36	36.93	0.71	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.

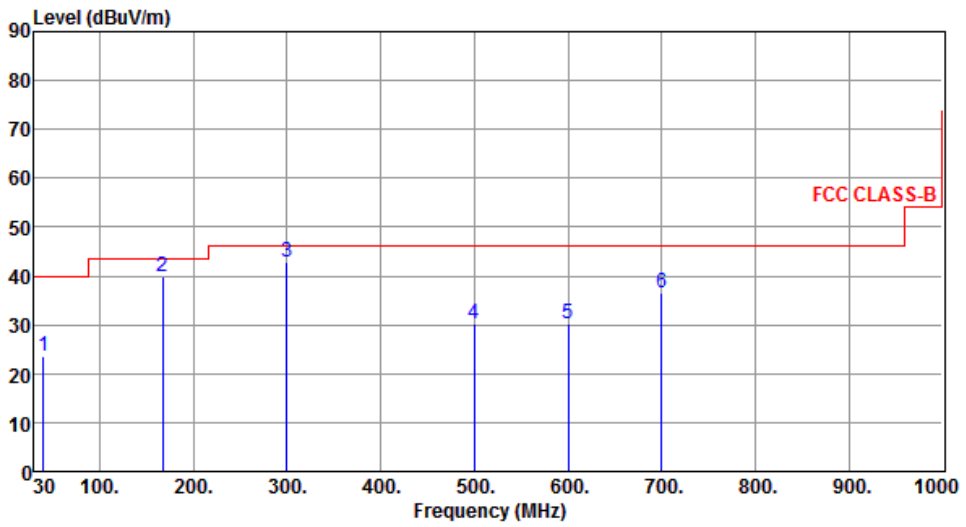
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	39.70	34.85	40.00	-5.15	43.18	-8.33	Peak	---	---
2	70.74	26.21	40.00	-13.79	36.92	-10.71	Peak	---	---
3	166.77	34.32	43.50	-9.18	42.65	-8.33	Peak	---	---
4	299.66	33.73	46.00	-12.27	41.44	-7.71	Peak	---	---
5	499.48	30.38	46.00	-15.62	33.32	-2.94	Peak	---	---
6	697.36	32.84	46.00	-13.16	32.18	0.66	Peak	---	---

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

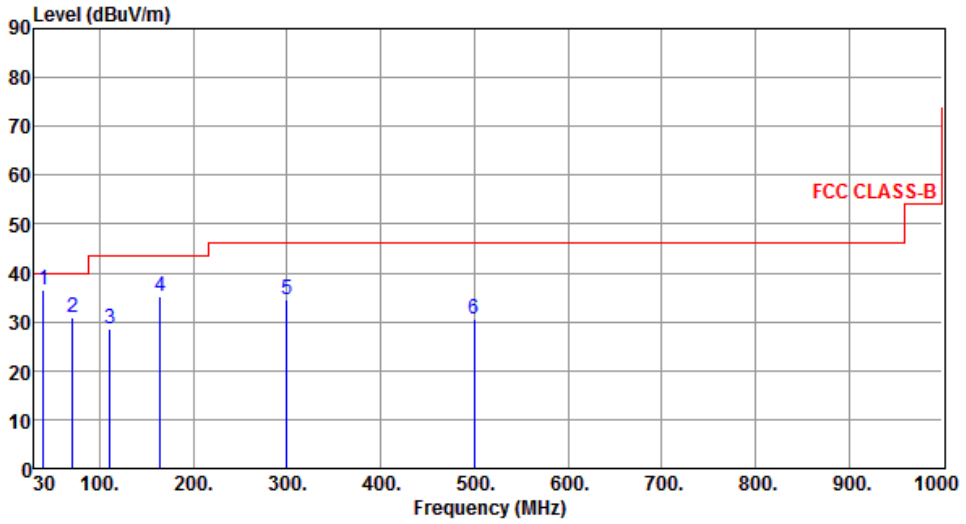
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	39.70	23.68	40.00	-16.32	32.01	-8.33	Peak	---	---
2	166.77	39.98	43.50	-3.52	48.31	-8.33	Peak	---	---
3	299.66	42.91	46.00	-3.09	50.62	-7.71	Peak	---	---
4	499.48	30.25	46.00	-15.75	33.19	-2.94	Peak	---	---
5	600.36	30.11	46.00	-15.89	30.76	-0.65	Peak	---	---
6	700.27	36.63	46.00	-9.37	35.92	0.71	Peak	---	---

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

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

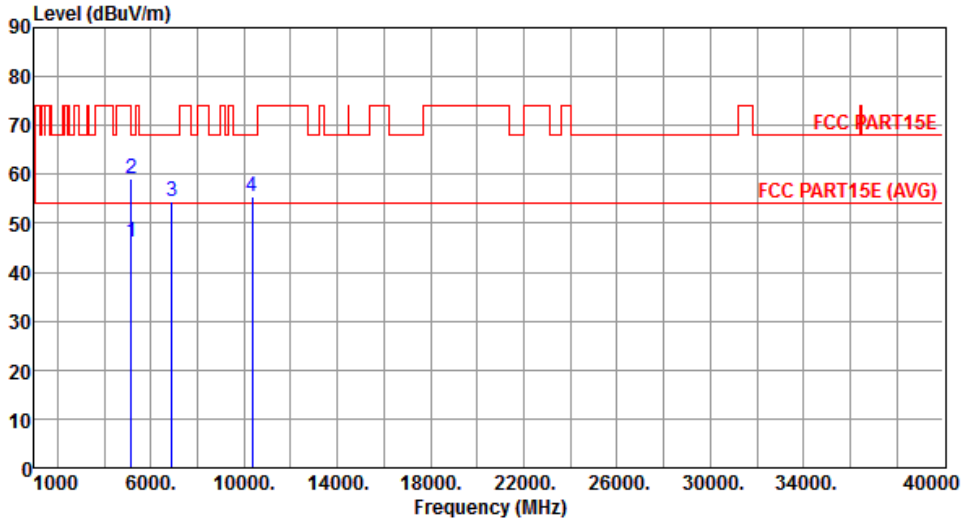


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	39.70	36.58	40.00	-3.42	44.91	-8.33	Peak	---	---
2	70.74	30.75	40.00	-9.25	41.46	-10.71	Peak	---	---
3	110.51	28.54	43.50	-14.96	40.04	-11.50	Peak	---	---
4	164.83	35.16	43.50	-8.34	43.40	-8.24	Peak	---	---
5	299.66	34.41	46.00	-11.59	42.12	-7.71	Peak	---	---
6	499.48	30.57	46.00	-15.43	33.51	-2.94	Peak	---	---

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

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

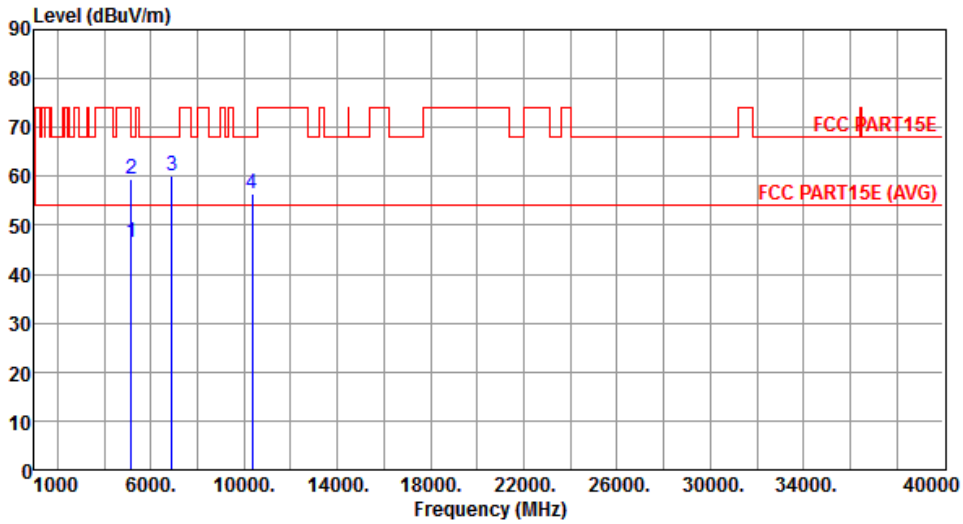
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.16	54.00	-7.84	40.29	5.87	Average	268	303
2	5150.00	59.24	74.00	-14.76	53.37	5.87	Peak	268	303
3	6906.66	54.41	68.20	-13.79	44.83	9.58	Peak	100	134
4	10360.00	55.57	68.20	-12.63	40.35	15.22	Peak	155	216

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

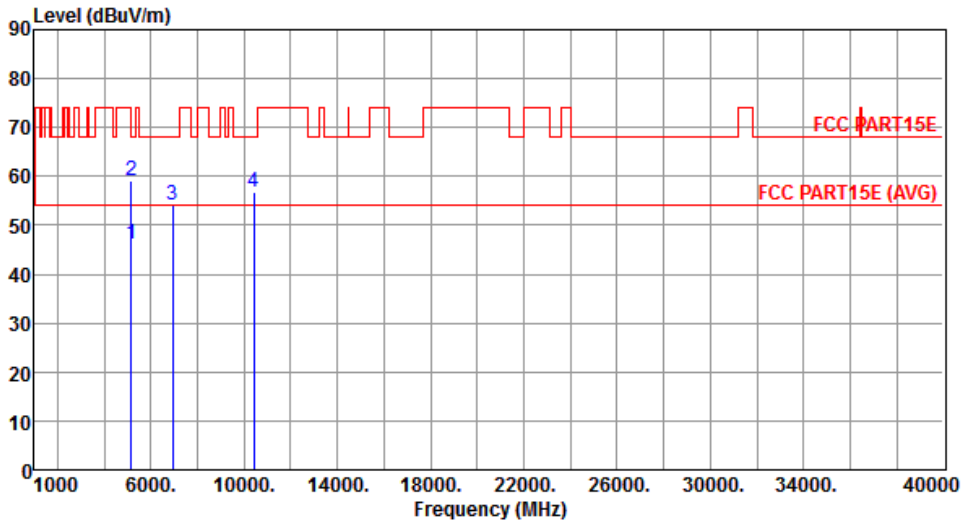
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.58	54.00	-7.42	40.71	5.87	Average	338	211
2	5150.00	59.52	74.00	-14.48	53.65	5.87	Peak	338	211
3	6906.66	60.05	68.20	-8.15	50.47	9.58	Peak	259	252
4	10360.00	56.41	68.20	-11.79	41.19	15.22	Peak	100	163

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

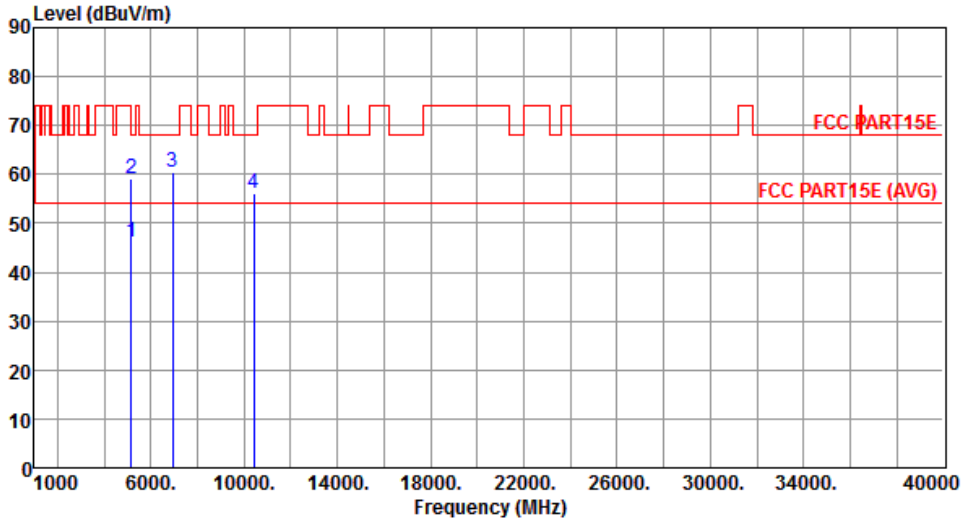
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.08	54.00	-7.92	40.21	5.87	Average	265	302
2	5150.00	59.21	74.00	-14.79	53.34	5.87	Peak	265	302
3	6933.33	54.19	68.20	-14.01	44.56	9.63	Peak	100	138
4	10400.00	56.78	68.20	-11.42	41.51	15.27	Peak	155	216

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

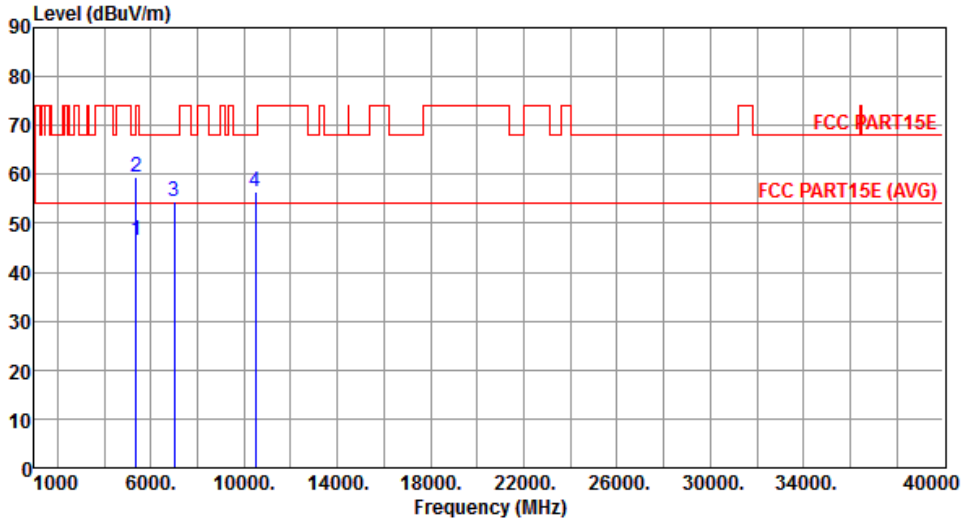
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.15	54.00	-7.85	40.28	5.87	Average	335	227
2	5150.00	59.23	74.00	-14.77	53.36	5.87	Peak	335	227
3	6933.33	60.44	68.20	-7.76	50.81	9.63	Peak	255	250
4	10400.00	56.23	68.20	-11.97	40.96	15.27	Peak	100	160

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

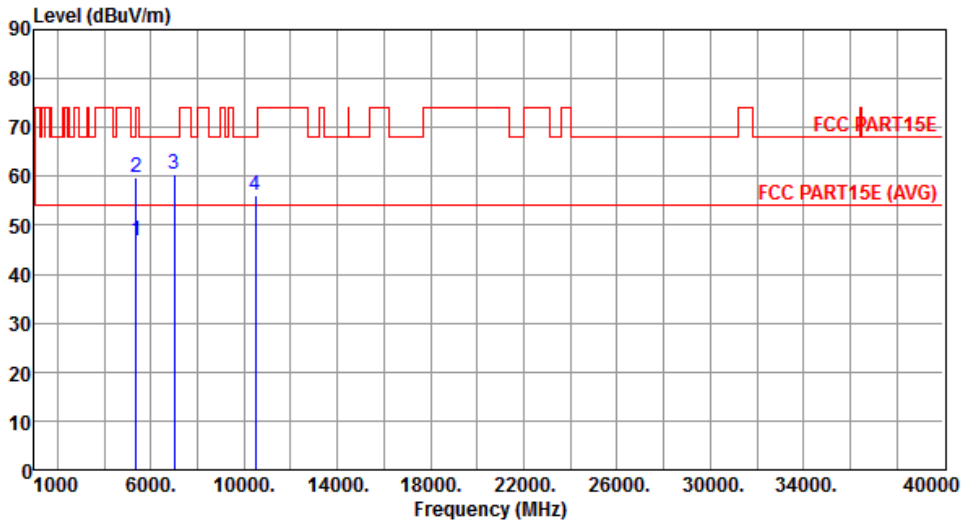
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.63	54.00	-7.37	40.42	6.21	Average	263	300
2	5350.00	59.57	74.00	-14.43	53.36	6.21	Peak	263	300
3	6986.66	54.58	68.20	-13.62	44.84	9.74	Peak	100	132
4	10480.00	56.34	68.20	-11.86	40.98	15.36	Peak	152	215

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

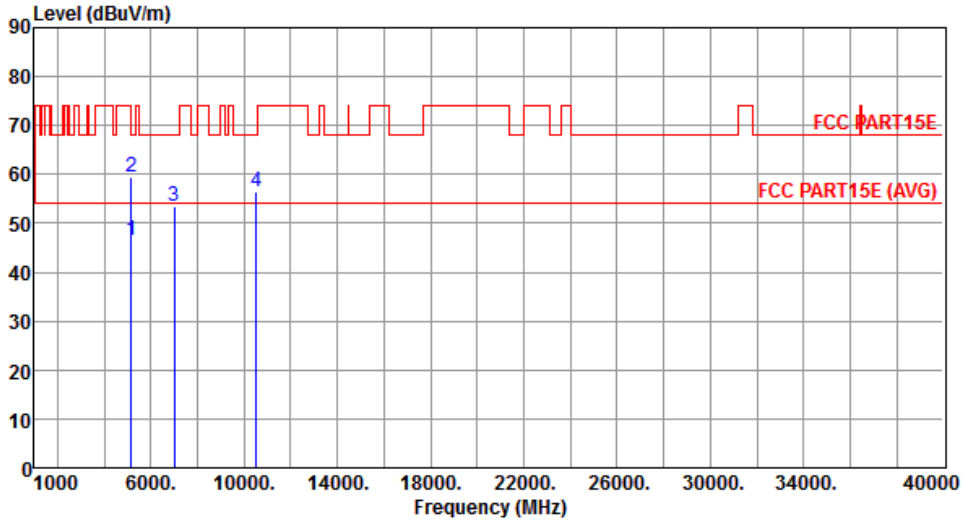
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.73	54.00	-7.27	40.52	6.21	Average	336	225
2	5350.00	59.68	74.00	-14.32	53.47	6.21	Peak	336	225
3	6986.66	60.57	68.20	-7.63	50.83	9.74	Peak	255	251
4	10480.00	56.22	68.20	-11.98	40.86	15.36	Peak	100	148

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

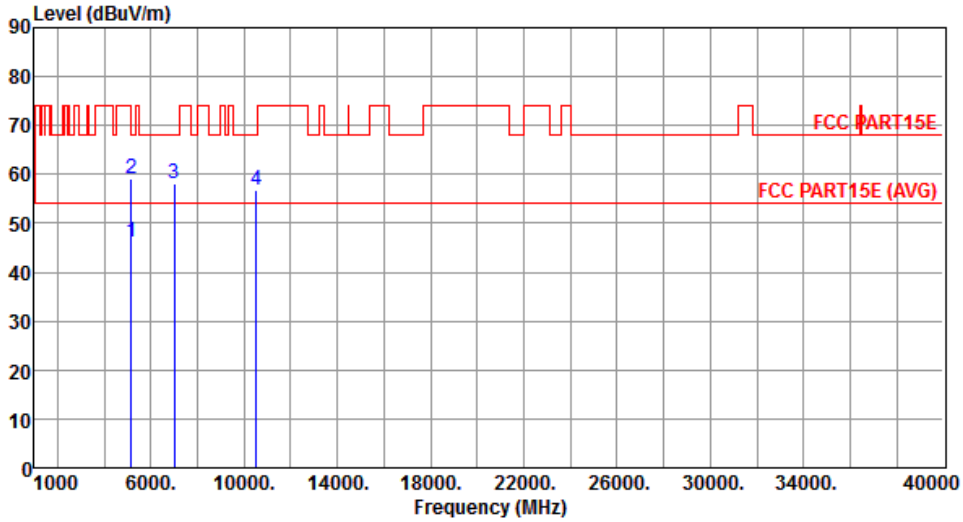
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.48	54.00	-7.52	40.61	5.87	Average	280	81
2	5150.00	59.34	74.00	-14.66	53.47	5.87	Peak	280	81
3	7013.33	53.42	68.20	-14.78	43.63	9.79	Peak	182	284
4	10520.00	56.42	68.20	-11.78	41.01	15.41	Peak	100	165

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

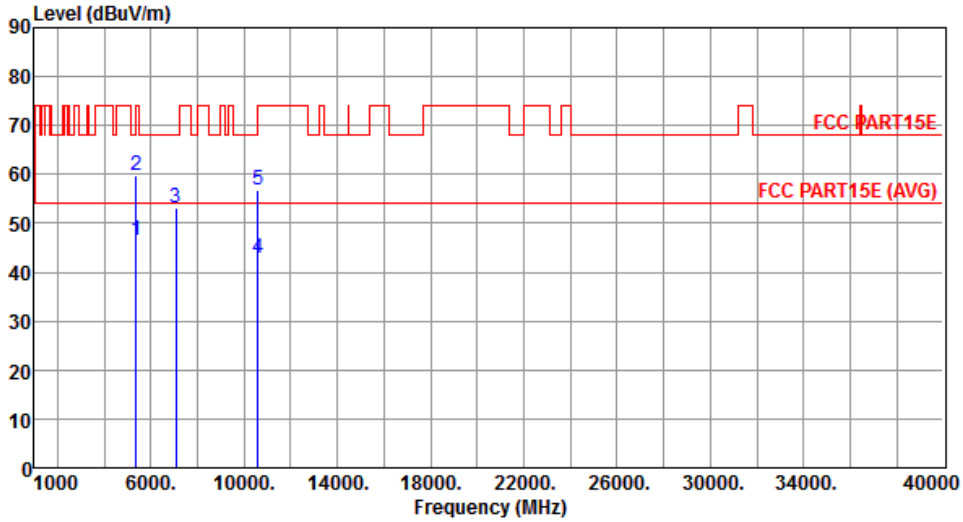
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		



	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	46.18	54.00	-7.82	40.31	5.87	Average	301	227
2	5150.00	59.18	74.00	-14.82	53.31	5.87	Peak	301	227
3	7013.33	58.21	68.20	-9.99	48.42	9.79	Peak	301	227
4	10520.00	56.94	68.20	-11.26	41.53	15.41	Peak	152	246

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

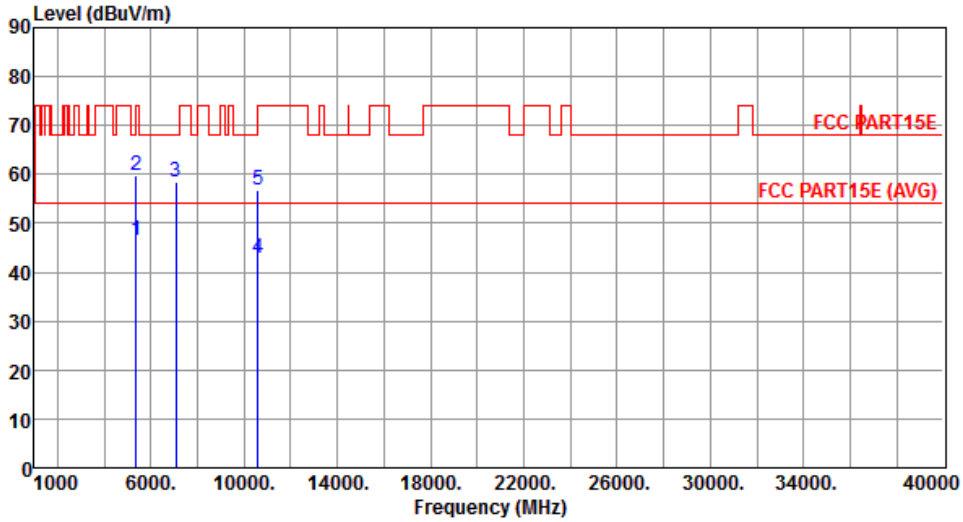
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.37	54.00	-7.63	40.16	6.21	Average	280	80
2	5350.00	59.70	74.00	-14.30	53.49	6.21	Peak	280	80
3	7066.66	53.18	68.20	-15.02	43.32	9.86	Peak	182	282
4	10600.00	42.91	54.00	-11.09	27.45	15.46	Average	100	165
5	10600.00	56.89	74.00	-17.11	41.43	15.46	Peak	100	165

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

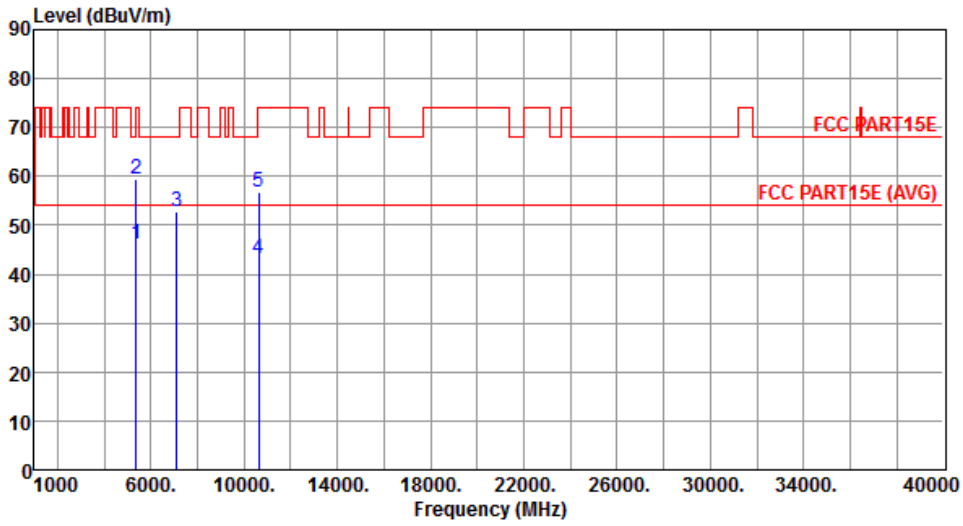
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. 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	46.53	54.00	-7.47	40.32	6.21	Average	300	225
2	5350.00	59.76	74.00	-14.24	53.55	6.21	Peak	300	225
3	7066.66	58.30	68.20	-9.90	48.44	9.86	Peak	260	135
4	10600.00	42.84	54.00	-11.16	27.38	15.46	Average	152	244
5	10600.00	56.90	74.00	-17.10	41.44	15.46	Peak	152	244

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

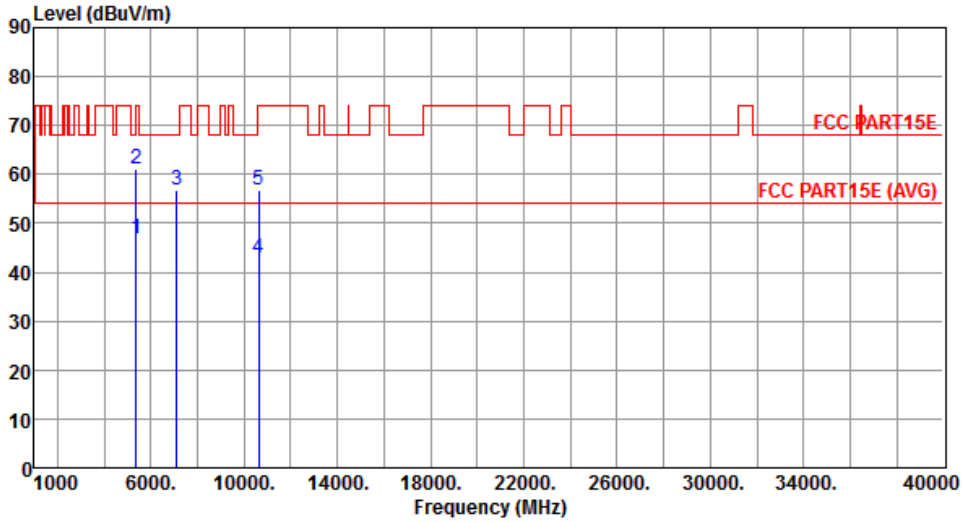
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.19	54.00	-7.81	39.98	6.21	Average	279	79
2	5350.00	59.53	74.00	-14.47	53.32	6.21	Peak	279	79
3	7093.33	52.68	68.20	-15.52	42.77	9.91	Peak	183	285
4	10640.00	43.06	54.00	-10.94	27.57	15.49	Average	100	168
5	10640.00	56.77	74.00	-17.23	41.28	15.49	Peak	100	168

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

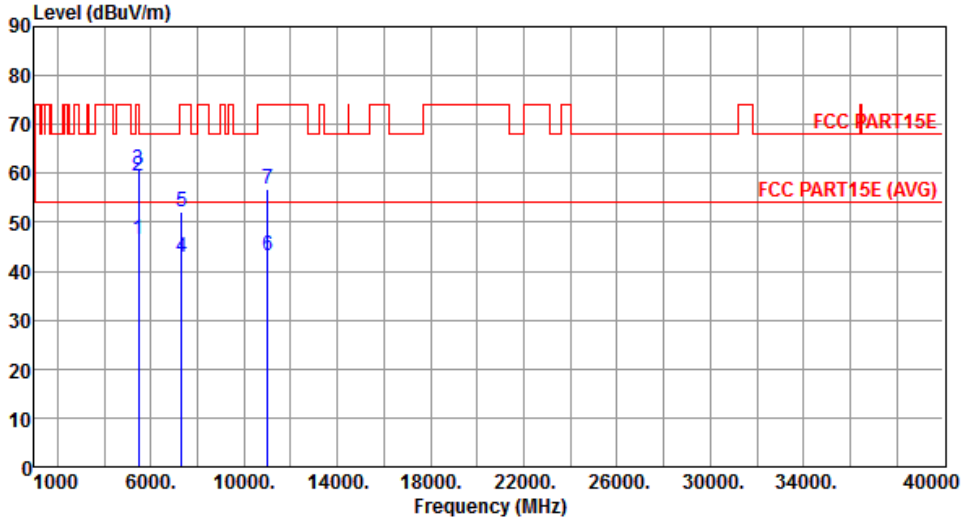
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.80	54.00	-7.20	40.59	6.21	Average	302	226
2	5350.00	61.07	74.00	-12.93	54.86	6.21	Peak	302	226
3	7093.33	56.87	68.20	-11.33	46.96	9.91	Peak	261	136
4	10640.00	42.77	54.00	-11.23	27.28	15.49	Average	155	243
5	10640.00	56.84	74.00	-17.16	41.35	15.49	Peak	155	243

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

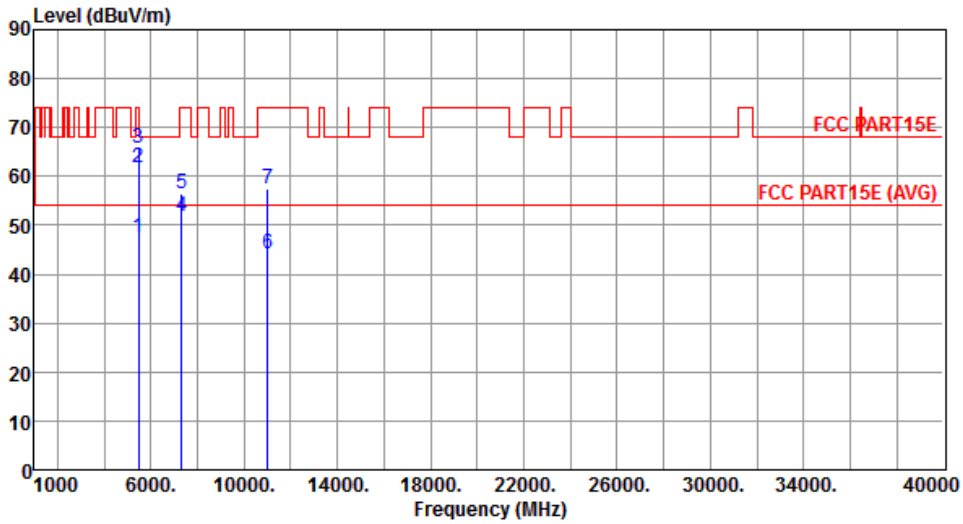
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.51	54.00	-7.49	40.15	6.36	Average	282	280
2	5460.00	59.54	74.00	-14.46	53.18	6.36	Peak	282	280
3	5470.00	60.66	68.20	-7.54	54.29	6.37	Peak	282	280
4	7333.33	42.80	54.00	-11.20	32.50	10.30	Average	214	98
5	7333.33	52.17	74.00	-21.83	41.87	10.30	Peak	214	98
6	11000.00	43.30	54.00	-10.70	27.56	15.74	Average	100	185
7	11000.00	56.95	74.00	-17.05	41.21	15.74	Peak	100	185

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

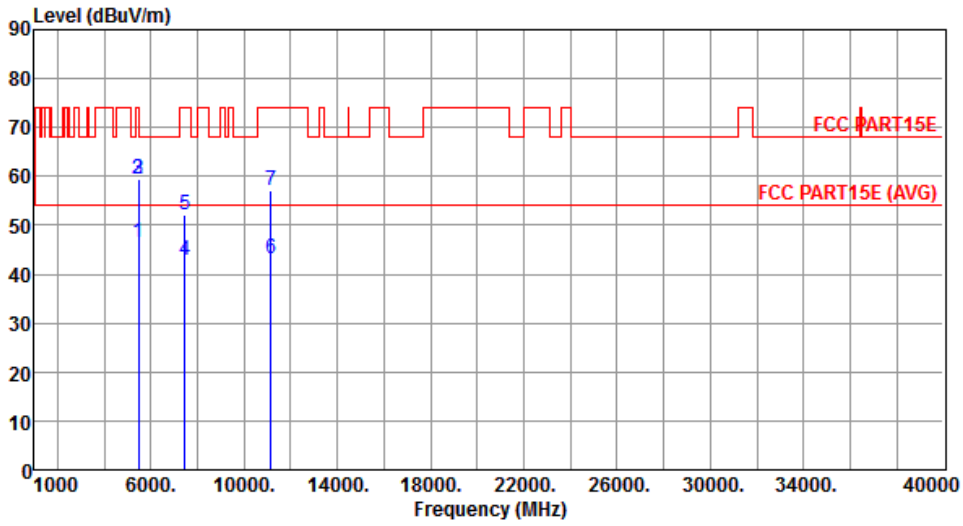
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.57	54.00	-6.43	41.21	6.36	Average	279	235
2	5460.00	61.62	74.00	-12.38	55.26	6.36	Peak	279	235
3	5470.00	65.68	68.20	-2.52	59.31	6.37	Peak	279	235
4	7333.33	51.87	54.00	-2.13	41.57	10.30	Average	282	64
5	7333.33	56.35	74.00	-17.65	46.05	10.30	Peak	282	64
6	11000.00	44.16	54.00	-9.84	28.42	15.74	Average	280	224
7	11000.00	57.36	74.00	-16.64	41.62	15.74	Peak	280	224

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

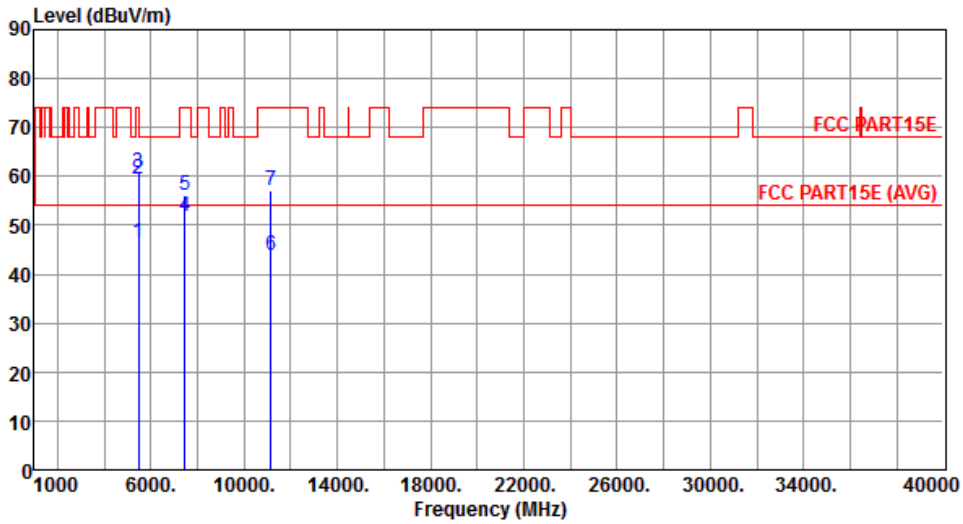
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.38	54.00	-7.62	40.02	6.36	Average	280	277
2	5460.00	59.60	74.00	-14.40	53.24	6.36	Peak	280	277
3	5470.00	59.48	68.20	-8.72	53.11	6.37	Peak	280	277
4	7440.00	42.89	54.00	-11.11	32.34	10.55	Average	215	95
5	7440.00	52.00	74.00	-22.00	41.45	10.55	Peak	215	95
6	11160.00	43.18	54.00	-10.82	27.35	15.83	Average	100	173
7	11160.00	57.21	74.00	-16.79	41.38	15.83	Peak	100	173

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

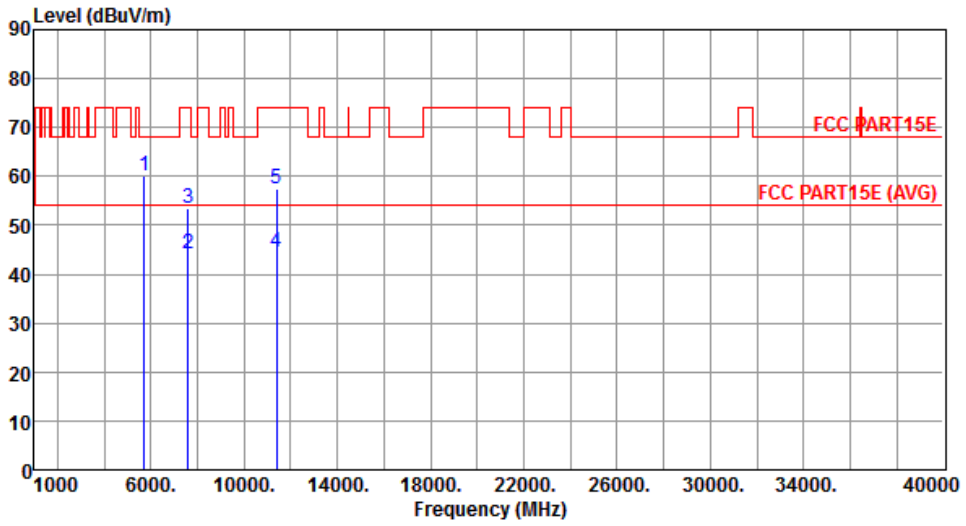
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.57	54.00	-7.43	40.21	6.36	Average	275	241
2	5460.00	59.60	74.00	-14.40	53.24	6.36	Peak	275	241
3	5470.00	60.81	68.20	-7.39	54.44	6.37	Peak	275	241
4	7440.00	51.72	54.00	-2.28	41.17	10.55	Average	298	63
5	7440.00	56.21	74.00	-17.79	45.66	10.55	Peak	298	63
6	11160.00	43.95	54.00	-10.05	28.12	15.83	Average	285	223
7	11160.00	57.20	74.00	-16.80	41.37	15.83	Peak	285	223

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

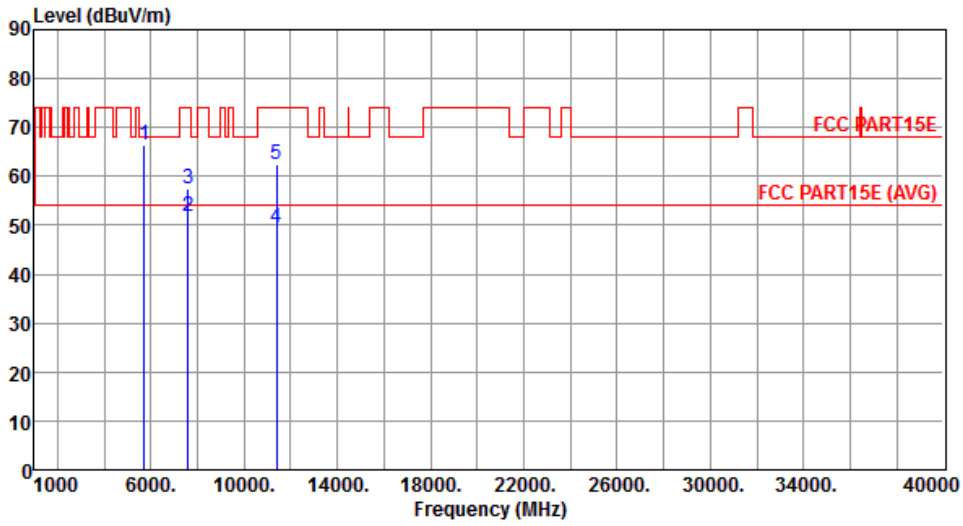
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	60.15	68.20	-8.05	53.32	6.83	Peak	250	102
2	7600.00	44.28	54.00	-9.72	33.25	11.03	Average	245	282
3	7600.00	53.31	74.00	-20.69	42.28	11.03	Peak	245	282
4	11400.00	44.48	54.00	-9.52	28.52	15.96	Average	115	241
5	11400.00	57.60	74.00	-16.40	41.64	15.96	Peak	115	241

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

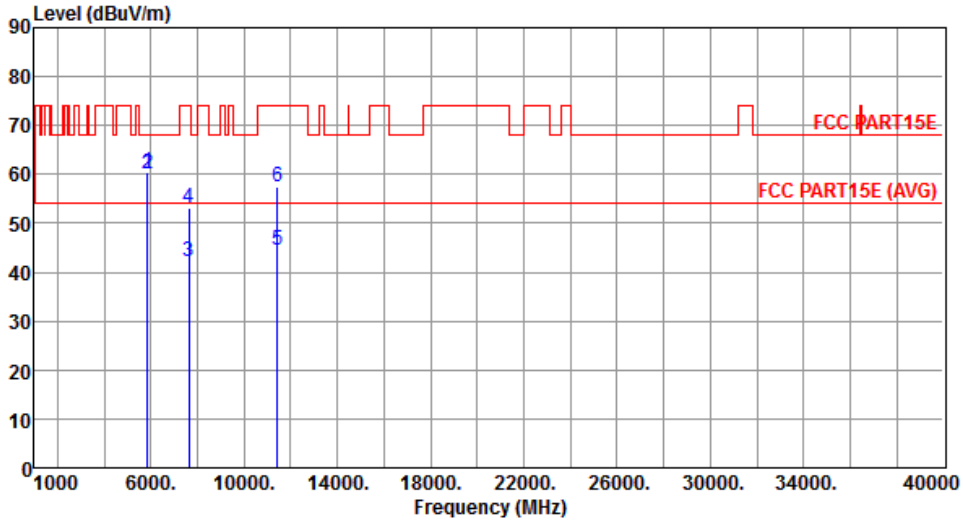
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	66.41	68.20	-1.79	59.58	6.83	Peak	299	211
2	7600.00	51.85	54.00	-2.15	40.82	11.03	Average	250	76
3	7600.00	57.62	74.00	-16.38	46.59	11.03	Peak	250	76
4	11400.00	49.41	54.00	-4.59	33.45	15.96	Average	241	77
5	11400.00	62.53	74.00	-11.47	46.57	15.96	Peak	241	77

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

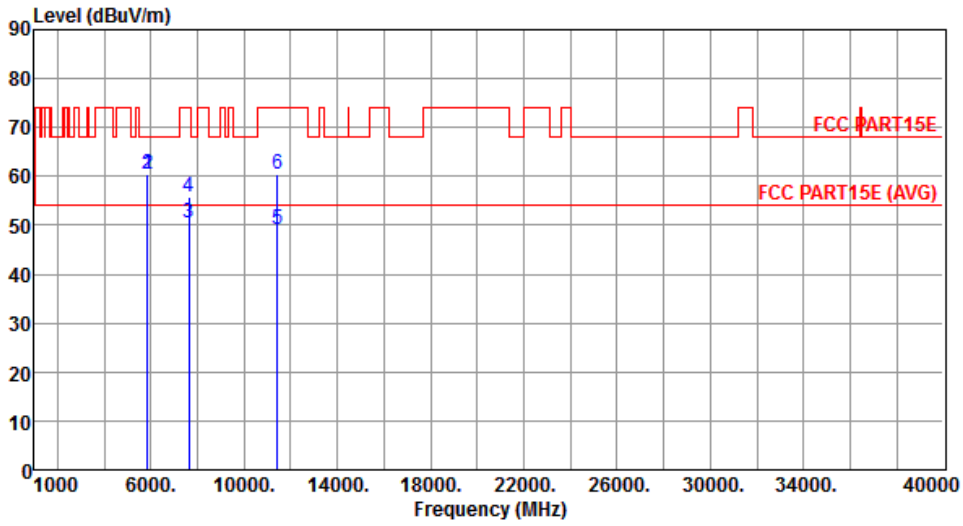
Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	60.28	68.20	-7.92	53.12	7.16	Peak	242	102
2	5860.00	60.05	68.20	-8.15	52.87	7.18	Peak	242	102
3	7626.66	42.07	54.00	-11.93	31.05	11.02	Average	240	110
4	7626.66	53.07	74.00	-20.93	42.05	11.02	Peak	240	110
5	11440.00	44.52	54.00	-9.48	28.53	15.99	Average	156	218
6	11440.00	57.42	74.00	-16.58	41.43	15.99	Peak	156	218

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

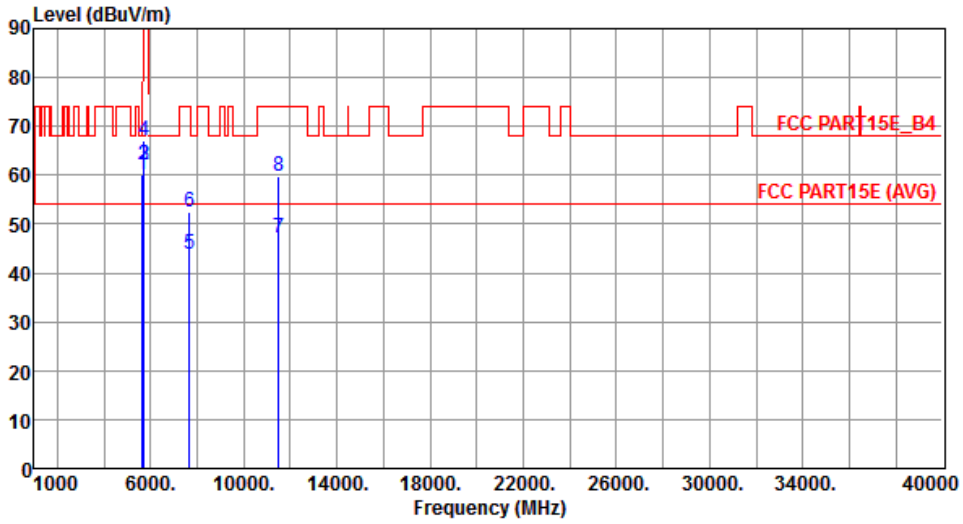
Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical		



	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	60.38	68.20	-7.82	53.22	7.16	Peak	294	205
2	5860.00	60.54	68.20	-7.66	53.36	7.18	Peak	294	205
3	7626.66	50.48	54.00	-3.52	39.46	11.02	Average	256	66
4	7626.66	55.84	74.00	-18.16	44.82	11.02	Peak	256	66
5	11440.00	49.01	54.00	-4.99	33.02	15.99	Average	242	73
6	11440.00	60.52	74.00	-13.48	44.53	15.99	Peak	242	73

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

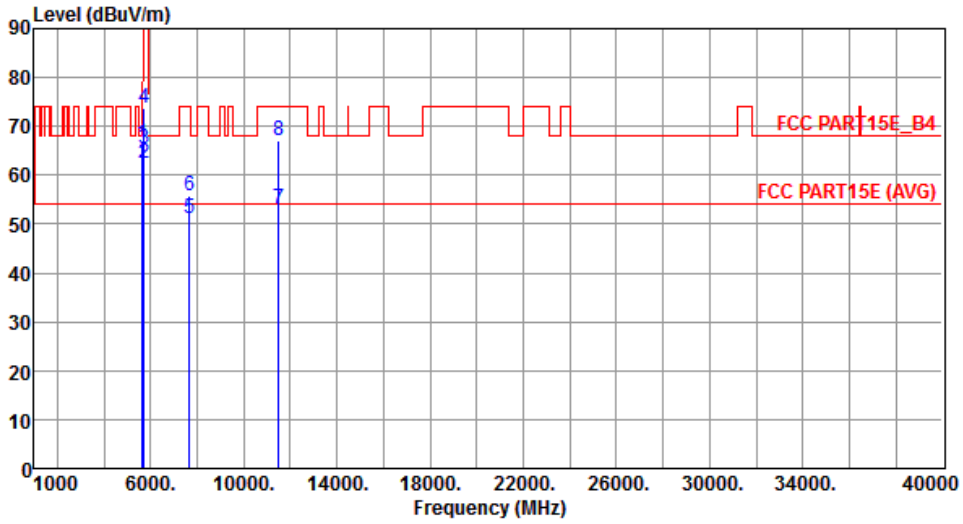
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	60.01	68.20	-8.19	53.38	6.63	Peak	288	277
2	5700.00	62.18	105.20	-43.02	55.41	6.77	Peak	288	277
3	5720.00	62.24	110.80	-48.56	55.42	6.82	Peak	288	277
4	5725.00	66.95	122.20	-55.25	60.12	6.83	Peak	288	277
5	7660.00	43.72	54.00	-10.28	32.70	11.02	Average	256	281
6	7660.00	52.50	74.00	-21.50	41.48	11.02	Peak	256	281
7	11490.00	47.02	54.00	-6.98	31.01	16.01	Average	250	319
8	11490.00	59.69	74.00	-14.31	43.68	16.01	Peak	250	319

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

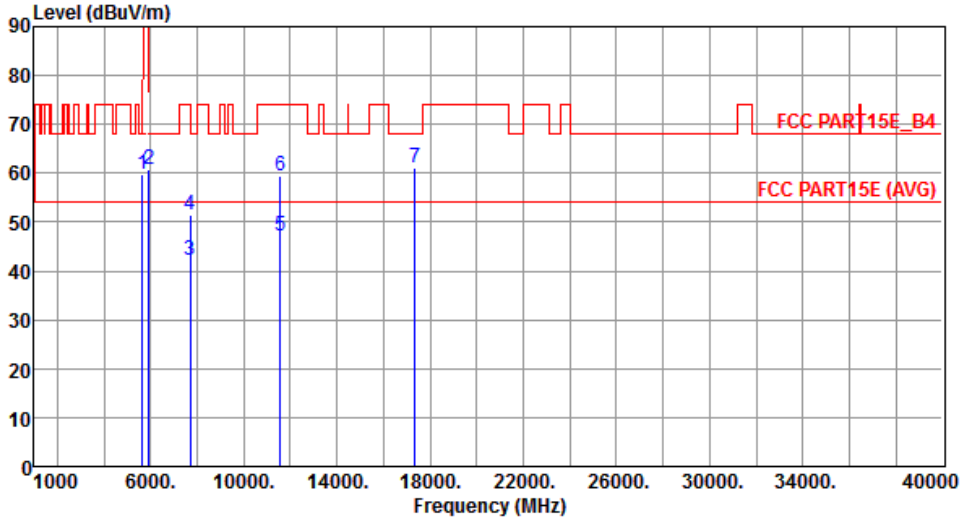
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.46	68.20	-1.74	59.83	6.63	Peak	275	89
2	5700.00	62.30	105.20	-42.90	55.53	6.77	Peak	275	89
3	5720.00	65.57	110.80	-45.23	58.75	6.82	Peak	275	89
4	5725.00	73.59	122.20	-48.61	66.76	6.83	Peak	275	89
5	7660.00	51.06	54.00	-2.94	40.04	11.02	Average	255	64
6	7660.00	55.91	74.00	-18.09	44.89	11.02	Peak	255	64
7	11490.00	52.98	54.00	-1.02	36.97	16.01	Average	242	73
8	11490.00	67.01	74.00	-6.99	51.00	16.01	Peak	242	73

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

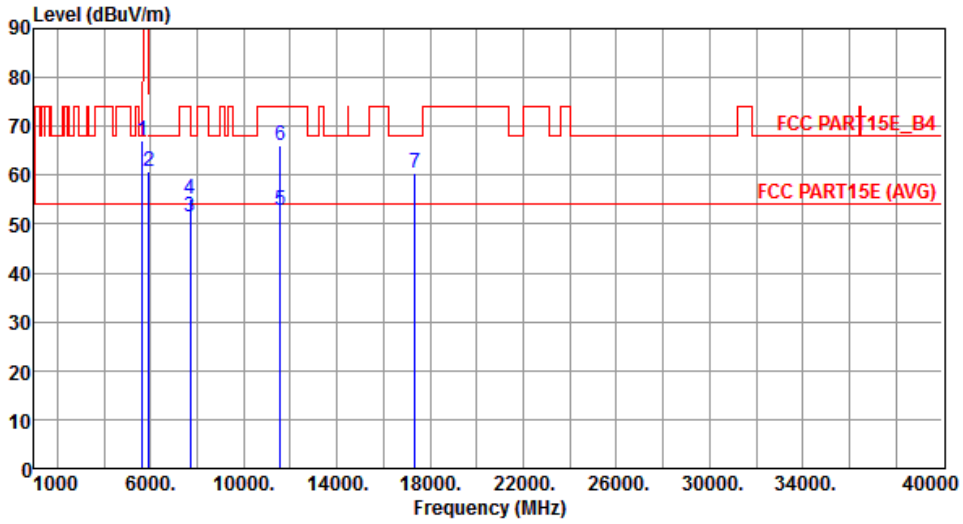
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.65	68.20	-8.55	53.02	6.63	Peak	294	277
2	5925.00	60.65	68.20	-7.55	53.31	7.34	Peak	294	277
3	7713.33	42.08	54.00	-11.92	31.06	11.02	Average	264	281
4	7713.33	51.49	74.00	-22.51	40.47	11.02	Peak	264	281
5	11570.00	47.11	54.00	-6.89	31.22	15.89	Average	248	318
6	11570.00	59.34	74.00	-14.66	43.45	15.89	Peak	248	318
7	17355.00	61.07	68.20	-7.13	42.25	18.82	Peak	163	244

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

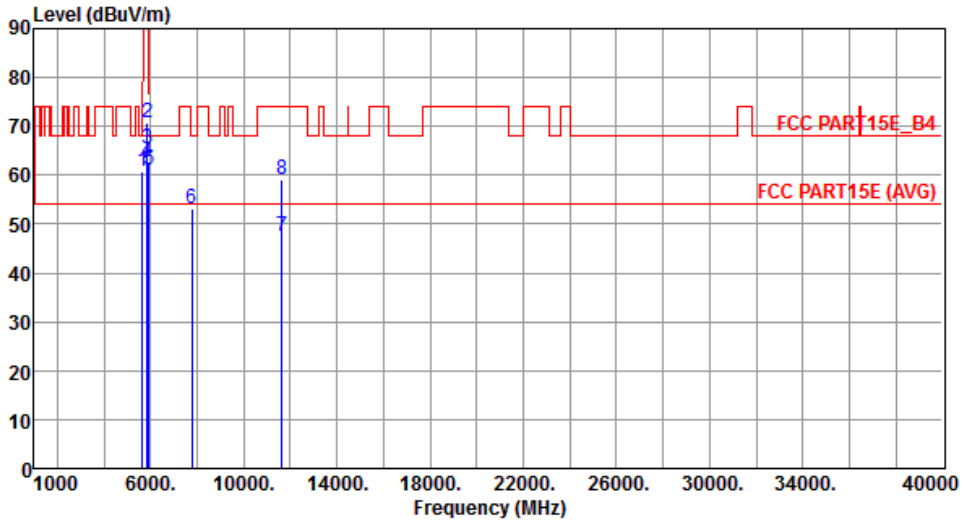
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	67.16	68.20	-1.04	60.53	6.63	Peak	270	91
2	5925.00	60.67	68.20	-7.53	53.33	7.34	Peak	270	91
3	7713.33	51.51	54.00	-2.49	40.49	11.02	Average	284	64
4	7713.33	55.22	74.00	-18.78	44.20	11.02	Peak	284	64
5	11570.00	52.93	54.00	-1.07	37.04	15.89	Average	240	73
6	11570.00	66.24	74.00	-7.76	50.35	15.89	Peak	240	73
7	17355.00	60.39	68.20	-7.81	41.57	18.82	Peak	245	212

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

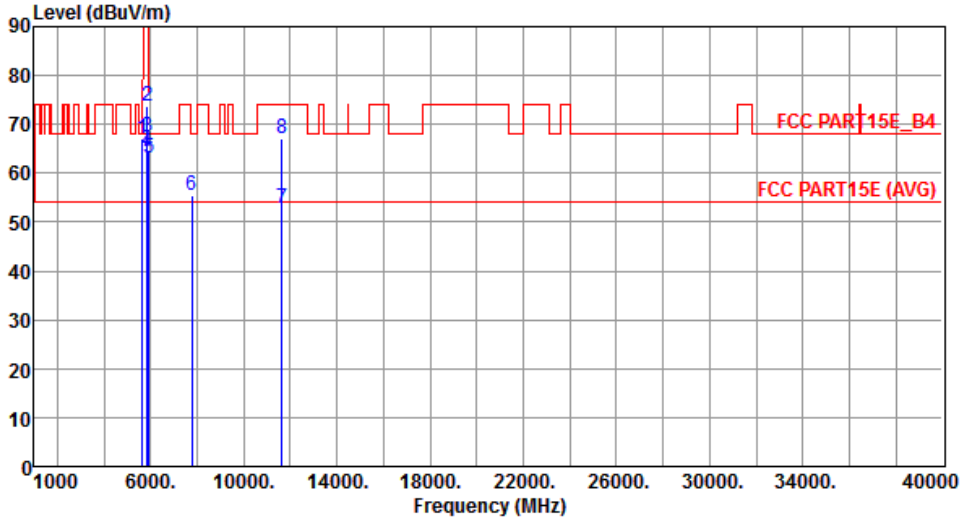
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	60.75	68.20	-7.45	54.12	6.63	Peak	285	277
2	5850.00	70.70	122.20	-51.50	63.54	7.16	Peak	285	277
3	5855.00	65.58	110.80	-45.22	58.40	7.18	Peak	285	277
4	5875.00	62.86	105.20	-42.34	55.63	7.23	Peak	285	277
5	5925.00	60.99	68.20	-7.21	53.65	7.34	Peak	285	277
6	7766.66	53.14	68.20	-15.06	42.13	11.01	Peak	100	245
7	11650.00	47.39	54.00	-6.61	31.65	15.74	Average	266	319
8	11650.00	59.11	74.00	-14.89	43.37	15.74	Peak	266	319

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

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

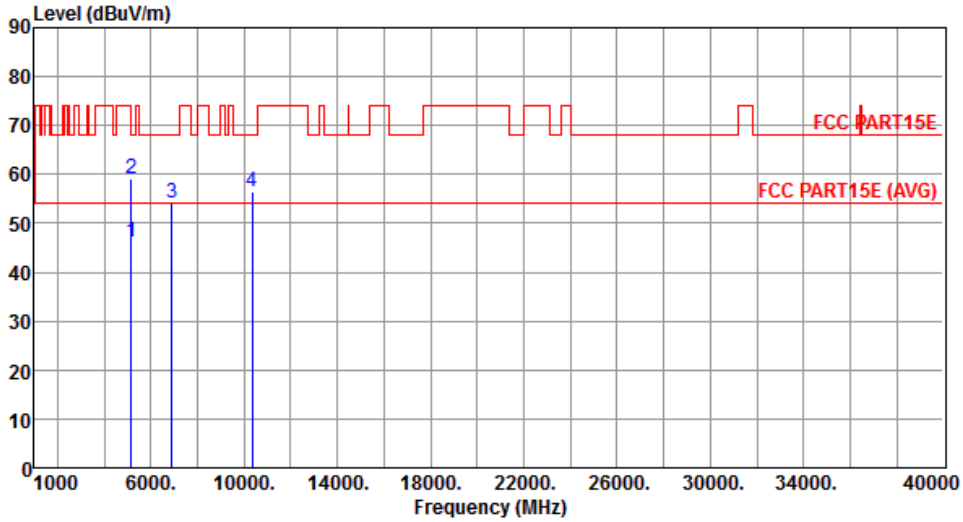


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	67.05	68.20	-1.15	60.42	6.63	Peak	285	241
2	5850.00	73.69	122.20	-48.51	66.53	7.16	Peak	285	241
3	5855.00	67.29	110.80	-43.51	60.11	7.18	Peak	285	241
4	5875.00	64.35	105.20	-40.85	57.12	7.23	Peak	285	241
5	5925.00	62.97	68.20	-5.23	55.63	7.34	Peak	285	241
6	7766.66	55.44	68.20	-12.76	44.43	11.01	Peak	236	64
7	11650.00	52.82	54.00	-1.18	37.08	15.74	Average	248	71
8	11650.00	67.22	74.00	-6.78	51.48	15.74	Peak	248	71

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

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

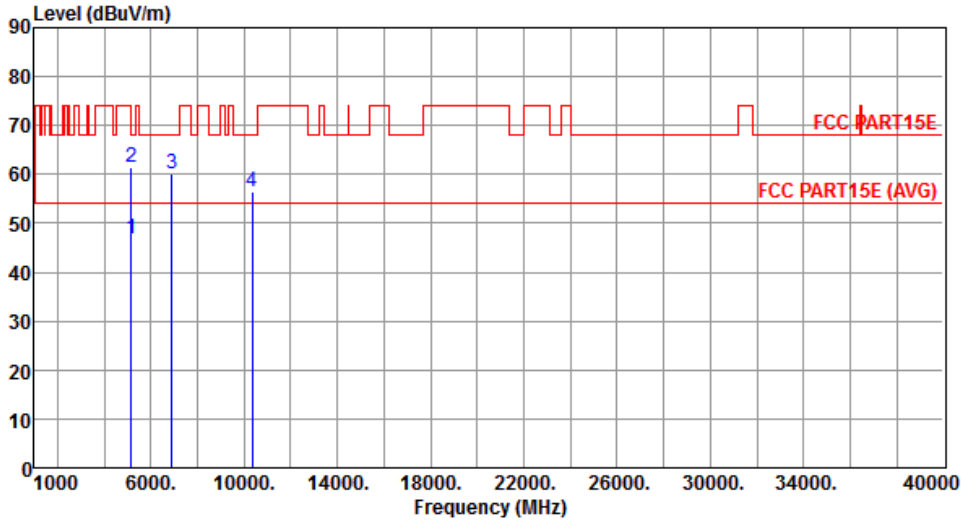
Modulation	VHT20	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.22	54.00	-7.78	40.35	5.87	Average	265	301
2	5150.00	59.04	74.00	-14.96	53.17	5.87	Peak	265	301
3	6906.66	54.11	68.20	-14.09	44.53	9.58	Peak	100	135
4	10360.00	56.44	68.20	-11.76	41.22	15.22	Peak	125	166

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

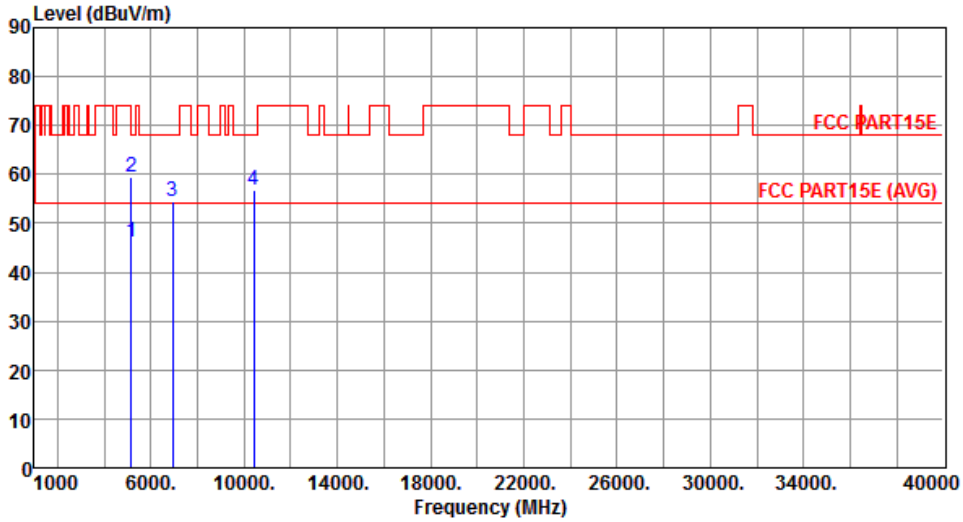
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.70	54.00	-7.30	40.83	5.87	Average	335	208
2	5150.00	61.59	74.00	-12.41	55.72	5.87	Peak	335	208
3	6906.66	60.26	68.20	-7.94	50.68	9.58	Peak	260	271
4	10360.00	56.42	68.20	-11.78	41.20	15.22	Peak	100	162

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

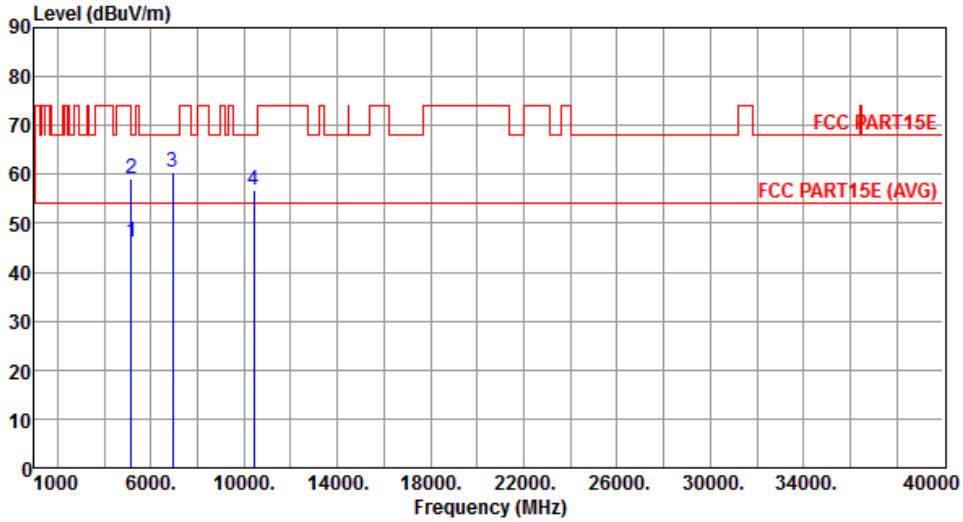
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.10	54.00	-7.90	40.23	5.87	Average	262	311
2	5150.00	59.32	74.00	-14.68	53.45	5.87	Peak	262	311
3	6933.33	54.57	68.20	-13.63	44.94	9.63	Peak	100	135
4	10400.00	56.74	68.20	-11.46	41.47	15.27	Peak	152	218

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

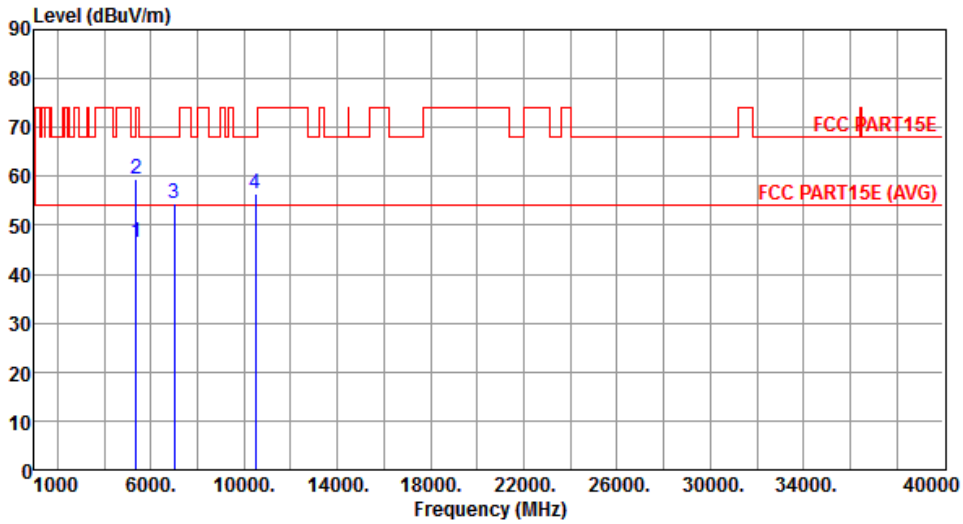
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.25	54.00	-7.75	40.38	5.87	Average	332	225
2	5150.00	59.23	74.00	-14.77	53.36	5.87	Peak	332	225
3	6933.33	60.46	68.20	-7.74	50.83	9.63	Peak	251	252
4	10400.00	56.76	68.20	-11.44	41.49	15.27	Peak	100	172

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

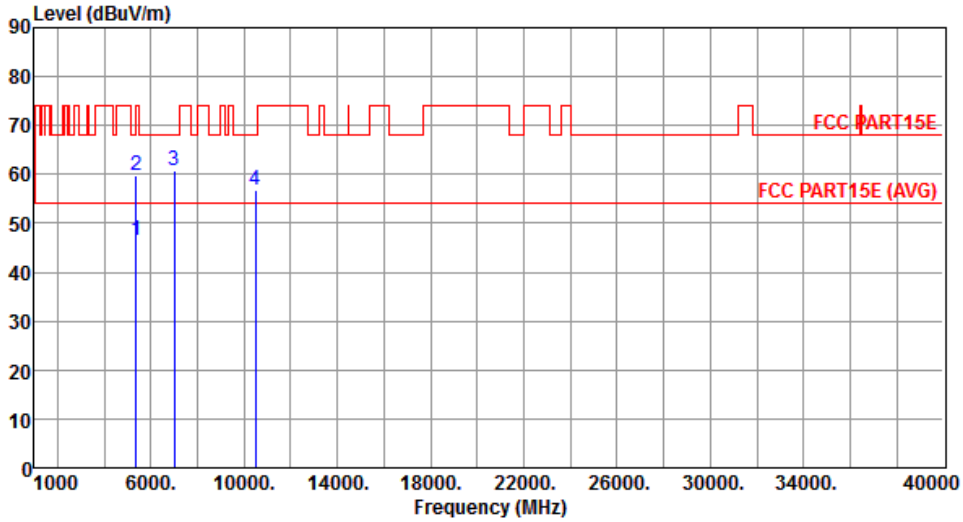
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.59	54.00	-7.41	40.38	6.21	Average	260	301
2	5350.00	59.56	74.00	-14.44	53.35	6.21	Peak	260	301
3	6986.66	54.60	68.20	-13.60	44.86	9.74	Peak	100	144
4	10480.00	56.34	68.20	-11.86	40.98	15.36	Peak	144	213

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

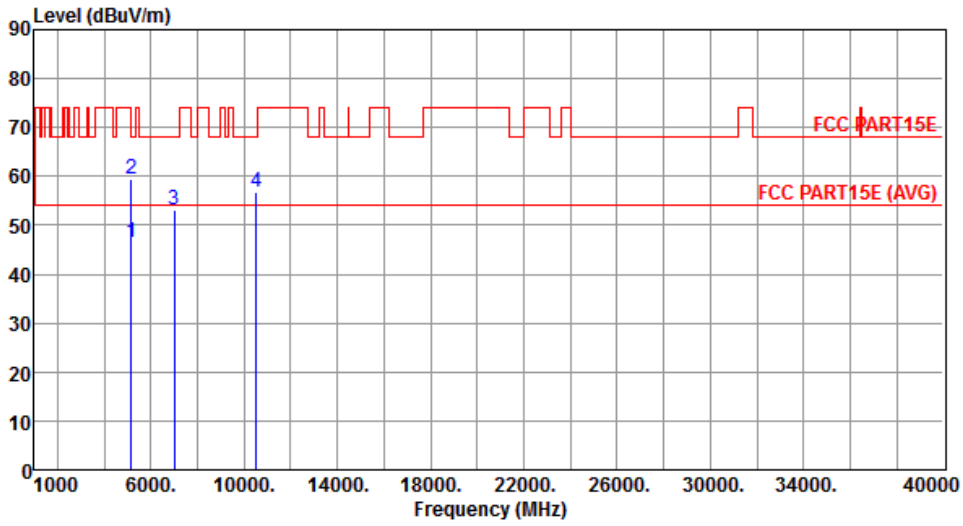
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.53	54.00	-7.47	40.32	6.21	Average	332	227
2	5350.00	59.87	74.00	-14.13	53.66	6.21	Peak	332	227
3	6986.66	60.67	68.20	-7.53	50.93	9.74	Peak	251	250
4	10480.00	56.64	68.20	-11.56	41.28	15.36	Peak	100	162

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

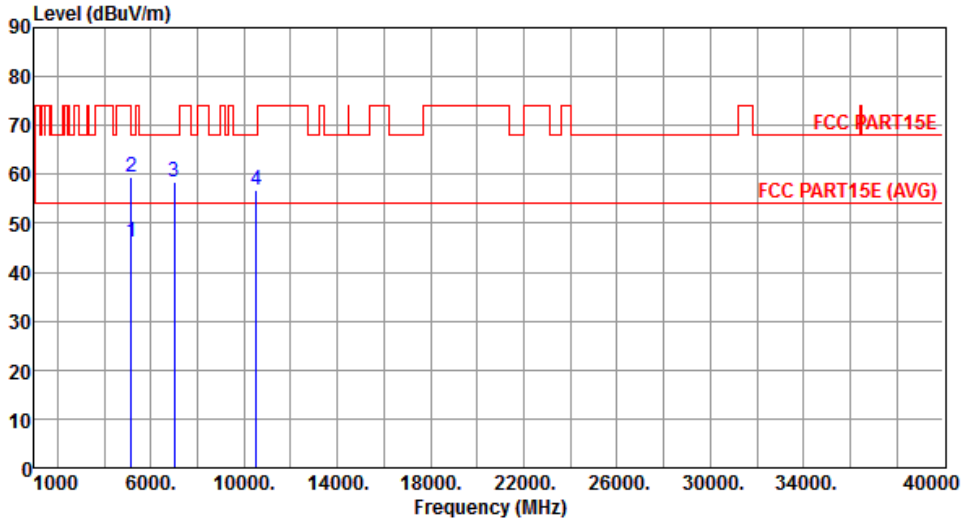
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.49	54.00	-7.51	40.62	5.87	Average	279	80
2	5150.00	59.38	74.00	-14.62	53.51	5.87	Peak	279	80
3	7013.33	53.00	68.20	-15.20	43.21	9.79	Peak	180	277
4	10520.00	56.73	68.20	-11.47	41.32	15.41	Peak	100	145

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

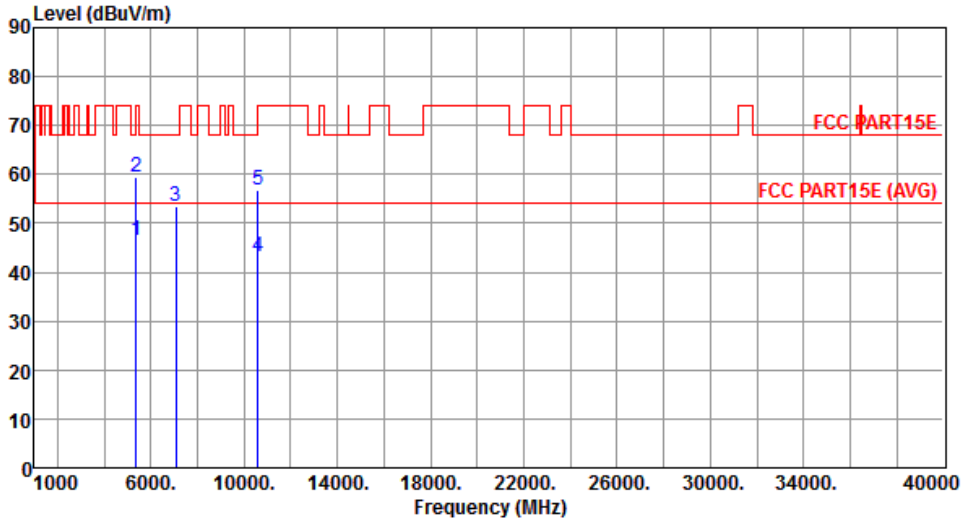
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.30	54.00	-7.70	40.43	5.87	Average	300	225
2	5150.00	59.29	74.00	-14.71	53.42	5.87	Peak	300	225
3	7013.33	58.32	68.20	-9.88	48.53	9.79	Peak	252	138
4	10520.00	56.71	68.20	-11.49	41.30	15.41	Peak	150	247

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

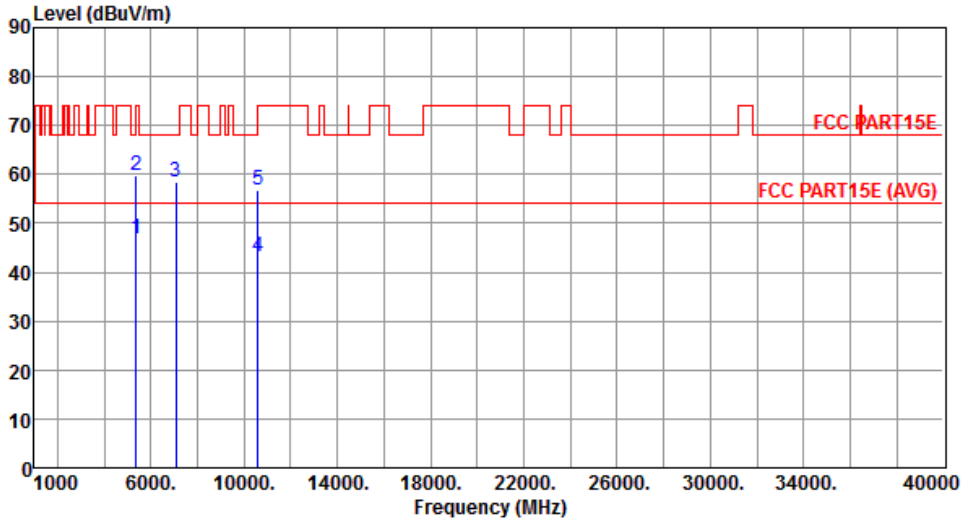
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.46	54.00	-7.54	40.25	6.21	Average	275	75
2	5350.00	59.61	74.00	-14.39	53.40	6.21	Peak	275	75
3	7066.66	53.31	68.20	-14.89	43.45	9.86	Peak	180	281
4	10600.00	43.09	54.00	-10.91	27.63	15.46	Average	100	162
5	10600.00	56.84	74.00	-17.16	41.38	15.46	Peak	100	162

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

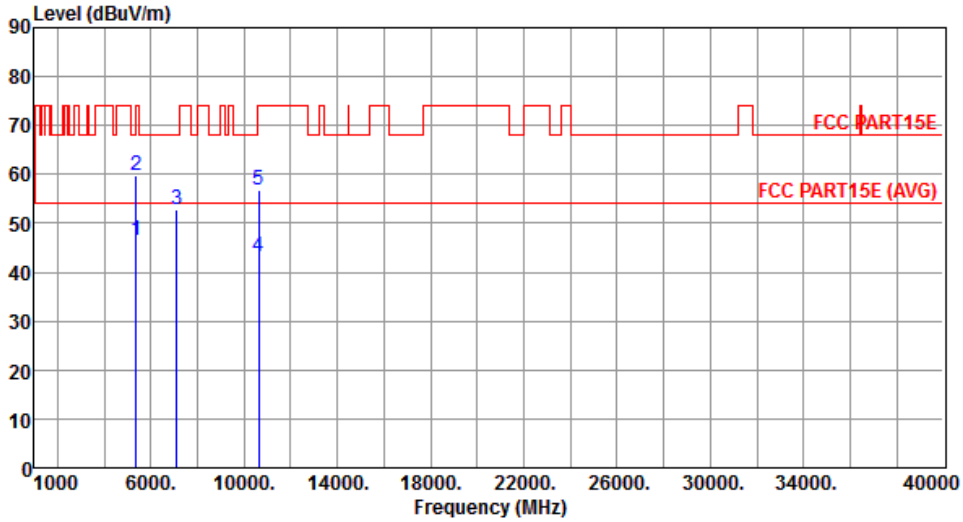
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.75	54.00	-7.25	40.54	6.21	Average	302	228
2	5350.00	59.63	74.00	-14.37	53.42	6.21	Peak	302	228
3	7066.66	58.60	68.20	-9.60	48.74	9.86	Peak	259	132
4	10600.00	43.11	54.00	-10.89	27.65	15.46	Average	150	241
5	10600.00	56.67	74.00	-17.33	41.21	15.46	Peak	150	241

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

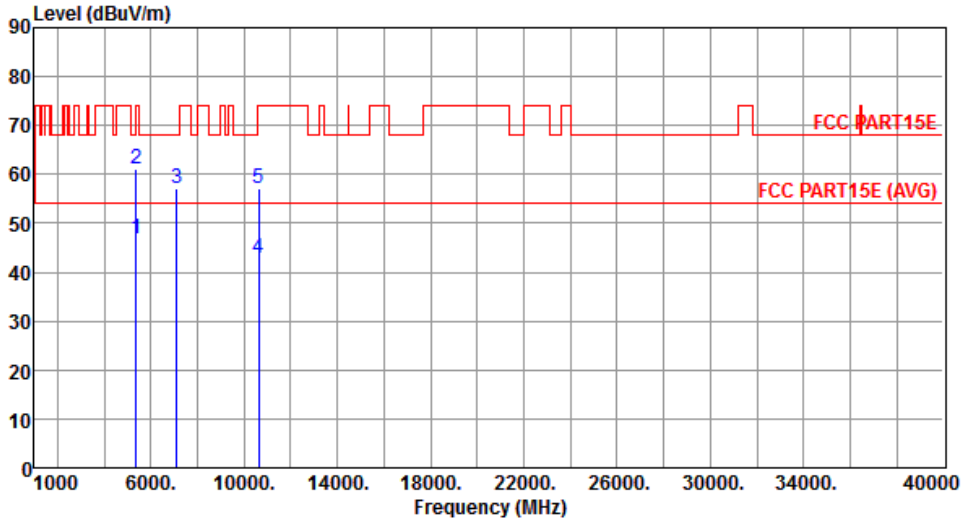
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.46	54.00	-7.54	40.25	6.21	Average	270	81
2	5350.00	59.78	74.00	-14.22	53.57	6.21	Peak	270	81
3	7093.33	52.82	68.20	-15.38	42.91	9.91	Peak	182	283
4	10640.00	43.14	54.00	-10.86	27.65	15.49	Average	100	163
5	10640.00	56.80	74.00	-17.20	41.31	15.49	Peak	100	163

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

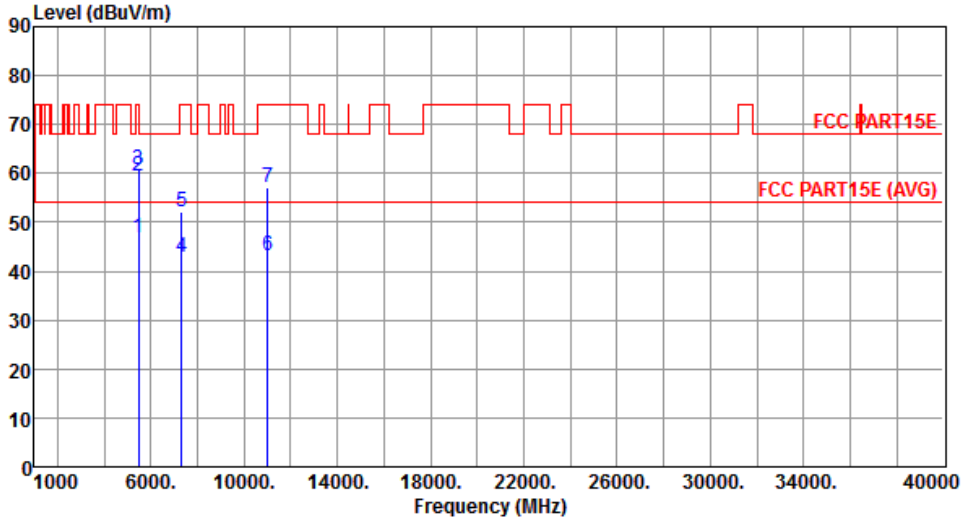
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.83	54.00	-7.17	40.62	6.21	Average	300	227
2	5350.00	60.95	74.00	-13.05	54.74	6.21	Peak	300	227
3	7093.33	57.03	68.20	-11.17	47.12	9.91	Peak	260	135
4	10640.00	42.97	54.00	-11.03	27.48	15.49	Average	152	242
5	10640.00	57.10	74.00	-16.90	41.61	15.49	Peak	152	242

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

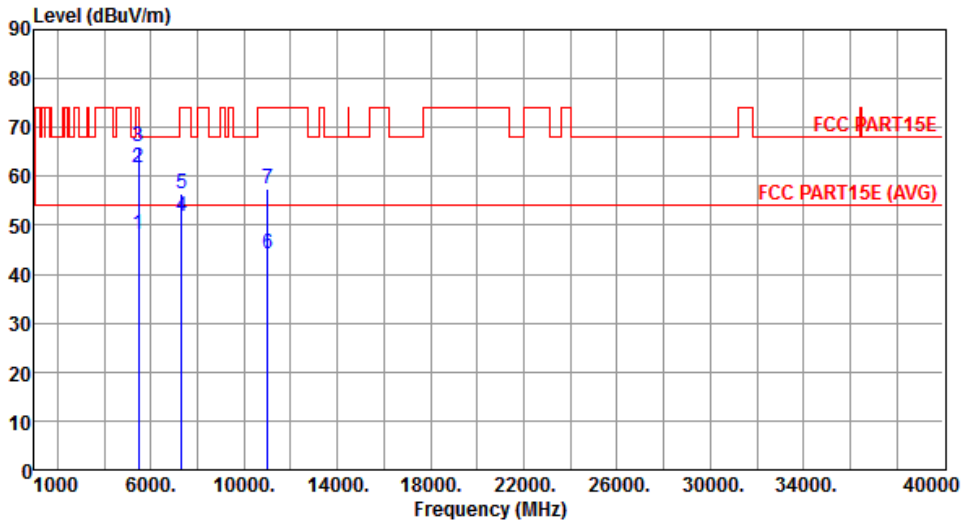
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.79	54.00	-7.21	40.43	6.36	Average	281	285
2	5460.00	59.60	74.00	-14.40	53.24	6.36	Peak	281	285
3	5470.00	60.82	68.20	-7.38	54.45	6.37	Peak	281	285
4	7333.33	42.68	54.00	-11.32	32.38	10.30	Average	215	95
5	7333.33	52.23	74.00	-21.77	41.93	10.30	Peak	215	95
6	11000.00	43.17	54.00	-10.83	27.43	15.74	Average	100	182
7	11000.00	57.12	74.00	-16.88	41.38	15.74	Peak	100	176

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

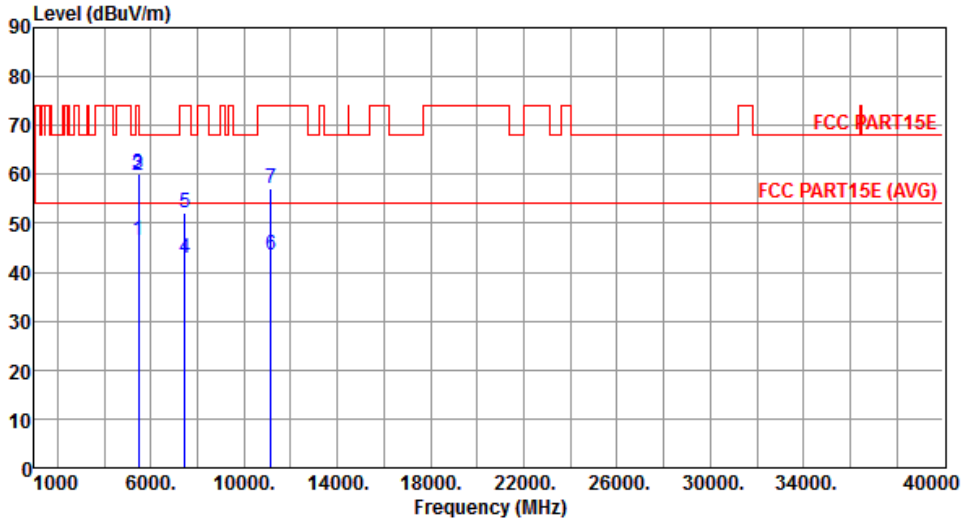
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.99	54.00	-6.01	41.63	6.36	Average	280	241
2	5460.00	61.78	74.00	-12.22	55.42	6.36	Peak	280	241
3	5470.00	66.00	68.20	-2.20	59.63	6.37	Peak	280	241
4	7333.33	51.92	54.00	-2.08	41.62	10.30	Average	282	62
5	7333.33	56.51	74.00	-17.49	46.21	10.30	Peak	282	62
6	11000.00	44.29	54.00	-9.71	28.55	15.74	Average	279	231
7	11000.00	57.45	74.00	-16.55	41.71	15.74	Peak	279	231

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

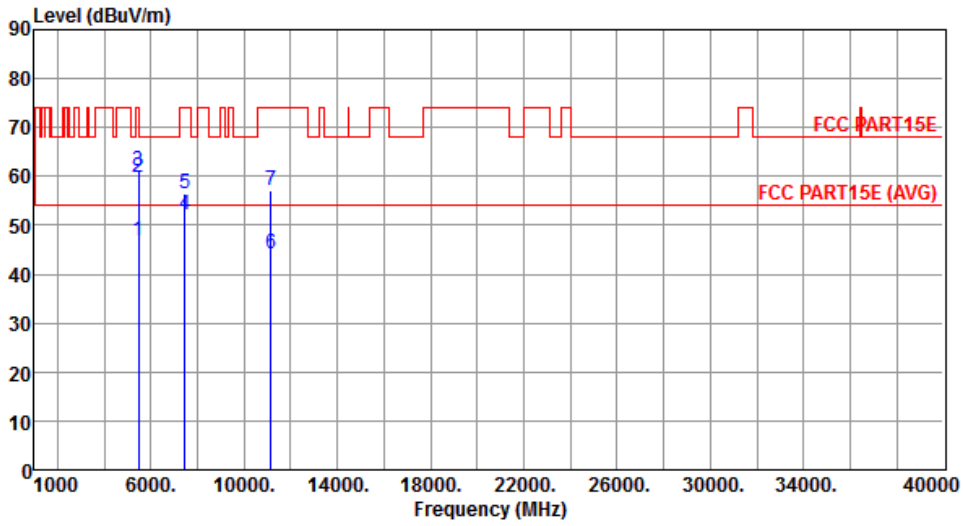
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.60	54.00	-7.40	40.24	6.36	Average	275	275
2	5460.00	59.87	74.00	-14.13	53.51	6.36	Peak	275	275
3	5470.00	60.19	68.20	-8.01	53.82	6.37	Peak	275	275
4	7440.00	42.72	54.00	-11.28	32.17	10.55	Average	208	97
5	7440.00	52.09	74.00	-21.91	41.54	10.55	Peak	208	97
6	11160.00	43.47	54.00	-10.53	27.64	15.83	Average	100	171
7	11160.00	57.07	74.00	-16.93	41.24	15.83	Peak	100	171

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

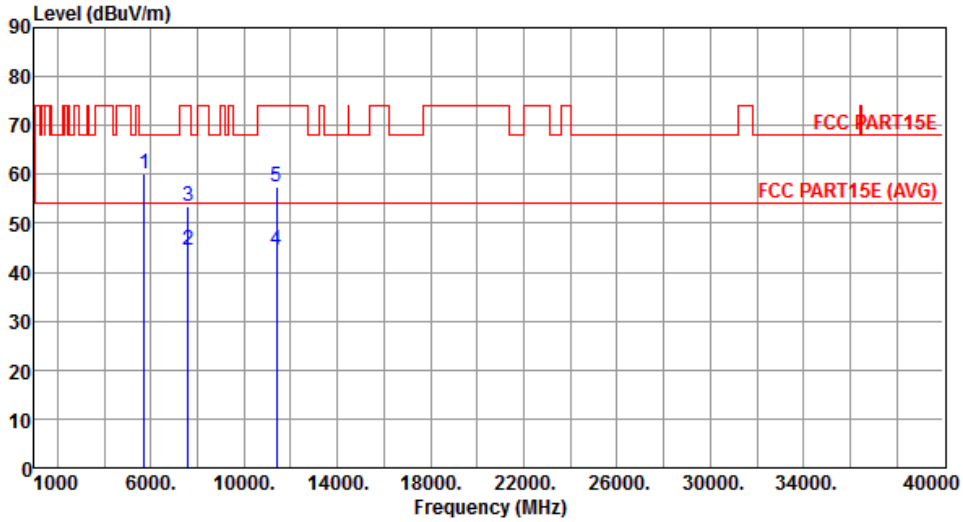
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.71	54.00	-7.29	40.35	6.36	Average	272	240
2	5460.00	59.80	74.00	-14.20	53.44	6.36	Peak	272	240
3	5470.00	60.98	68.20	-7.22	54.61	6.37	Peak	272	240
4	7440.00	52.00	54.00	-2.00	41.45	10.55	Average	295	62
5	7440.00	56.33	74.00	-17.67	45.78	10.55	Peak	295	62
6	11160.00	44.17	54.00	-9.83	28.34	15.83	Average	283	222
7	11160.00	57.26	74.00	-16.74	41.43	15.83	Peak	283	222

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

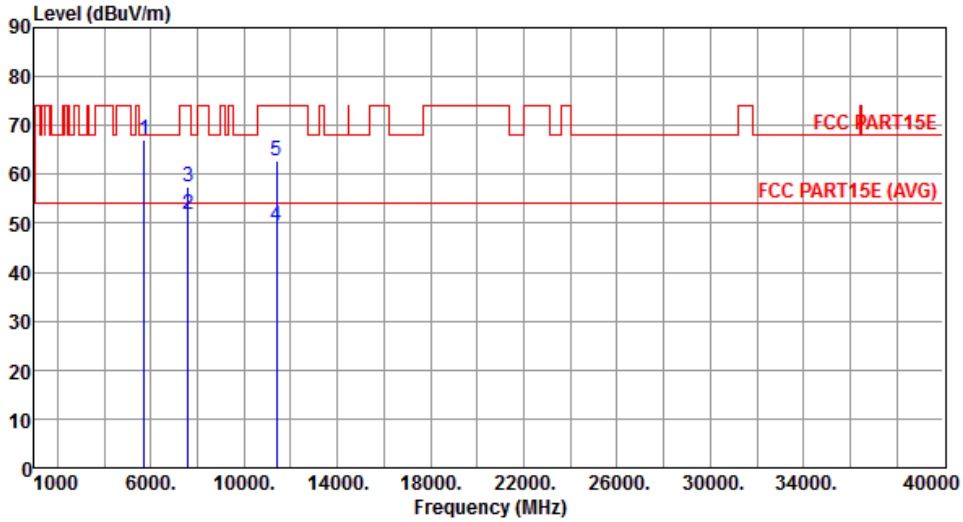
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	60.27	68.20	-7.93	53.44	6.83	Peak	242	110
2	7600.00	44.51	54.00	-9.49	33.48	11.03	Average	242	281
3	7600.00	53.48	74.00	-20.52	42.45	11.03	Peak	242	281
4	11400.00	44.41	54.00	-9.59	28.45	15.96	Average	116	240
5	11400.00	57.49	74.00	-16.51	41.53	15.96	Peak	116	240

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

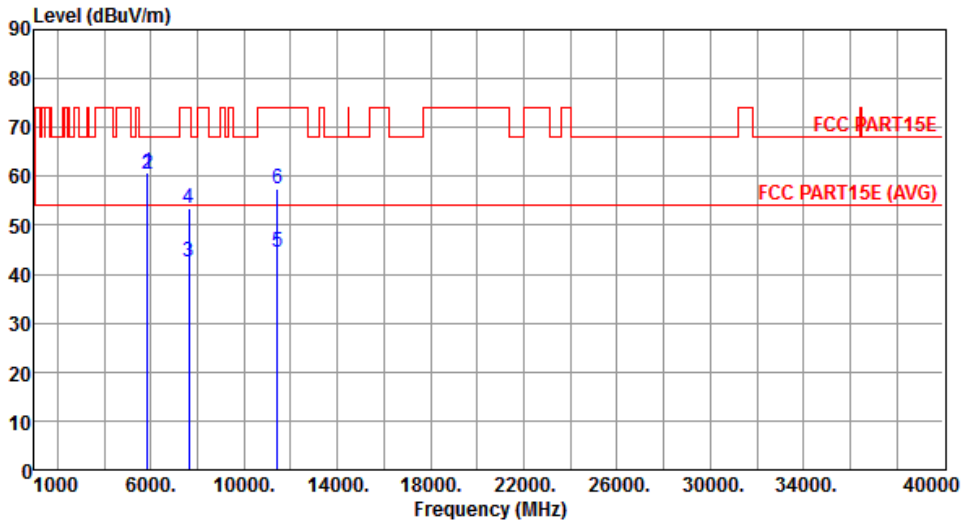
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	67.18	68.20	-1.02	60.35	6.83	Peak	337	210
2	7600.00	51.78	54.00	-2.22	40.75	11.03	Average	251	75
3	7600.00	57.31	74.00	-16.69	46.28	11.03	Peak	251	75
4	11400.00	49.58	54.00	-4.42	33.62	15.96	Average	240	78
5	11400.00	62.64	74.00	-11.36	46.68	15.96	Peak	240	78

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

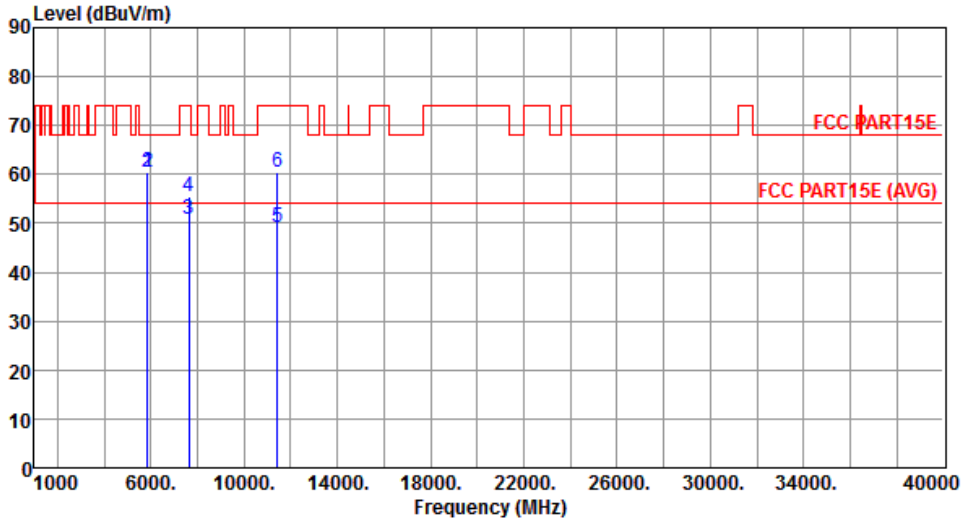
Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Horizontal		



	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	60.71	68.20	-7.49	53.55	7.16	Peak	240	101
2	5860.00	60.30	68.20	-7.90	53.12	7.18	Peak	240	101
3	7626.66	42.54	54.00	-11.46	31.52	11.02	Average	239	108
4	7626.66	53.33	74.00	-20.67	42.31	11.02	Peak	239	108
5	11440.00	44.42	54.00	-9.58	28.43	15.99	Average	152	215
6	11440.00	57.37	74.00	-16.63	41.38	15.99	Peak	152	215

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

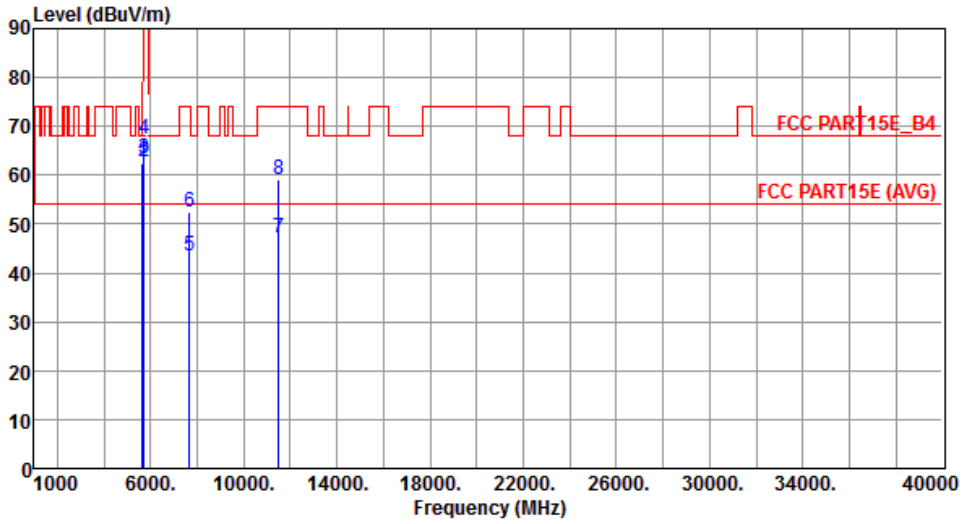
Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	60.51	68.20	-7.69	53.35	7.16	Peak	292	206
2	5860.00	60.60	68.20	-7.60	53.42	7.18	Peak	292	206
3	7626.66	50.65	54.00	-3.35	39.63	11.02	Average	253	68
4	7626.66	55.37	74.00	-18.63	44.35	11.02	Peak	252	68
5	11440.00	49.20	54.00	-4.80	33.21	15.99	Average	242	71
6	11440.00	60.30	74.00	-13.70	44.31	15.99	Peak	242	71

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

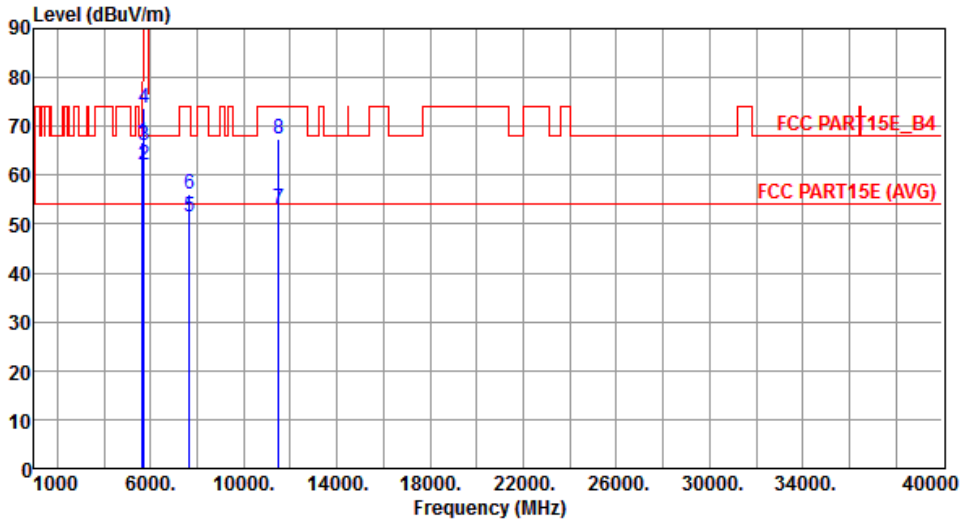
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.59	68.20	-5.61	55.96	6.63	Peak	285	276
2	5700.00	62.89	105.20	-42.31	56.12	6.77	Peak	285	276
3	5720.00	63.59	110.80	-47.21	56.77	6.82	Peak	285	276
4	5725.00	67.27	122.20	-54.93	60.44	6.83	Peak	285	276
5	7660.00	43.55	54.00	-10.45	32.53	11.02	Average	255	280
6	7660.00	52.55	74.00	-21.45	41.53	11.02	Peak	255	280
7	11490.00	47.13	54.00	-6.87	31.12	16.01	Average	248	320
8	11490.00	59.25	74.00	-14.75	43.24	16.01	Peak	248	320

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

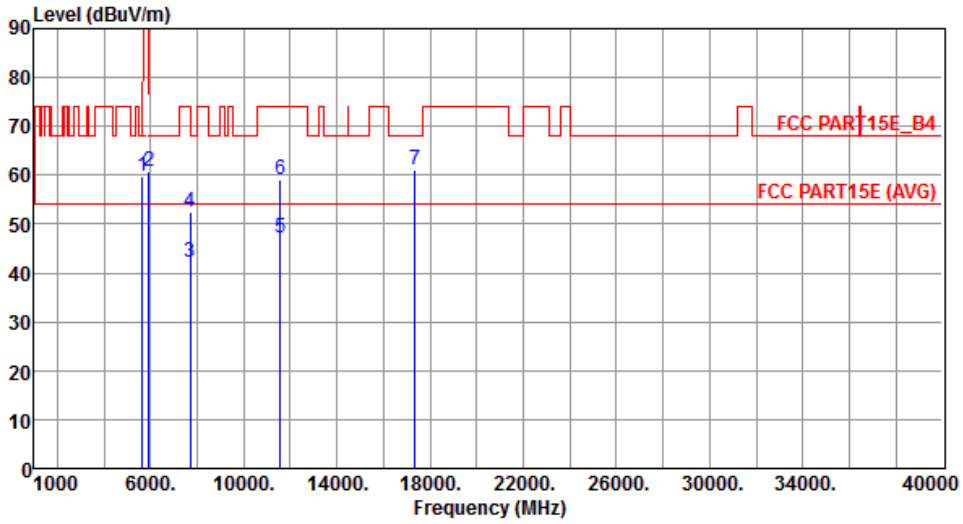
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.75	68.20	-1.45	60.12	6.63	Peak	272	90
2	5700.00	62.18	105.20	-43.02	55.41	6.77	Peak	272	90
3	5720.00	66.17	110.80	-44.63	59.35	6.82	Peak	272	90
4	5725.00	73.80	122.20	-48.40	66.97	6.83	Peak	272	90
5	7660.00	51.33	54.00	-2.67	40.31	11.02	Average	251	63
6	7660.00	56.13	74.00	-17.87	45.11	11.02	Peak	251	63
7	11490.00	52.99	54.00	-1.01	36.98	16.01	Average	242	72
8	11490.00	67.29	74.00	-6.71	51.28	16.01	Peak	242	72

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

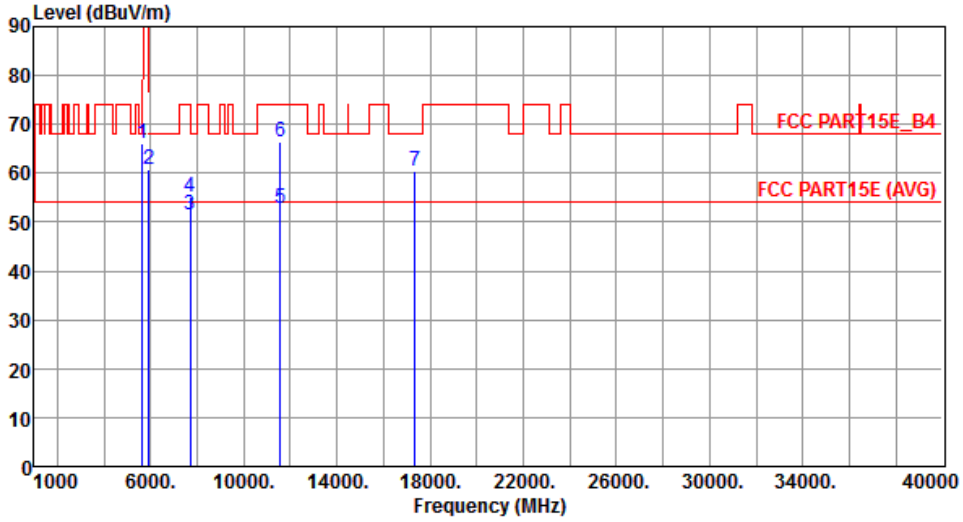
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.84	68.20	-8.36	53.21	6.63	Peak	291	275
2	5925.00	60.76	68.20	-7.44	53.42	7.34	Peak	291	275
3	7713.33	42.26	54.00	-11.74	31.24	11.02	Average	262	282
4	7713.33	52.37	74.00	-21.63	41.35	11.02	Peak	262	282
5	11570.00	47.20	54.00	-6.80	31.31	15.89	Average	245	320
6	11570.00	59.17	74.00	-14.83	43.28	15.89	Peak	245	320
7	17355.00	61.16	68.20	-7.04	42.34	18.82	Peak	160	242

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

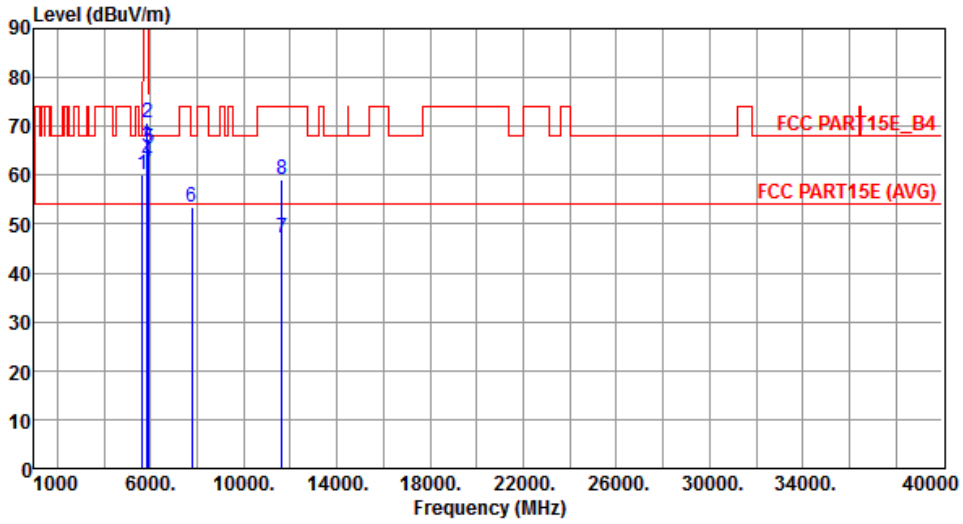
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.25	68.20	-1.95	59.62	6.63	Peak	269	90
2	5925.00	60.82	68.20	-7.38	53.48	7.34	Peak	269	90
3	7713.33	51.54	54.00	-2.46	40.52	11.02	Average	281	62
4	7713.33	55.01	74.00	-18.99	43.99	11.02	Peak	281	62
5	11570.00	52.95	54.00	-1.05	37.06	15.89	Average	239	72
6	11570.00	66.31	74.00	-7.69	50.42	15.89	Peak	239	72
7	17355.00	60.45	68.20	-7.75	41.63	18.82	Peak	242	240

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

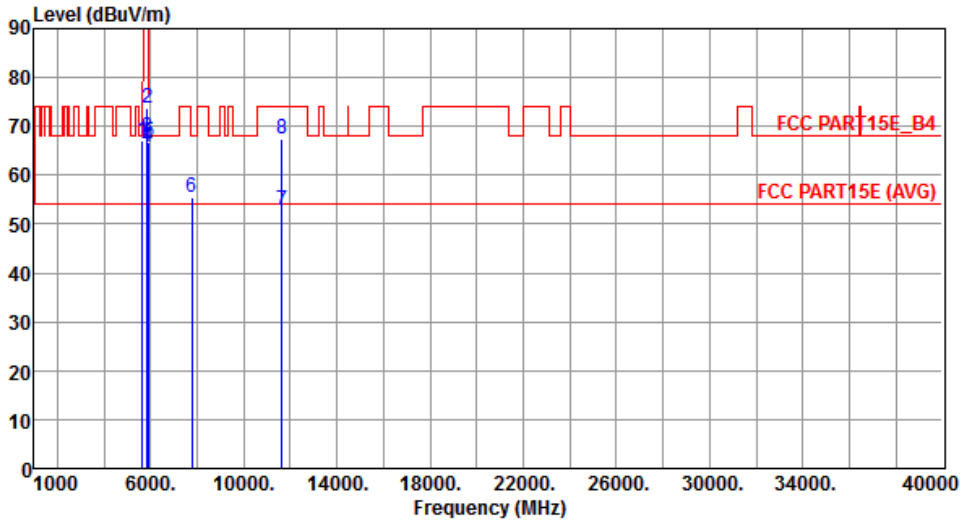
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	60.08	68.20	-8.12	53.45	6.63	Peak	282	276
2	5850.00	70.62	122.20	-51.58	63.46	7.16	Peak	282	276
3	5855.00	65.90	110.80	-44.90	58.72	7.18	Peak	282	276
4	5875.00	62.69	105.20	-42.51	55.46	7.23	Peak	282	276
5	5925.00	65.58	68.20	-2.62	58.24	7.34	Peak	282	276
6	7766.66	53.45	68.20	-14.75	42.44	11.01	Peak	100	243
7	11650.00	47.30	54.00	-6.70	31.56	15.74	Average	265	320
8	11650.00	59.22	74.00	-14.78	43.48	15.74	Peak	265	320

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

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

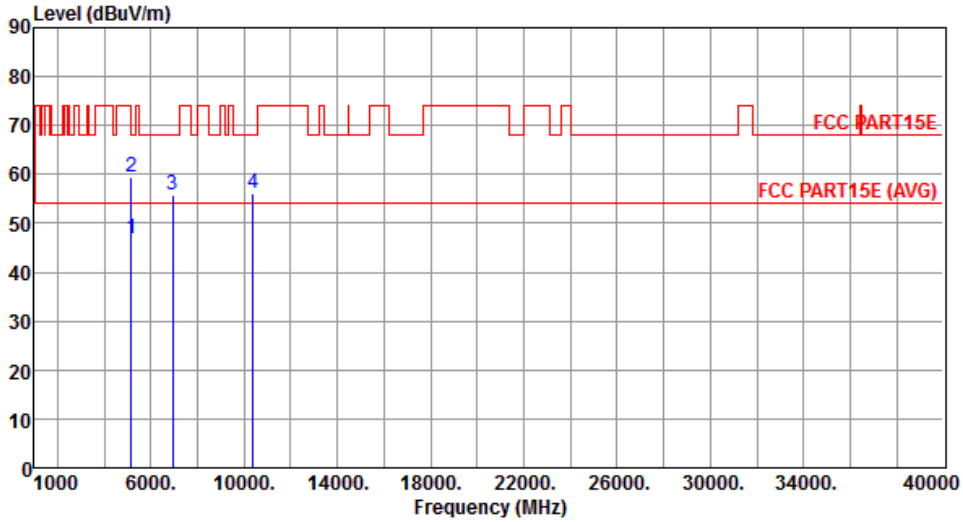


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.96	68.20	-1.24	60.33	6.63	Peak	282	240
2	5850.00	73.88	122.20	-48.32	66.72	7.16	Peak	282	240
3	5855.00	67.60	110.80	-43.20	60.42	7.18	Peak	282	240
4	5875.00	65.64	105.20	-39.56	58.41	7.23	Peak	282	240
5	5925.00	66.72	68.20	-1.48	59.38	7.34	Peak	282	240
6	7766.66	55.62	68.20	-12.58	44.61	11.01	Peak	235	63
7	11650.00	52.86	54.00	-1.14	37.12	15.74	Average	245	70
8	11650.00	67.40	74.00	-6.60	51.66	15.74	Peak	245	70

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

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

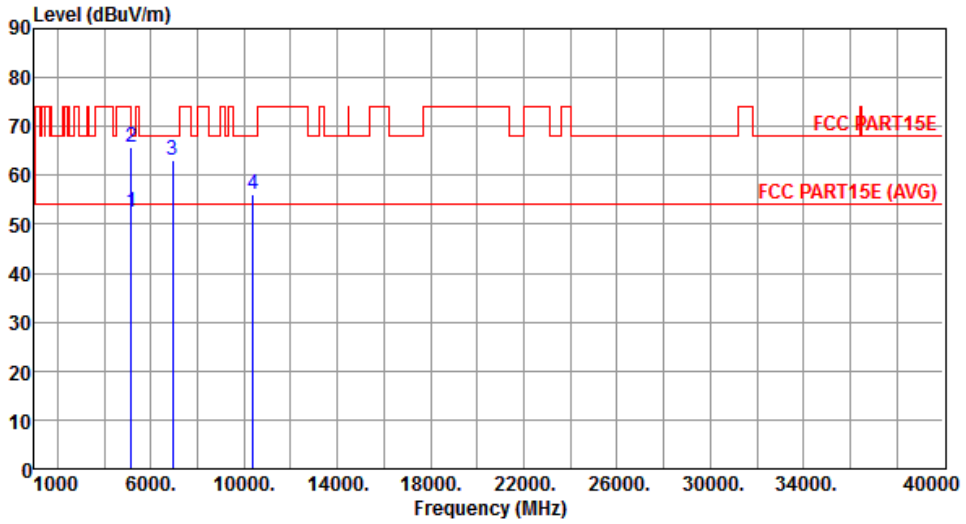
Modulation	VHT40	**Test Freq. (MHz)**	5190
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.70	54.00	-7.30	40.83	5.87	Average	300	278
2	5150.00	59.44	74.00	-14.56	53.57	5.87	Peak	300	278
3	6920.00	55.92	68.20	-12.28	46.31	9.61	Peak	100	133
4	10380.00	56.20	68.20	-12.00	40.95	15.25	Peak	100	185

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

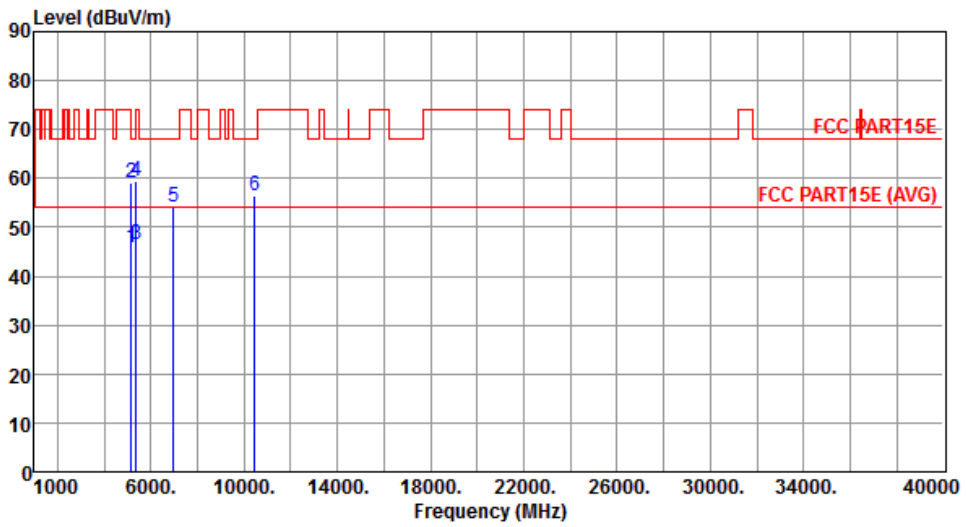
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	52.45	54.00	-1.55	46.58	5.87	Average	300	226
2	5150.00	65.83	74.00	-8.17	59.96	5.87	Peak	300	226
3	6920.00	63.06	68.20	-5.14	53.45	9.61	Peak	261	252
4	10380.00	56.08	68.20	-12.12	40.83	15.25	Peak	100	168

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

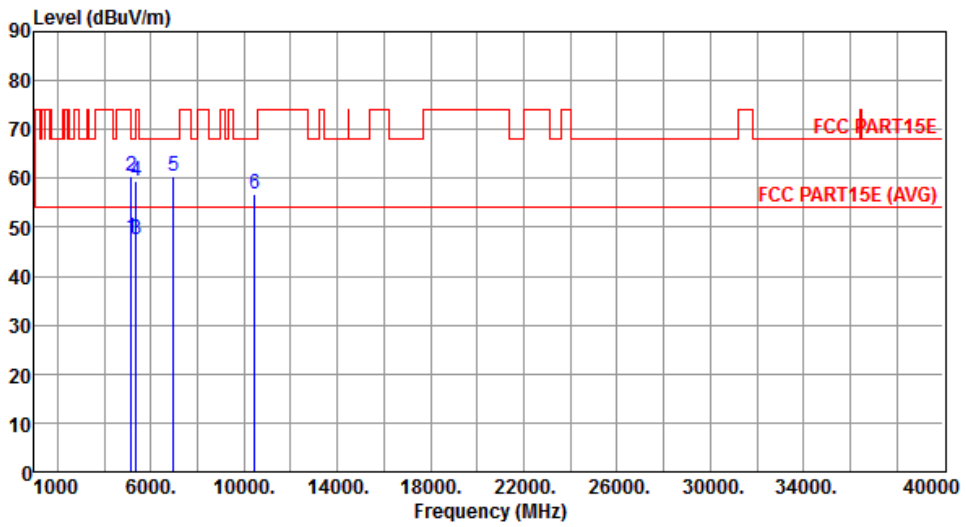
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.99	54.00	-8.01	40.12	5.87	Average	300	293
2	5150.00	59.26	74.00	-14.74	53.39	5.87	Peak	300	293
3	5350.00	46.45	54.00	-7.55	40.24	6.21	Average	300	293
4	5350.00	59.38	74.00	-14.62	53.17	6.21	Peak	300	293
5	6973.33	54.10	68.20	-14.10	44.38	9.72	Peak	100	131
6	10460.00	56.60	68.20	-11.60	41.26	15.34	Peak	100	175

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

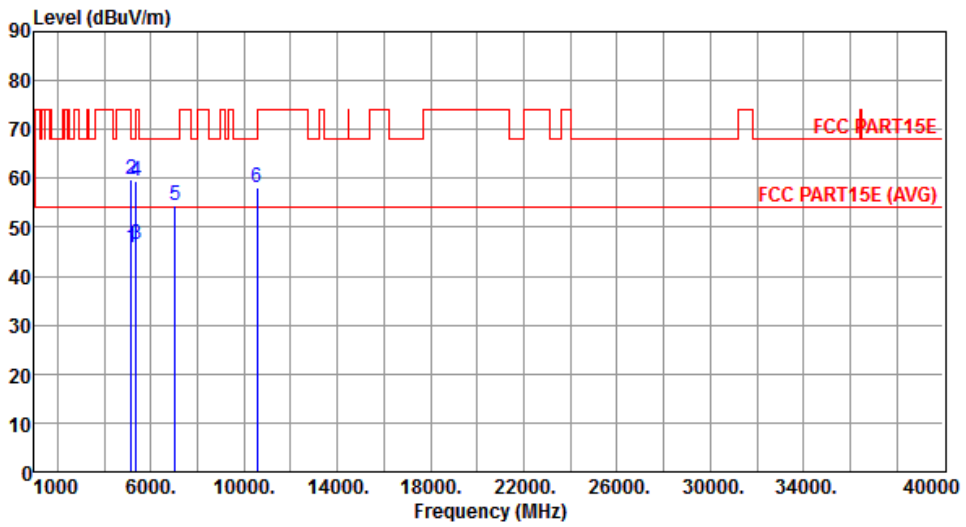
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.83	54.00	-6.17	41.96	5.87	Average	300	22
2	5150.00	60.40	74.00	-13.60	54.53	5.87	Peak	300	22
3	5350.00	47.43	54.00	-6.57	41.22	6.21	Average	300	225
4	5350.00	59.59	74.00	-14.41	53.38	6.21	Peak	300	225
5	6973.33	60.44	68.20	-7.76	50.72	9.72	Peak	266	256
6	10460.00	56.71	68.20	-11.49	41.37	15.34	Peak	100	152

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

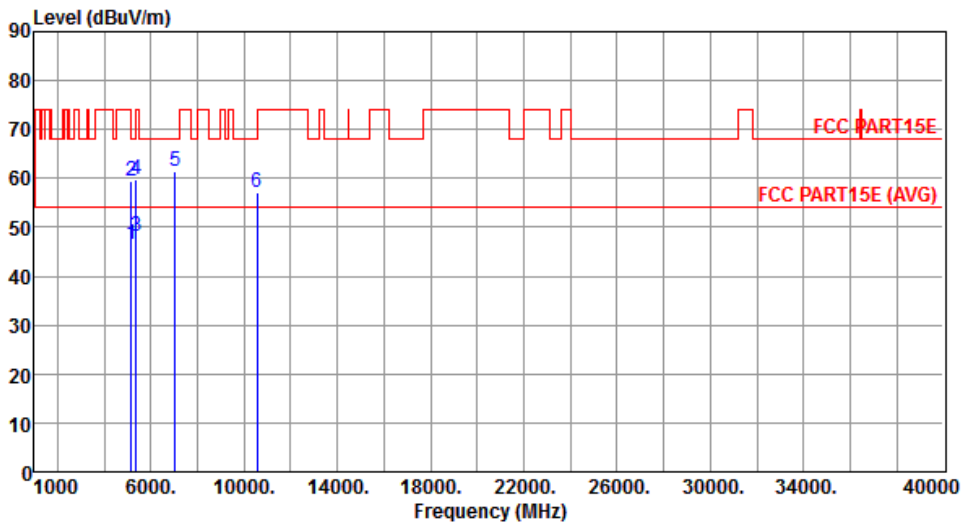
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.89	54.00	-8.11	40.02	5.87	Average	283	299
2	5150.00	59.77	74.00	-14.23	53.90	5.87	Peak	283	299
3	5350.00	46.55	54.00	-7.45	40.34	6.21	Average	283	299
4	5350.00	59.47	74.00	-14.53	53.26	6.21	Peak	283	299
5	7026.66	54.34	68.20	-13.86	44.53	9.81	Peak	184	285
6	10540.00	58.17	68.20	-10.03	42.75	15.42	Peak	100	214

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

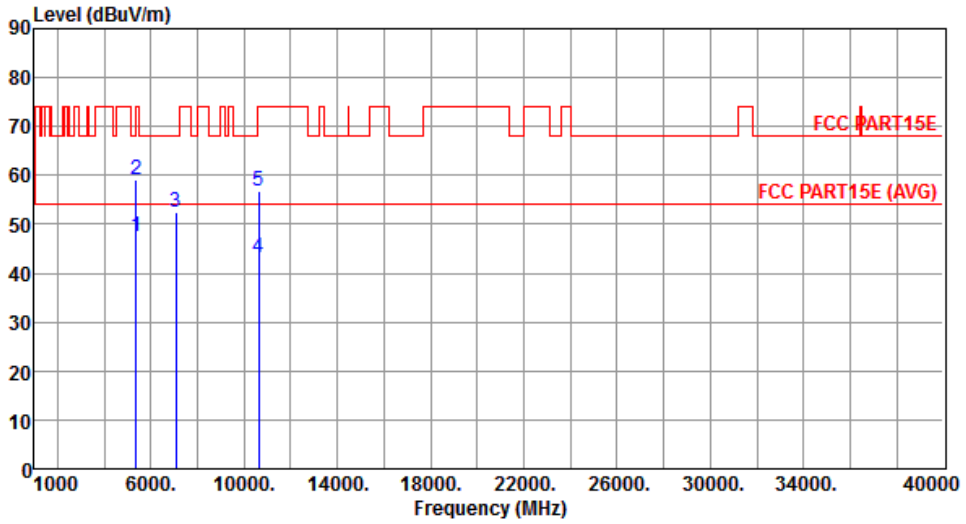
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.49	54.00	-7.51	40.62	5.87	Average	302	225
2	5150.00	59.56	74.00	-14.44	53.69	5.87	Peak	302	225
3	5350.00	48.22	54.00	-5.78	42.01	6.21	Average	302	225
4	5350.00	59.81	74.00	-14.19	53.60	6.21	Peak	302	225
5	7026.66	61.33	68.20	-6.87	51.52	9.81	Peak	262	135
6	10540.00	57.04	68.20	-11.16	41.62	15.42	Peak	100	177

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

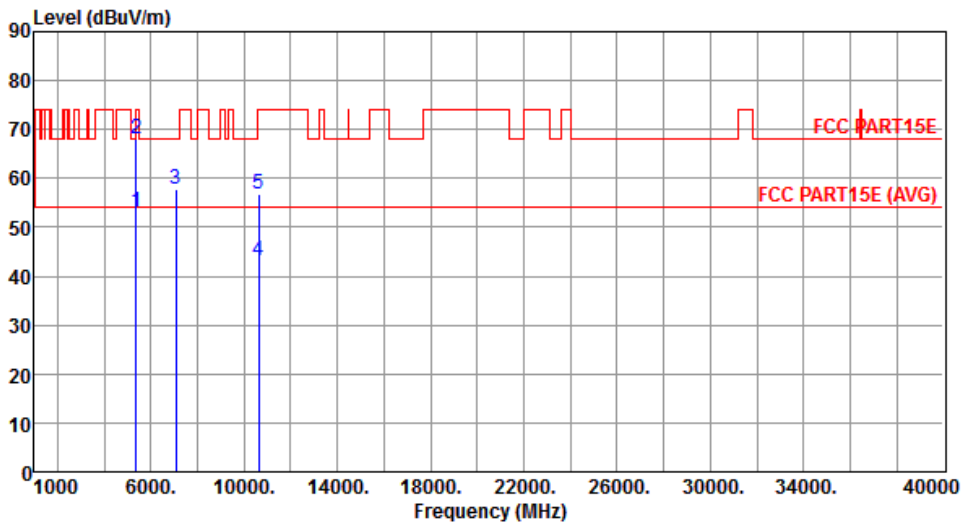
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.51	54.00	-6.49	41.30	6.21	Average	283	299
2	5350.00	59.08	74.00	-14.92	52.87	6.21	Peak	283	299
3	7080.00	52.44	68.20	-15.76	42.55	9.89	Peak	185	285
4	10620.00	43.08	54.00	-10.92	27.60	15.48	Average	100	212
5	10620.00	56.90	74.00	-17.10	41.42	15.48	Peak	100	212

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

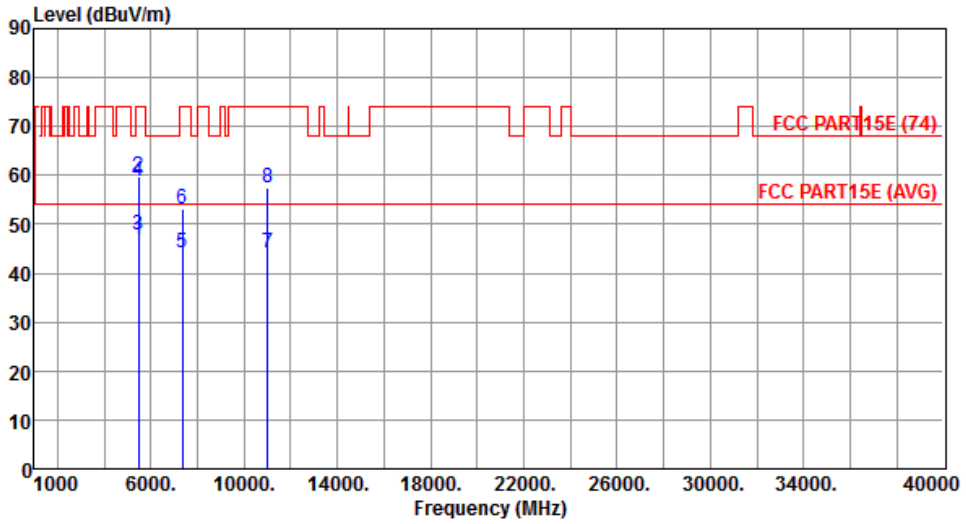
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.99	54.00	-1.01	46.78	6.21	Average	281	7
2	5350.00	68.19	74.00	-5.81	61.98	6.21	Peak	281	7
3	7080.00	57.87	68.20	-10.33	47.98	9.89	Peak	263	135
4	10620.00	43.03	54.00	-10.97	27.55	15.48	Average	100	175
5	10620.00	56.79	74.00	-17.21	41.31	15.48	Peak	100	175

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

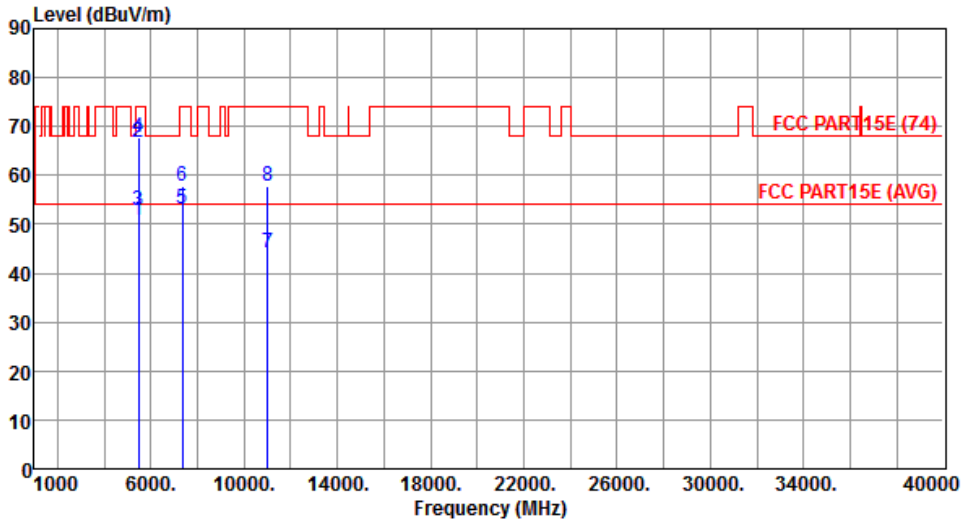
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.89	54.00	-7.11	40.53	6.36	Average	283	280
2	5460.00	59.70	74.00	-14.30	53.34	6.36	Peak	283	280
3	5470.00	47.86	54.00	-6.14	41.49	6.37	Average	283	280
4	5470.00	58.91	74.00	-15.09	52.54	6.37	Peak	283	280
5	7346.66	44.26	54.00	-9.74	33.94	10.32	Average	210	78
6	7346.66	53.02	74.00	-20.98	42.70	10.32	Peak	210	78
7	11020.00	44.23	54.00	-9.77	28.48	15.75	Average	155	164
8	11020.00	57.29	74.00	-16.71	41.54	15.75	Peak	155	164

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

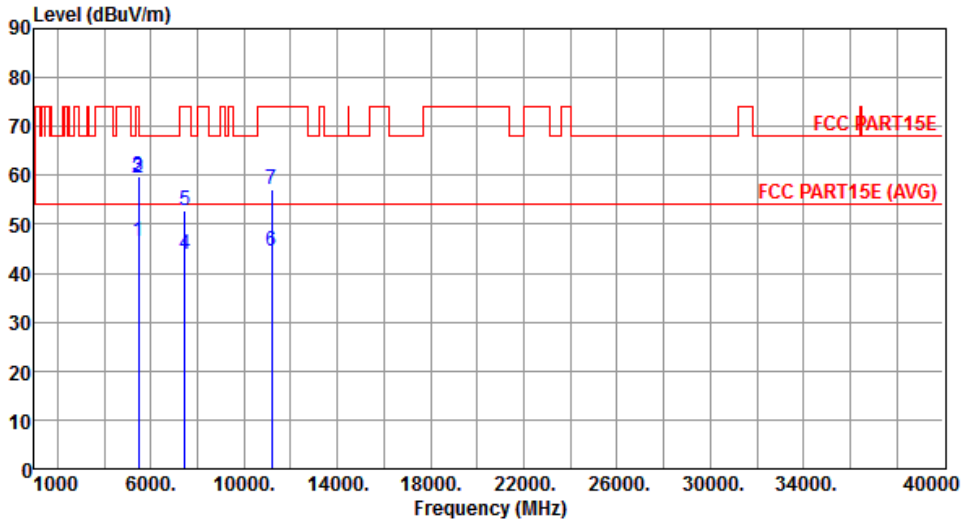
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	50.65	54.00	-3.35	44.29	6.36	Average	277	274
2	5460.00	66.60	74.00	-7.40	60.24	6.36	Peak	277	274
3	5470.00	52.88	54.00	-1.12	46.51	6.37	Average	277	274
4	5470.00	67.60	74.00	-6.40	61.23	6.37	Peak	277	274
5	7346.66	52.99	54.00	-1.01	42.67	10.32	Average	281	65
6	7346.66	57.63	74.00	-16.37	47.31	10.32	Peak	281	65
7	11020.00	44.28	54.00	-9.72	28.53	15.75	Average	215	246
8	11020.00	57.68	74.00	-16.32	41.93	15.75	Peak	215	246

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

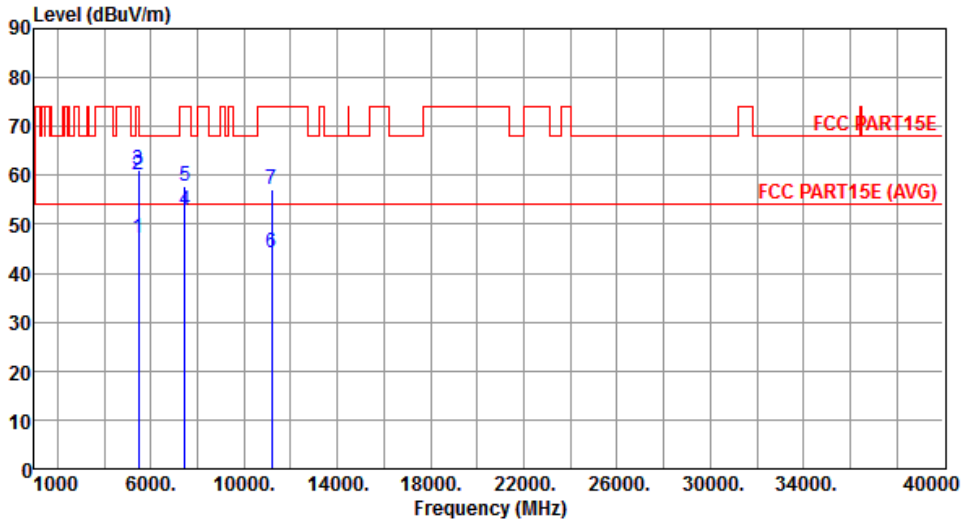
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.60	54.00	-7.40	40.24	6.36	Average	282	245
2	5460.00	59.60	74.00	-14.40	53.24	6.36	Peak	282	245
3	5470.00	59.72	68.20	-8.48	53.35	6.37	Peak	282	245
4	7453.33	43.91	54.00	-10.09	33.31	10.60	Average	205	77
5	7453.33	52.95	74.00	-21.05	42.35	10.60	Peak	205	77
6	11180.00	44.37	54.00	-9.63	28.53	15.84	Average	138	162
7	11180.00	57.15	74.00	-16.85	41.31	15.84	Peak	138	162

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

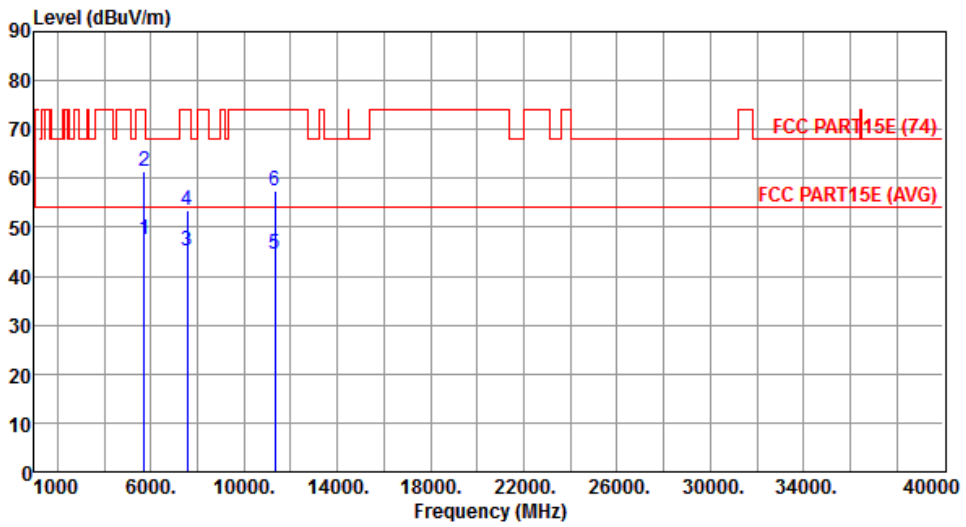
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.01	54.00	-6.99	40.65	6.36	Average	277	262
2	5460.00	60.18	74.00	-13.82	53.82	6.36	Peak	277	262
3	5470.00	61.05	68.20	-7.15	54.68	6.37	Peak	277	262
4	7453.33	52.97	54.00	-1.03	42.37	10.60	Average	280	63
5	7453.33	57.72	74.00	-16.28	47.12	10.60	Peak	280	63
6	11180.00	44.21	54.00	-9.79	28.37	15.84	Average	212	238
7	11180.00	57.28	74.00	-16.72	41.44	15.84	Peak	212	238

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

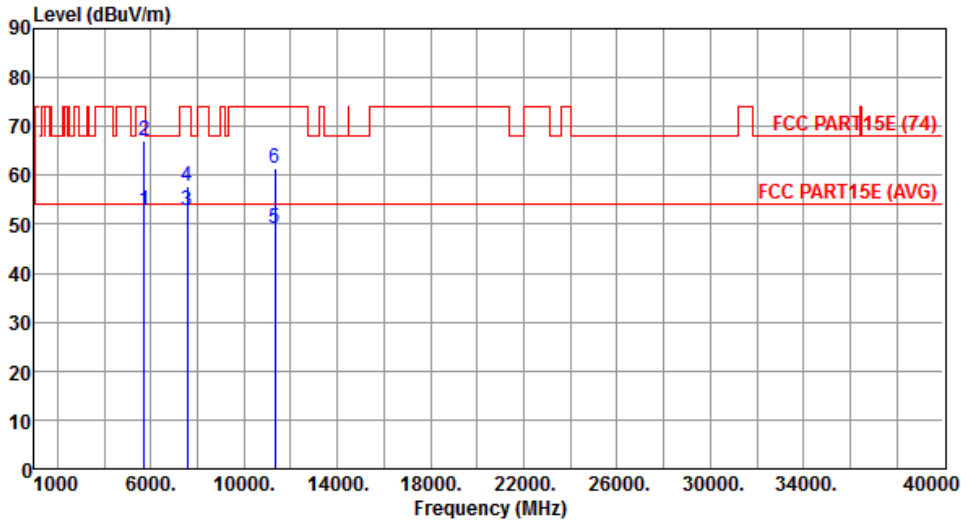
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	47.34	54.00	-6.66	40.51	6.83	Average	252	98
2	5725.00	61.39	74.00	-12.61	54.56	6.83	Peak	252	98
3	7560.00	45.30	54.00	-8.70	34.38	10.92	Average	242	282
4	7560.00	53.48	74.00	-20.52	42.56	10.92	Peak	242	282
5	11340.00	44.42	54.00	-9.58	28.49	15.93	Average	240	256
6	11340.00	57.37	74.00	-16.63	41.44	15.93	Peak	240	256

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

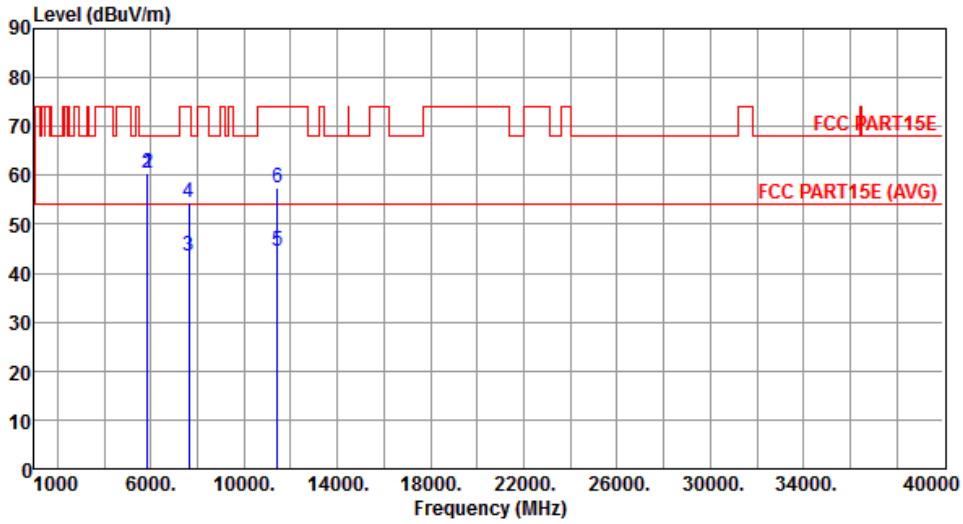
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.66	54.00	-1.34	45.83	6.83	Average	296	93
2	5725.00	67.17	74.00	-6.83	60.34	6.83	Peak	296	93
3	7560.00	52.95	54.00	-1.05	42.03	10.92	Average	269	80
4	7560.00	57.69	74.00	-16.31	46.77	10.92	Peak	269	80
5	11340.00	49.02	54.00	-4.98	33.09	15.93	Average	242	71
6	11340.00	61.56	74.00	-12.44	45.63	15.93	Peak	242	71

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

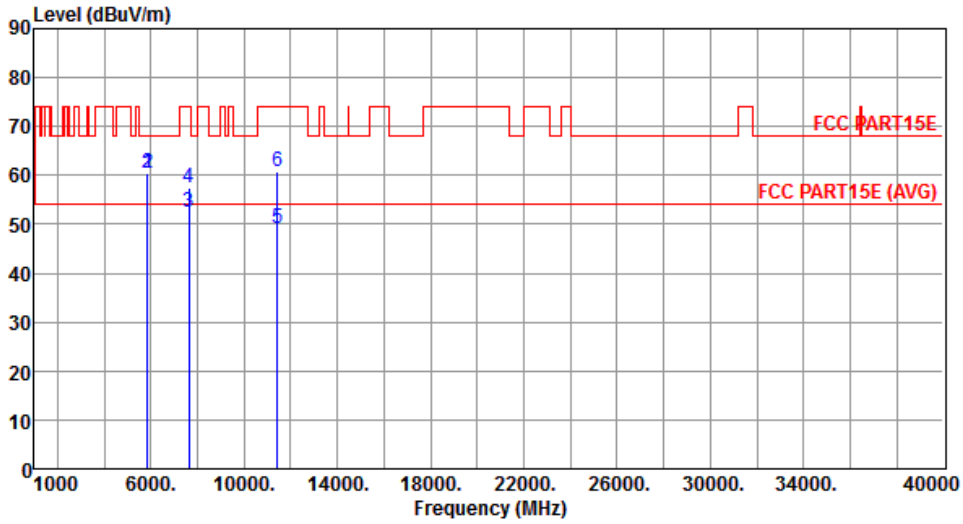
Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	60.47	68.20	-7.73	53.31	7.16	Peak	241	102
2	5860.00	60.43	68.20	-7.77	53.25	7.18	Peak	241	102
3	7613.33	43.34	54.00	-10.66	32.31	11.03	Average	240	238
4	7613.33	54.37	74.00	-19.63	43.34	11.03	Peak	240	238
5	11420.00	44.51	54.00	-9.49	28.53	15.98	Average	122	213
6	11420.00	57.34	74.00	-16.66	41.36	15.98	Peak	122	213

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

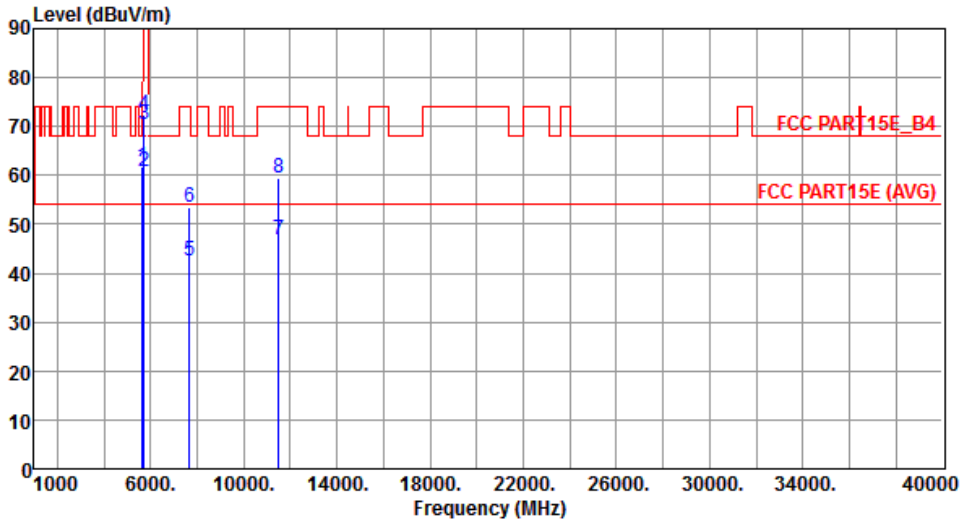
Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	60.33	68.20	-7.87	53.17	7.16	Peak	302	206
2	5860.00	60.43	68.20	-7.77	53.25	7.18	Peak	302	206
3	7613.33	52.42	54.00	-1.58	41.39	11.03	Average	289	65
4	7613.33	57.30	74.00	-16.70	46.27	11.03	Peak	289	65
5	11420.00	49.09	54.00	-4.91	33.11	15.98	Average	275	73
6	11420.00	60.85	74.00	-13.15	44.87	15.98	Peak	275	73

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

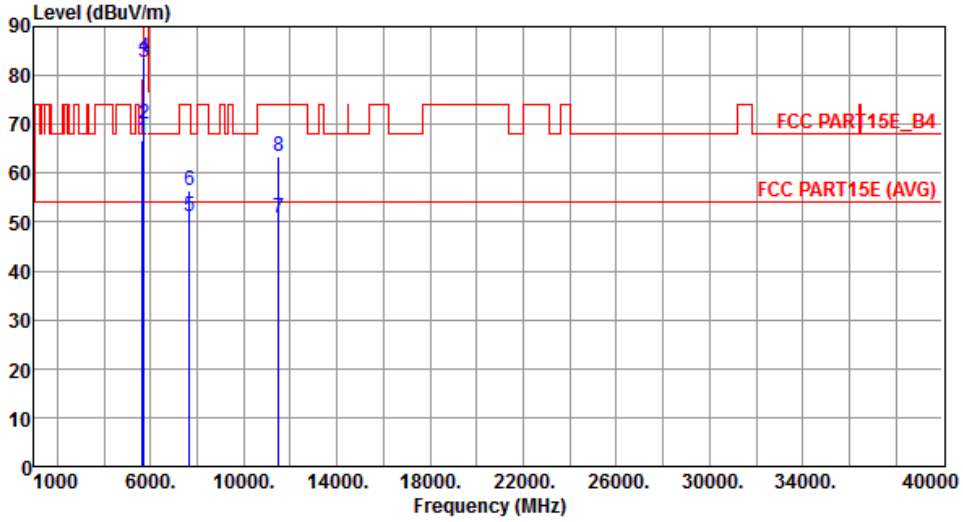
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.87	68.20	-6.33	55.24	6.63	Peak	250	277
2	5700.00	60.77	105.20	-44.43	54.00	6.77	Peak	250	277
3	5720.00	70.53	110.80	-40.27	63.71	6.82	Peak	250	277
4	5725.00	72.48	122.20	-49.72	65.65	6.83	Peak	250	277
5	7673.33	42.61	54.00	-11.39	31.59	11.02	Average	262	280
6	7673.33	53.36	74.00	-20.64	42.34	11.02	Peak	262	280
7	11510.00	46.80	54.00	-7.20	30.80	16.00	Average	243	344
8	11510.00	59.32	74.00	-14.68	43.32	16.00	Peak	243	344

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

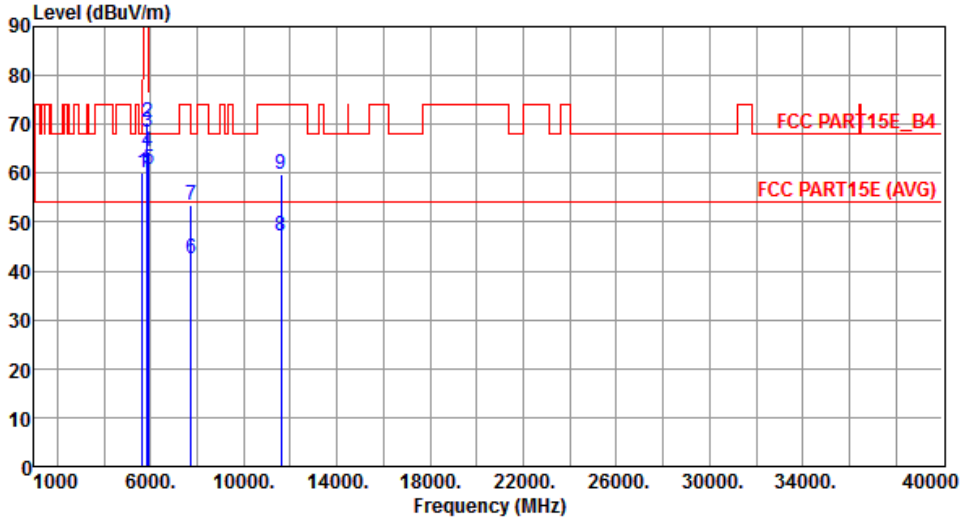
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.74	68.20	-1.46	60.11	6.63	Peak	288	243
2	5700.00	70.05	105.20	-35.15	63.28	6.77	Peak	288	243
3	5720.00	82.53	110.80	-28.27	75.71	6.82	Peak	288	243
4	5725.00	83.68	122.20	-38.52	76.85	6.83	Peak	288	243
5	7673.33	51.14	54.00	-2.86	40.12	11.02	Average	302	66
6	7673.33	56.56	74.00	-17.44	45.54	11.02	Peak	302	66
7	11510.00	50.68	54.00	-3.32	34.68	16.00	Average	241	72
8	11510.00	63.56	74.00	-10.44	47.56	16.00	Peak	241	72

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

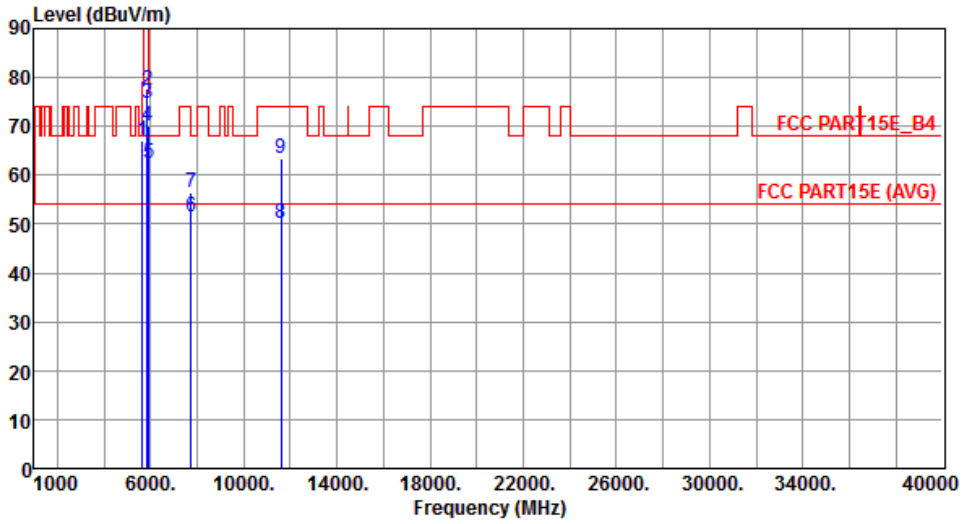
Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	60.02	68.20	-8.18	53.39	6.63	Peak	258	277
2	5850.00	70.43	122.20	-51.77	63.27	7.16	Peak	258	277
3	5855.00	68.53	110.80	-42.27	61.35	7.18	Peak	258	277
4	5875.00	64.42	105.20	-40.78	57.19	7.23	Peak	258	277
5	5925.00	60.72	68.20	-7.48	53.38	7.34	Peak	258	277
6	7726.66	42.34	54.00	-11.66	31.33	11.01	Average	280	282
7	7726.66	53.54	74.00	-20.46	42.53	11.01	Peak	280	282
8	11590.00	47.02	54.00	-6.98	31.17	15.85	Average	280	168
9	11590.00	59.83	74.00	-14.17	43.98	15.85	Peak	280	168

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

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

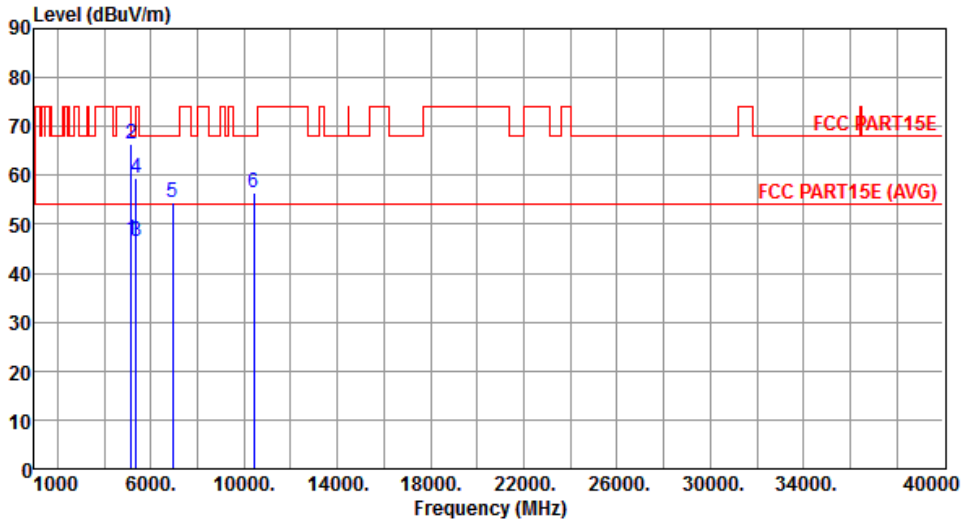


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	67.06	68.20	-1.14	60.43	6.63	Peak	250	324
2	5850.00	77.53	122.20	-44.67	70.37	7.16	Peak	250	324
3	5855.00	74.56	110.80	-36.24	67.38	7.18	Peak	250	324
4	5875.00	70.02	105.20	-35.18	62.79	7.23	Peak	250	324
5	5925.00	62.55	68.20	-5.65	55.21	7.34	Peak	250	324
6	7726.66	51.32	54.00	-2.68	40.31	11.01	Average	250	66
7	7726.66	56.39	74.00	-17.61	45.38	11.01	Peak	250	66
8	11590.00	50.18	54.00	-3.82	34.33	15.85	Average	250	72
9	11590.00	63.38	74.00	-10.62	47.53	15.85	Peak	250	72

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

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

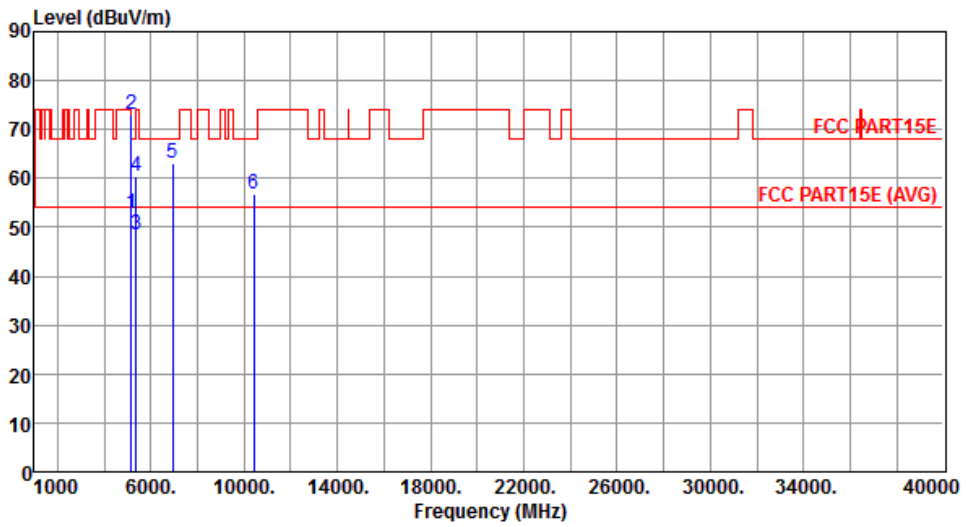
Modulation	VHT80	**Test Freq. (MHz)**	5210
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.72	54.00	-7.28	40.85	5.87	Average	308	276
2	5150.00	66.54	74.00	-7.46	60.67	5.87	Peak	308	276
3	5350.00	46.64	54.00	-7.36	40.43	6.21	Average	308	276
4	5350.00	59.43	74.00	-14.57	53.22	6.21	Peak	308	276
5	6946.66	54.58	68.20	-13.62	44.92	9.66	Peak	100	134
6	10420.00	56.32	68.20	-11.88	41.02	15.30	Peak	155	213

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

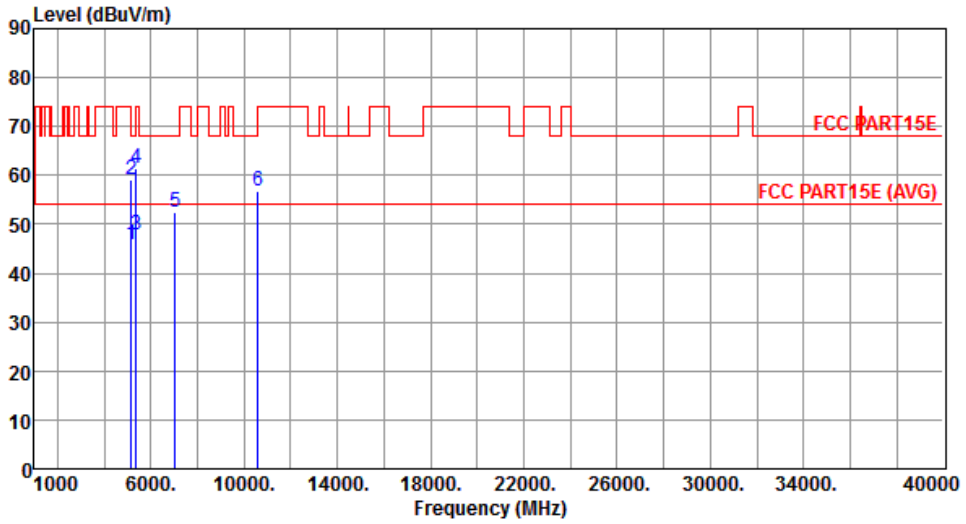
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	52.78	54.00	-1.22	46.91	5.87	Average	338	226
2	5150.00	73.00	74.00	-1.00	67.13	5.87	Peak	338	226
3	5350.00	48.50	54.00	-5.50	42.29	6.21	Average	338	226
4	5350.00	60.57	74.00	-13.43	54.36	6.21	Peak	338	226
5	6946.66	63.04	68.20	-5.16	53.38	9.66	Peak	284	65
6	10420.00	56.63	68.20	-11.57	41.33	15.30	Peak	284	65

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

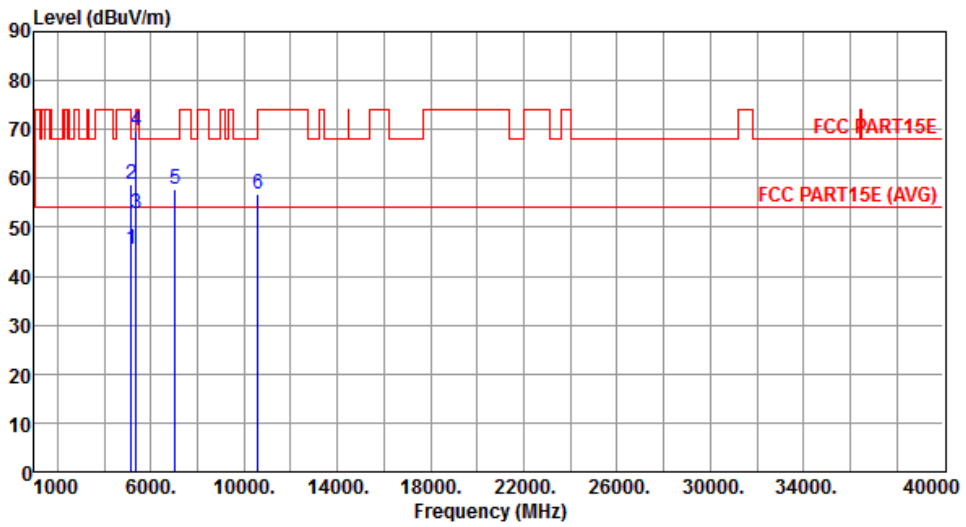
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		



	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	45.72	54.00	-8.28	39.85	5.87	Average	282	68
2	5150.00	59.02	74.00	-14.98	53.15	5.87	Peak	282	68
3	5350.00	47.77	54.00	-6.23	41.56	6.21	Average	282	68
4	5350.00	61.33	74.00	-12.67	55.12	6.21	Peak	282	68
5	7053.33	52.46	68.20	-15.74	42.61	9.85	Peak	183	282
6	10580.00	56.76	68.20	-11.44	41.32	15.44	Peak	155	168

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

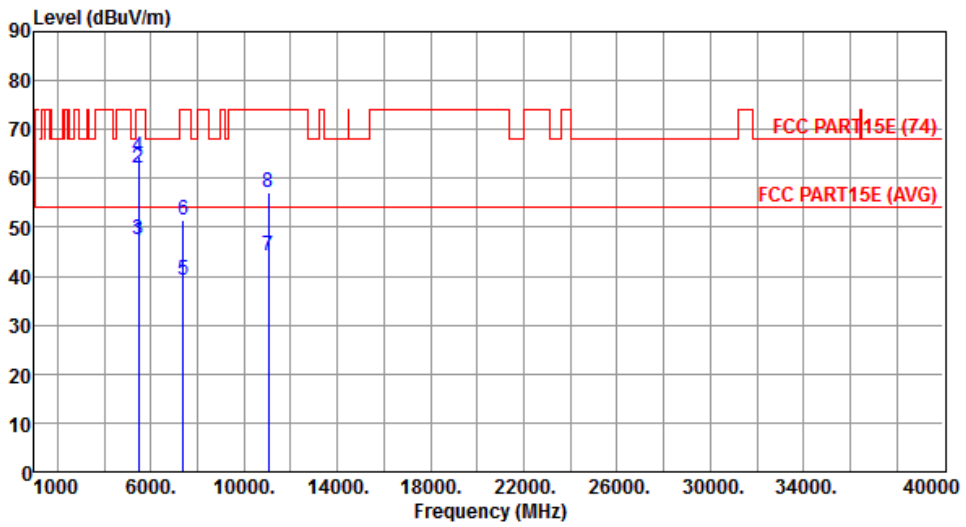
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.46	54.00	-8.54	39.59	5.87	Average	304	222
2	5150.00	58.90	74.00	-15.10	53.03	5.87	Peak	304	222
3	5350.00	52.81	54.00	-1.19	46.60	6.21	Average	304	222
4	5350.00	69.64	74.00	-4.36	63.43	6.21	Peak	304	222
5	7053.33	57.72	68.20	-10.48	47.87	9.85	Peak	282	65
6	10580.00	56.82	68.20	-11.38	41.38	15.44	Peak	152	216

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

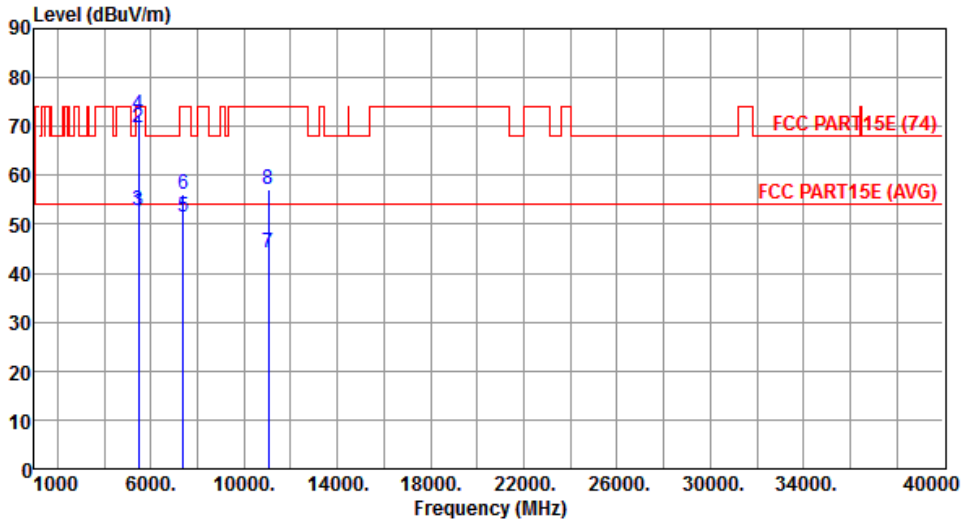
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		



	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	47.30	54.00	-6.70	40.94	6.36	Average	282	280
2	5460.00	62.18	74.00	-11.82	55.82	6.36	Peak	282	280
3	5470.00	47.59	54.00	-6.41	41.22	6.37	Average	282	280
4	5470.00	64.43	74.00	-9.57	58.06	6.37	Peak	282	280
5	7373.33	39.20	54.00	-14.80	28.83	10.37	Average	215	91
6	7373.33	51.61	74.00	-22.39	41.24	10.37	Peak	215	91
7	11060.00	44.22	54.00	-9.78	28.45	15.77	Average	135	222
8	11060.00	57.14	74.00	-16.86	41.37	15.77	Peak	135	222

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

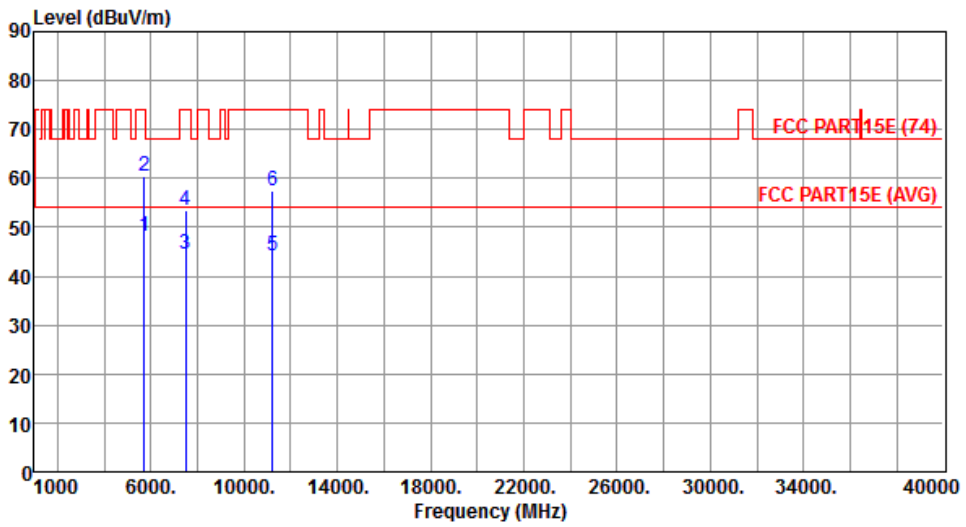
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		



	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	52.53	54.00	-1.47	46.17	6.36	Average	291	239
2	5460.00	69.77	74.00	-4.23	63.41	6.36	Peak	291	239
3	5470.00	52.81	54.00	-1.19	46.44	6.37	Average	291	239
4	5470.00	72.32	74.00	-1.68	65.95	6.37	Peak	291	239
5	7373.33	51.63	54.00	-2.37	41.26	10.37	Average	281	64
6	7373.33	56.02	74.00	-17.98	45.65	10.37	Peak	281	64
7	11060.00	44.30	54.00	-9.70	28.53	15.77	Average	164	218
8	11060.00	57.15	74.00	-16.85	41.38	15.77	Peak	164	218

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

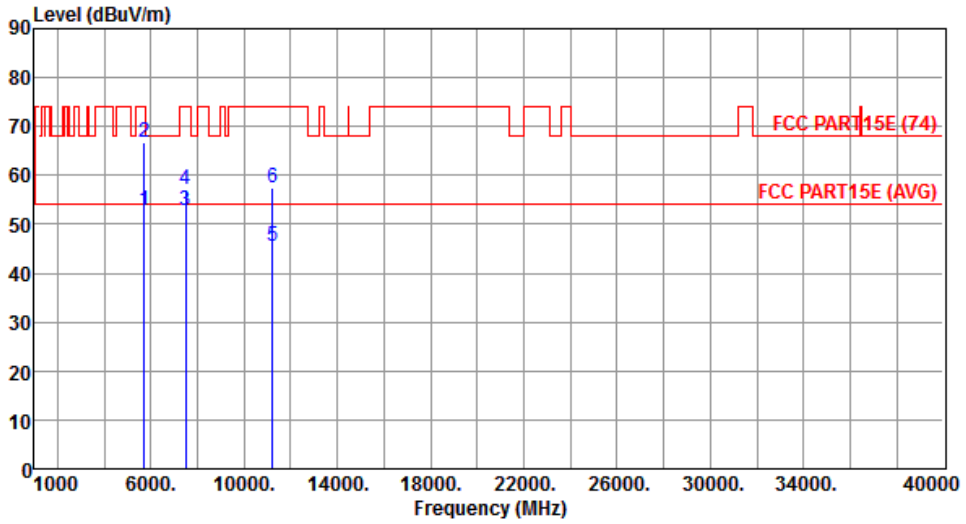
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	48.03	54.00	-5.97	41.20	6.83	Average	280	274
2	5725.00	60.60	74.00	-13.40	53.77	6.83	Peak	280	274
3	7480.00	44.54	54.00	-9.46	33.84	10.70	Average	240	277
4	7480.00	53.59	74.00	-20.41	42.89	10.70	Peak	240	277
5	11220.00	44.09	54.00	-9.91	28.23	15.86	Average	156	213
6	11220.00	57.31	74.00	-16.69	41.45	15.86	Peak	156	213

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

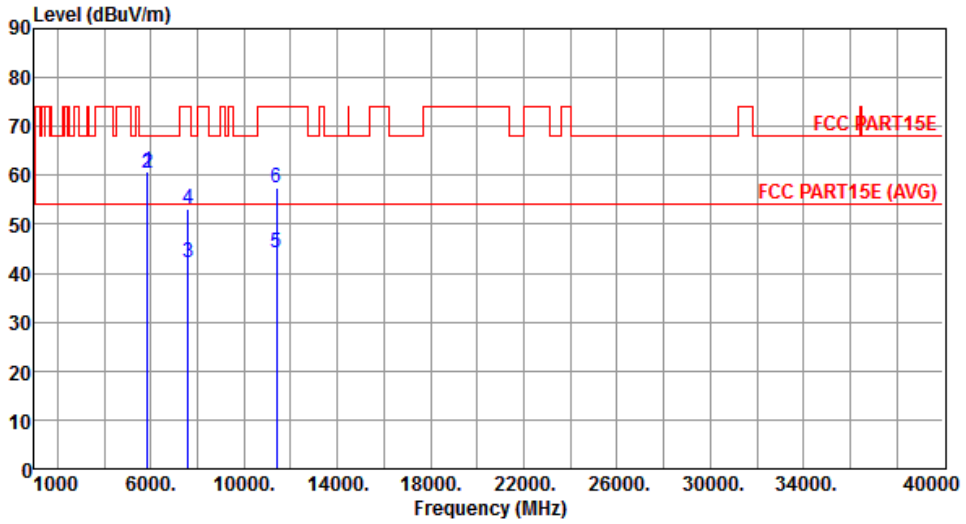
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.96	54.00	-1.04	46.13	6.83	Average	295	229
2	5725.00	66.79	74.00	-7.21	59.96	6.83	Peak	295	229
3	7480.00	52.77	54.00	-1.23	42.07	10.70	Average	296	69
4	7480.00	57.29	74.00	-16.71	46.59	10.70	Peak	296	69
5	11220.00	45.48	54.00	-8.52	29.62	15.86	Average	240	77
6	11220.00	57.47	74.00	-16.53	41.61	15.86	Peak	240	77

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

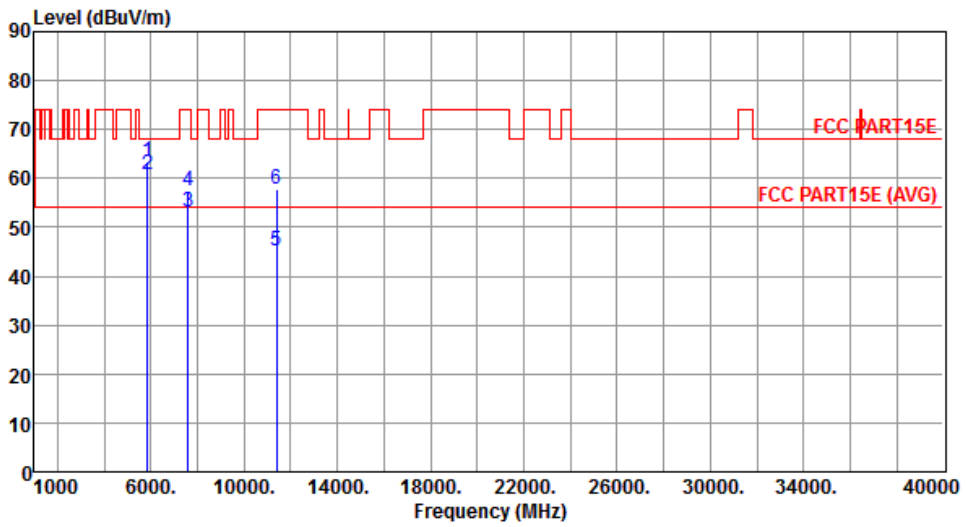
Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	60.72	68.20	-7.48	53.56	7.16	Peak	265	101
2	5860.00	60.46	68.20	-7.74	53.28	7.18	Peak	265	101
3	7586.66	42.23	54.00	-11.77	31.24	10.99	Average	211	281
4	7586.66	53.24	74.00	-20.76	42.25	10.99	Peak	211	281
5	11380.00	44.16	54.00	-9.84	28.21	15.95	Average	165	128
6	11380.00	57.33	74.00	-16.67	41.38	15.95	Peak	165	128

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

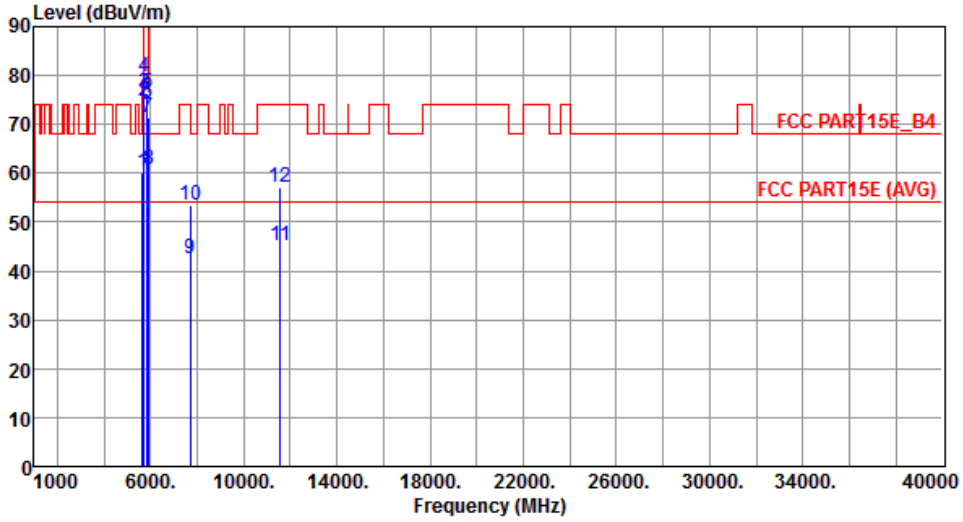
Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	63.35	68.20	-4.85	56.19	7.16	Peak	293	206
2	5860.00	60.67	68.20	-7.53	53.49	7.18	Peak	293	206
3	7586.66	52.99	54.00	-1.01	42.00	10.99	Average	270	73
4	7586.66	57.39	74.00	-16.61	46.40	10.99	Peak	270	73
5	11380.00	45.03	54.00	-8.97	29.08	15.95	Average	246	63
6	11380.00	57.79	74.00	-16.21	41.84	15.95	Peak	246	63

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

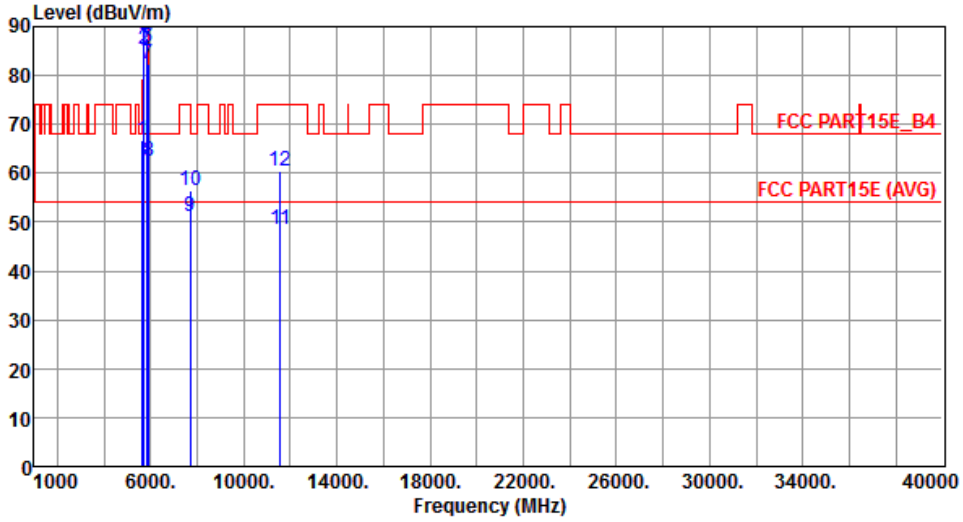
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.96	68.20	-8.24	53.33	6.63	Peak	260	277
2	5700.00	74.56	105.20	-30.64	67.79	6.77	Peak	260	277
3	5720.00	76.48	110.80	-34.32	69.66	6.82	Peak	260	277
4	5725.00	79.62	122.20	-42.58	72.79	6.83	Peak	260	277
5	5850.00	76.33	122.20	-45.87	69.17	7.16	Peak	260	277
6	5855.00	74.42	110.80	-36.38	67.24	7.18	Peak	260	277
7	5875.00	71.31	105.20	-33.89	64.08	7.23	Peak	260	277
8	5925.00	60.67	68.20	-7.53	53.33	7.34	Peak	260	277
9	7700.00	42.37	54.00	-11.63	31.36	11.01	Average	224	216
10	7700.00	53.55	74.00	-20.45	42.54	11.01	Peak	224	216
11	11550.00	45.17	54.00	-8.83	29.24	15.93	Average	155	242
12	11550.00	57.14	74.00	-16.86	41.21	15.93	Peak	155	242

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

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



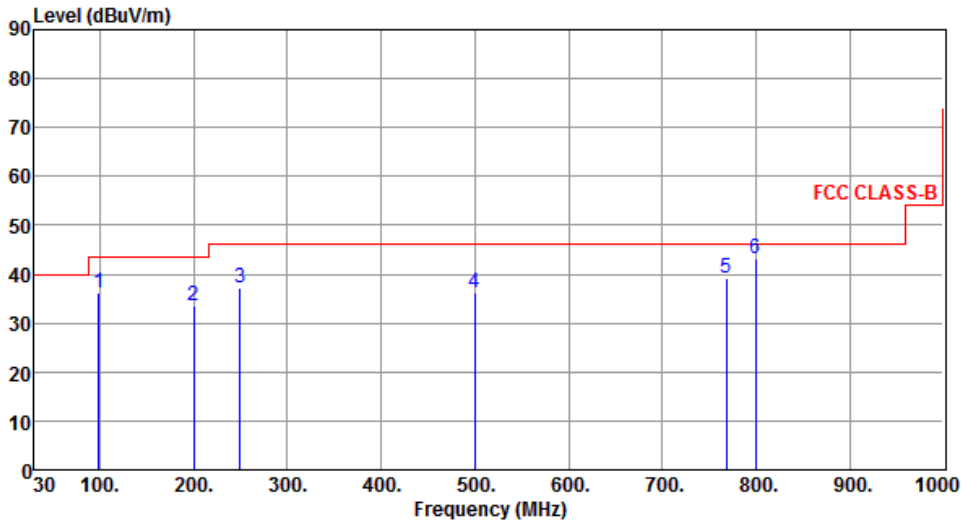
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.84	68.20	-1.36	60.21	6.63	Peak	280	243
2	5700.00	85.40	105.20	-19.80	78.63	6.77	Peak	280	243
3	5720.00	88.35	110.80	-22.45	81.53	6.82	Peak	280	243
4	5725.00	90.28	122.20	-31.92	83.45	6.83	Peak	280	243
5	5850.00	87.58	122.20	-34.62	80.42	7.16	Peak	280	243
6	5855.00	85.80	110.80	-25.00	78.62	7.18	Peak	280	243
7	5875.00	82.34	105.20	-22.86	75.11	7.23	Peak	280	243
8	5925.00	62.47	68.20	-5.73	55.13	7.34	Peak	280	243
9	7700.00	51.14	54.00	-2.86	40.13	11.01	Average	240	66
10	7700.00	56.33	74.00	-17.67	45.32	11.01	Peak	240	66
11	11550.00	48.46	54.00	-5.54	32.53	15.93	Average	255	72
12	11550.00	60.31	74.00	-13.69	44.38	15.93	Peak	255	72

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

Beamforming mode

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

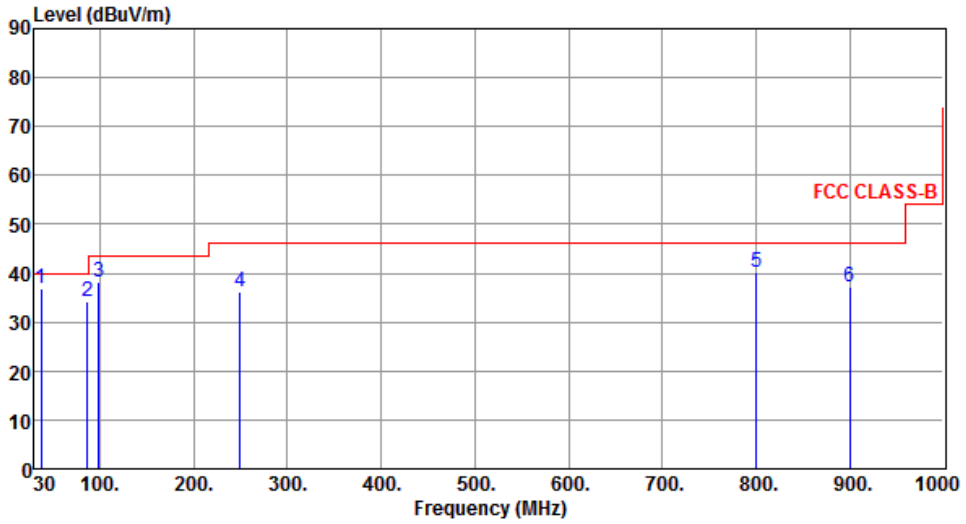
Modulation	VHT40	**Test Freq. (MHz)**	5670
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	98.87	36.20	43.50	-7.30	49.86	-13.66	Peak	---	---
2	199.75	33.56	43.50	-9.94	44.88	-11.32	Peak	---	---
3	249.22	37.05	46.00	-8.95	46.68	-9.63	Peak	---	---
4	499.48	36.34	46.00	-9.66	39.49	-3.15	Peak	---	---
5	768.17	39.23	46.00	-6.77	37.04	2.19	Peak	---	---
6	799.98	43.20	46.00	-2.80	40.53	2.67	QP	100	291

Note 1: Emission Level (dBuV/m) = SA Reading (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.

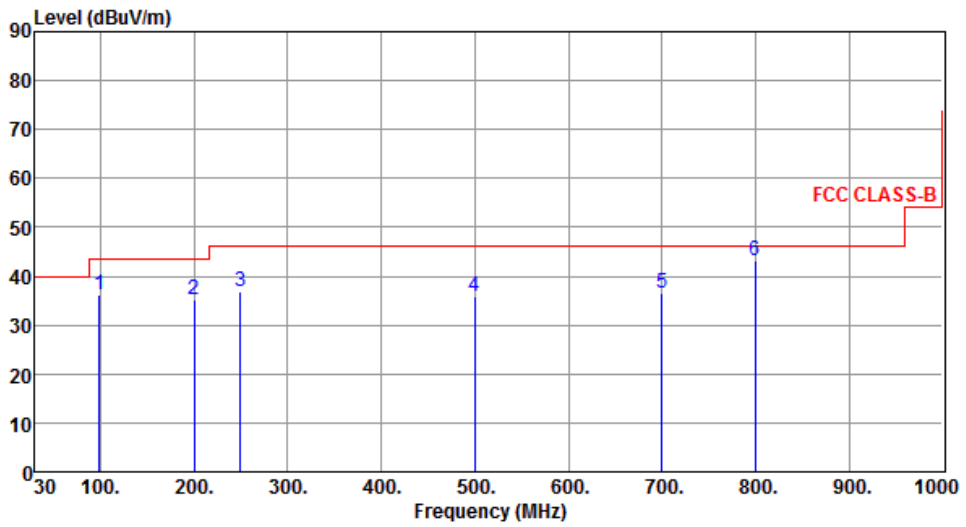
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	36.85	36.85	40.00	-3.15	45.90	-9.05	QP	100	58
2	86.52	34.17	40.00	-5.83	48.31	-14.14	QP	100	148
3	98.87	38.05	43.50	-5.45	51.71	-13.66	Peak	---	---
4	249.22	36.22	46.00	-9.78	45.85	-9.63	Peak	---	---
5	800.18	40.17	46.00	-5.83	37.50	2.67	Peak	---	---
6	900.09	37.35	46.00	-8.65	33.06	4.29	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).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

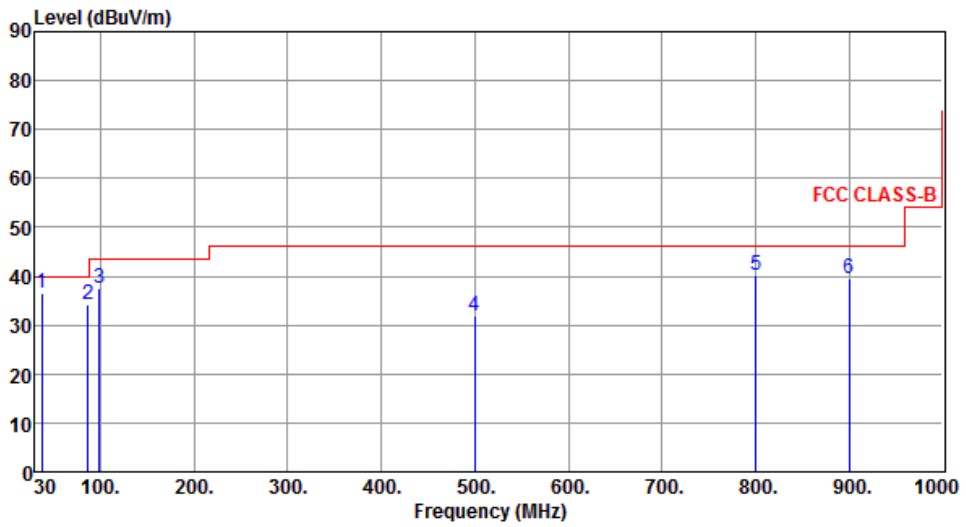
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	98.87	36.36	43.50	-7.14	50.02	-13.66	Peak	---	---
2	199.75	35.09	43.50	-8.41	46.41	-11.32	Peak	---	---
3	249.22	36.75	46.00	-9.25	46.38	-9.63	Peak	---	---
4	499.48	35.79	46.00	-10.21	38.94	-3.15	Peak	---	---
5	700.27	36.52	46.00	-9.48	35.96	0.56	Peak	---	---
6	799.98	43.17	46.00	-2.83	40.50	2.67	QP	100	291

Note 1: Emission Level (dBuV/m) = SA Reading (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)	5755
Polarization	Vertical		

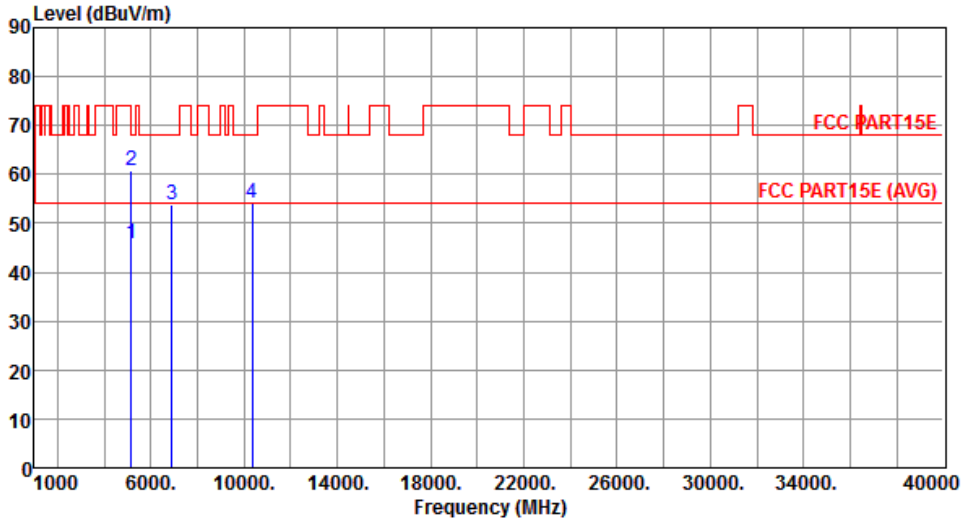


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	36.85	36.47	40.00	-3.53	45.52	-9.05	QP	100	56
2	86.26	34.14	40.00	-5.86	48.24	-14.10	QP	100	155
3	98.87	37.57	43.50	-5.93	51.23	-13.66	Peak	---	---
4	499.48	31.75	46.00	-14.25	34.90	-3.15	Peak	---	---
5	800.18	40.17	46.00	-5.83	37.50	2.67	Peak	---	---
6	900.09	39.63	46.00	-6.37	35.34	4.29	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).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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

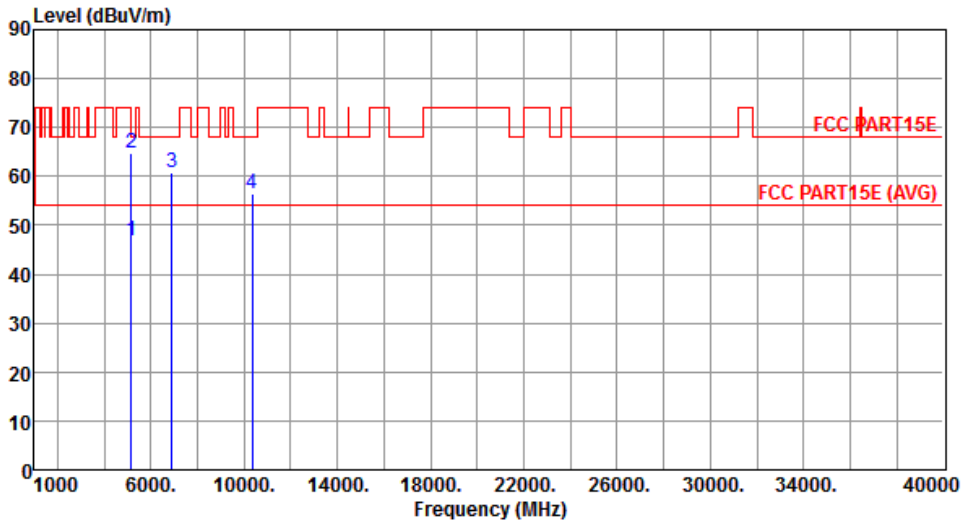
Modulation	VHT20	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.98	54.00	-8.02	40.96	5.02	Average	160	108
2	5150.00	60.66	74.00	-13.34	55.64	5.02	Peak	160	108
3	6906.66	53.90	68.20	-14.30	45.65	8.25	Peak	106	95
4	10360.00	54.28	68.20	-13.92	40.54	13.74	Peak	100	168

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

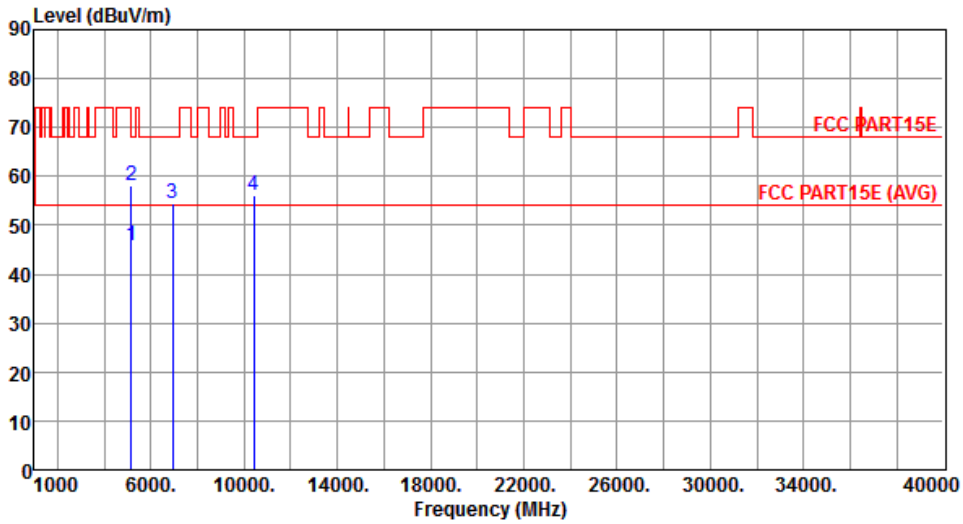
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.81	54.00	-7.19	41.79	5.02	Average	240	96
2	5150.00	64.75	74.00	-9.25	59.73	5.02	Peak	240	96
3	6906.66	60.64	68.20	-7.56	52.39	8.25	Peak	263	227
4	10360.00	56.43	68.20	-11.77	42.69	13.74	Peak	100	196

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

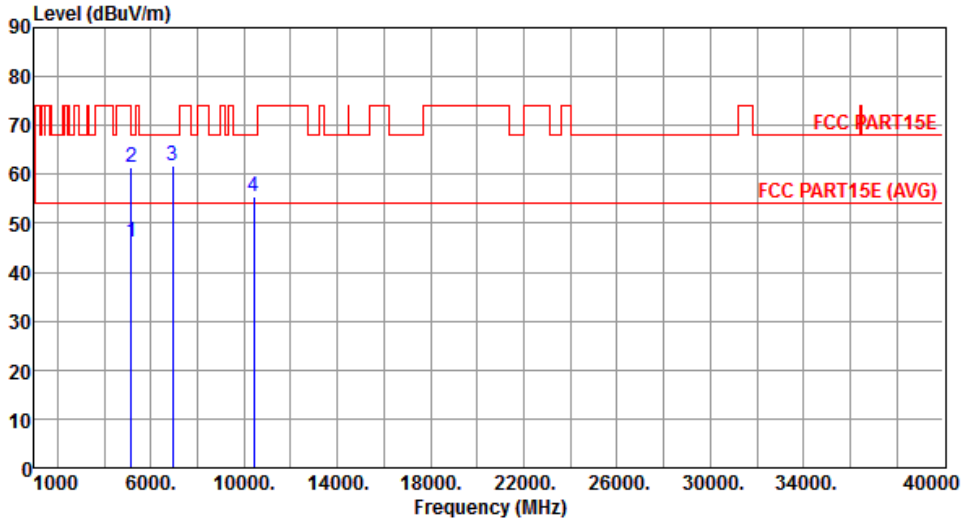
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.67	54.00	-8.33	40.65	5.02	Average	158	110
2	5150.00	58.22	74.00	-15.78	53.20	5.02	Peak	158	110
3	6933.33	54.49	68.20	-13.71	46.25	8.24	Peak	105	100
4	10400.00	56.25	68.20	-11.95	42.48	13.77	Peak	100	165

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

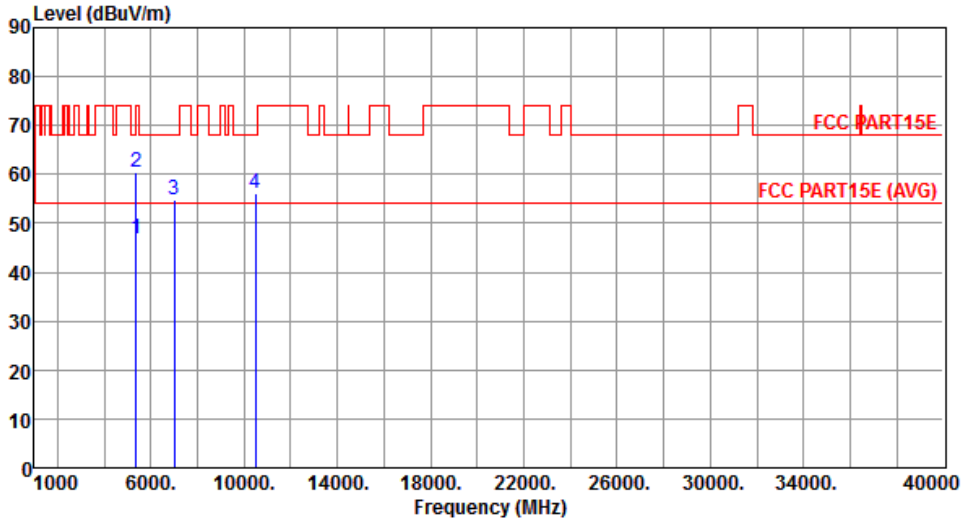
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.28	54.00	-7.72	41.26	5.02	Average	240	95
2	5150.00	61.37	74.00	-12.63	56.35	5.02	Peak	240	95
3	6933.33	61.66	68.20	-6.54	53.42	8.24	Peak	262	225
4	10400.00	55.30	68.20	-12.90	41.53	13.77	Peak	100	192

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

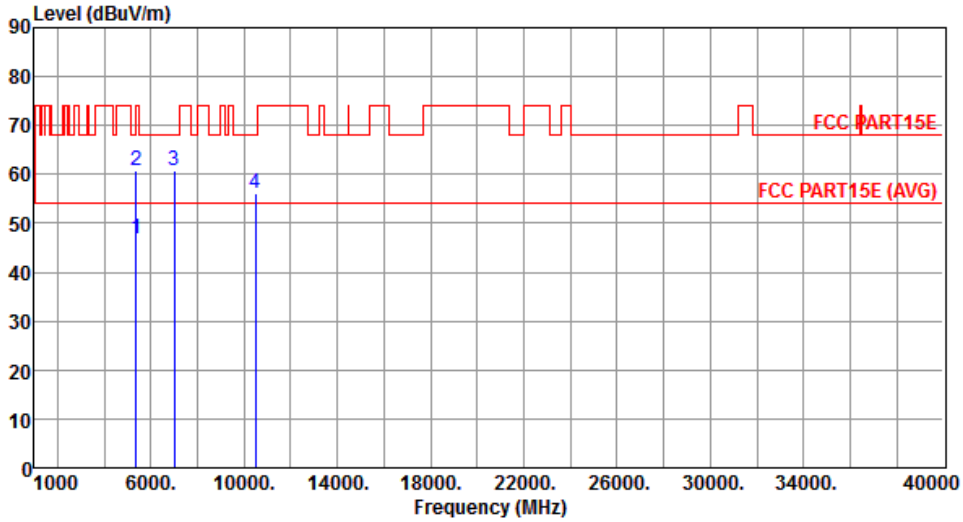
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.76	54.00	-7.24	41.45	5.31	Average	155	110
2	5350.00	60.52	74.00	-13.48	55.21	5.31	Peak	155	110
3	6986.66	54.79	68.20	-13.41	46.57	8.22	Peak	105	96
4	10480.00	56.19	68.20	-12.01	42.38	13.81	Peak	100	167

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

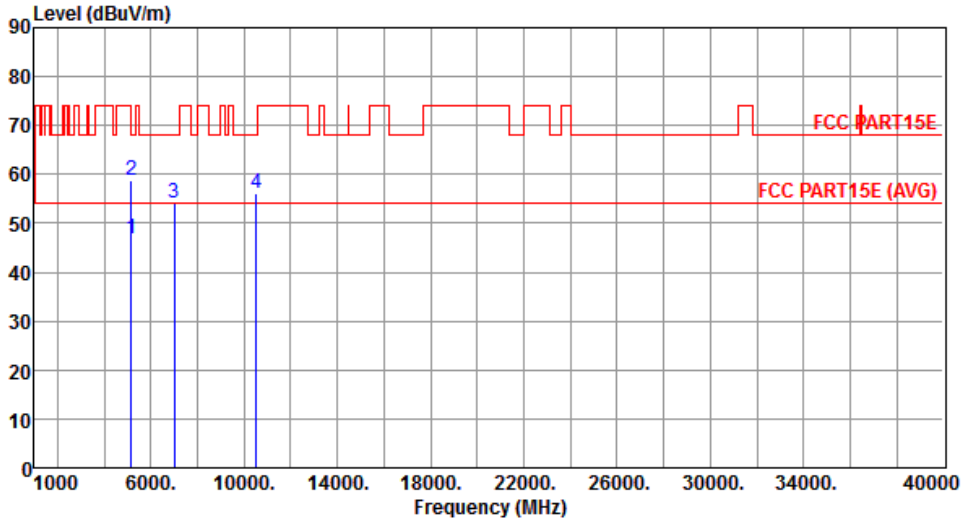
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.99	54.00	-7.01	41.68	5.31	Average	239	97
2	5350.00	60.84	74.00	-13.16	55.53	5.31	Peak	239	97
3	6986.66	60.77	68.20	-7.43	52.55	8.22	Peak	262	226
4	10480.00	56.29	68.20	-11.91	42.48	13.81	Peak	100	194

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

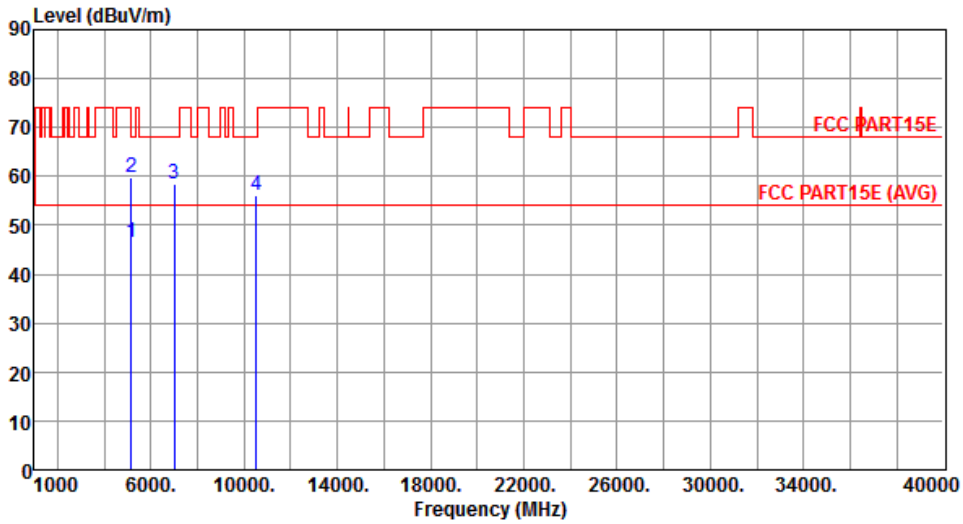
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.70	54.00	-7.30	41.68	5.02	Average	152	138
2	5150.00	58.70	74.00	-15.30	53.68	5.02	Peak	152	138
3	7013.33	53.98	68.20	-14.22	45.73	8.25	Peak	105	95
4	10520.00	56.18	68.20	-12.02	42.34	13.84	Peak	100	164

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

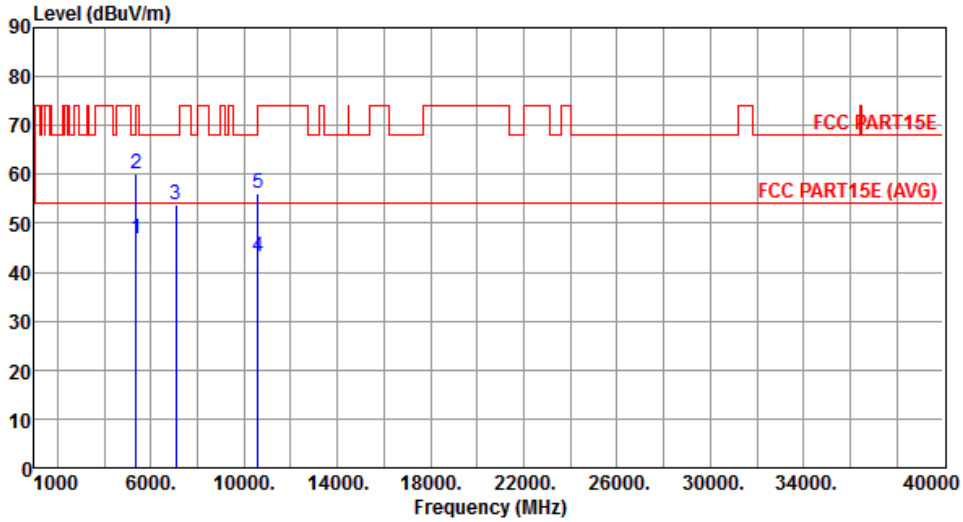
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.64	54.00	-7.36	41.62	5.02	Average	195	221
2	5150.00	59.65	74.00	-14.35	54.63	5.02	Peak	195	221
3	7013.33	58.59	68.20	-9.61	50.34	8.25	Peak	224	62
4	10520.00	56.26	68.20	-11.94	42.42	13.84	Peak	100	182

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

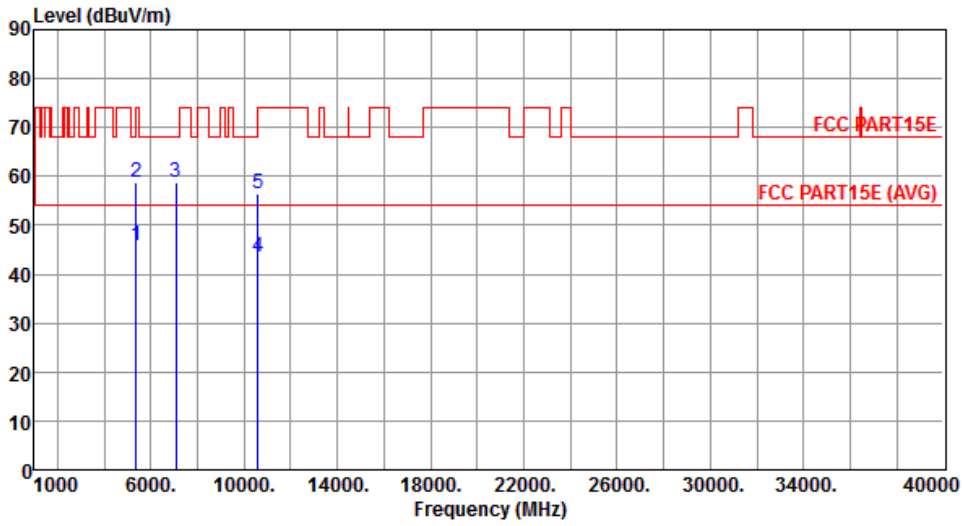
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.84	54.00	-7.16	41.53	5.31	Average	152	102
2	5350.00	59.99	74.00	-14.01	54.68	5.31	Peak	152	102
3	7066.66	53.74	68.20	-14.46	45.35	8.39	Peak	105	89
4	10600.00	43.30	54.00	-10.70	29.38	13.92	Average	105	162
5	10600.00	56.16	74.00	-17.84	42.24	13.92	Peak	105	162

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

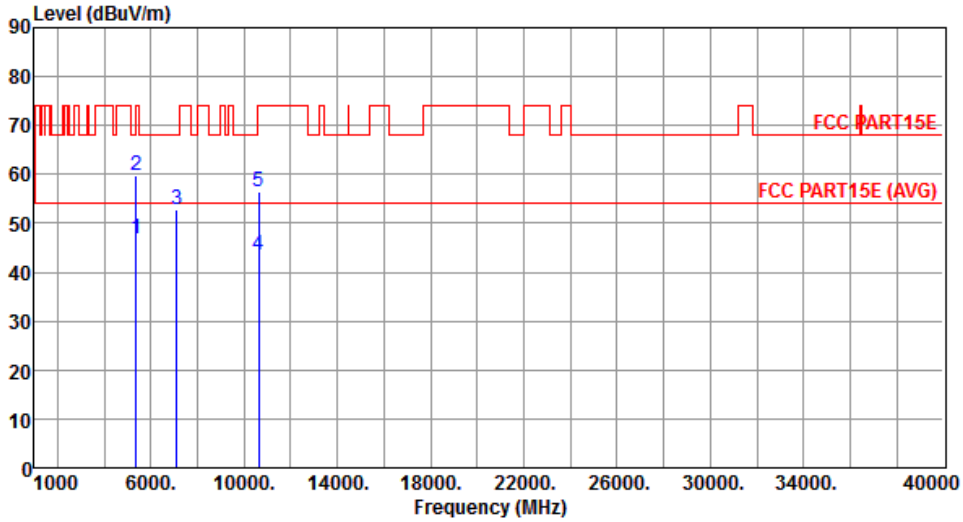
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.84	54.00	-8.16	40.53	5.31	Average	195	219
2	5350.00	58.79	74.00	-15.21	53.48	5.31	Peak	195	219
3	7066.66	58.66	68.20	-9.54	50.27	8.39	Peak	225	69
4	10600.00	43.45	54.00	-10.55	29.53	13.92	Average	132	138
5	10600.00	56.39	74.00	-17.61	42.47	13.92	Peak	132	138

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

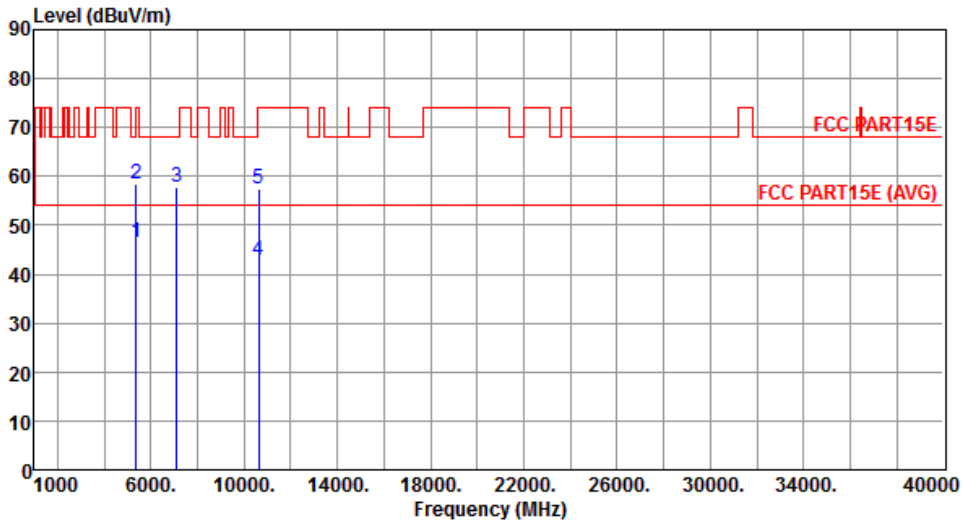
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.95	54.00	-7.05	41.64	5.31	Average	155	103
2	5350.00	59.63	74.00	-14.37	54.32	5.31	Peak	155	103
3	7093.33	52.92	68.20	-15.28	44.46	8.46	Peak	106	88
4	10640.00	43.48	54.00	-10.52	29.52	13.96	Average	100	165
5	10640.00	56.33	74.00	-17.67	42.37	13.96	Peak	100	165

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

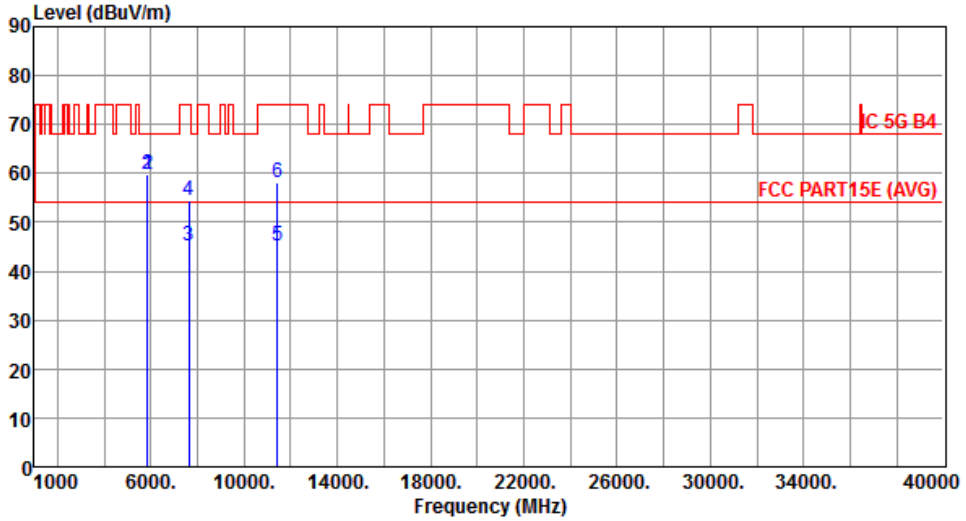
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.63	54.00	-7.37	41.32	5.31	Average	198	220
2	5350.00	58.39	74.00	-15.61	53.08	5.31	Peak	198	220
3	7093.33	57.88	68.20	-10.32	49.42	8.46	Peak	225	67
4	10640.00	42.77	54.00	-11.23	28.81	13.96	Average	135	145
5	10640.00	57.33	74.00	-16.67	43.37	13.96	Peak	135	145

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

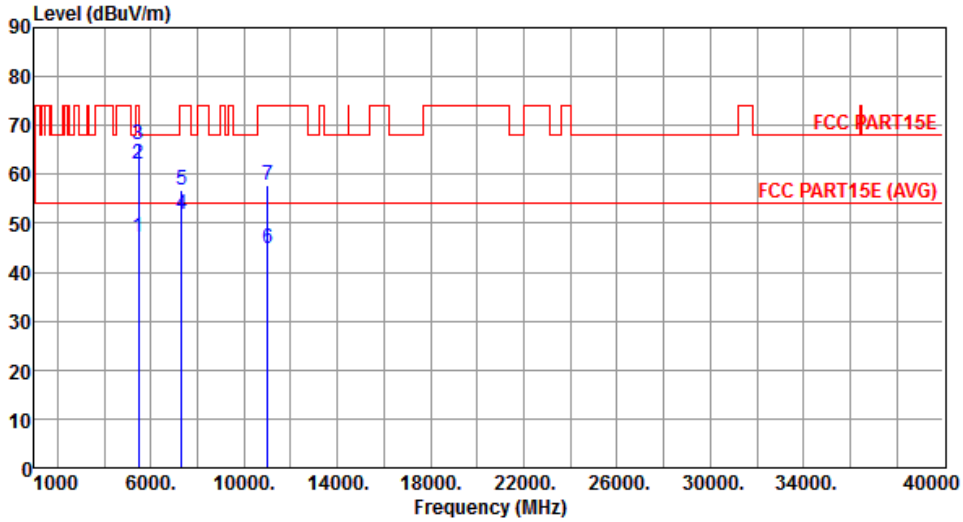
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	59.62	78.20	-18.58	53.63	5.99	Peak	215	102
2	5860.00	59.69	68.20	-8.51	53.68	6.01	Peak	215	102
3	7626.66	45.07	54.00	-8.93	35.41	9.66	Average	242	270
4	7626.66	54.38	74.00	-19.62	44.72	9.66	Peak	242	270
5	11440.00	45.22	54.00	-8.78	30.53	14.69	Average	100	153
6	11440.00	58.13	74.00	-15.87	43.44	14.69	Peak	100	153

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

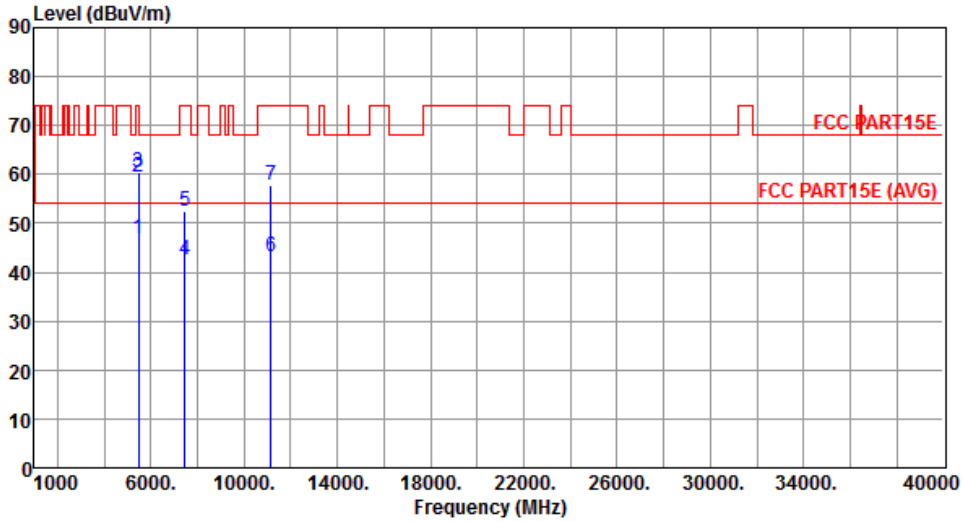
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	47.10	54.00	-6.90	41.64	5.46	Average	218	7
2	5460.00	61.99	74.00	-12.01	56.53	5.46	Peak	218	7
3	5470.00	65.98	68.20	-2.22	60.51	5.47	Peak	218	7
4	7333.33	51.80	54.00	-2.20	42.59	9.21	Average	218	69
5	7333.33	56.77	74.00	-17.23	47.56	9.21	Peak	218	69
6	11000.00	44.95	54.00	-9.05	30.65	14.30	Average	100	138
7	11000.00	57.83	74.00	-16.17	43.53	14.30	Peak	100	138

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

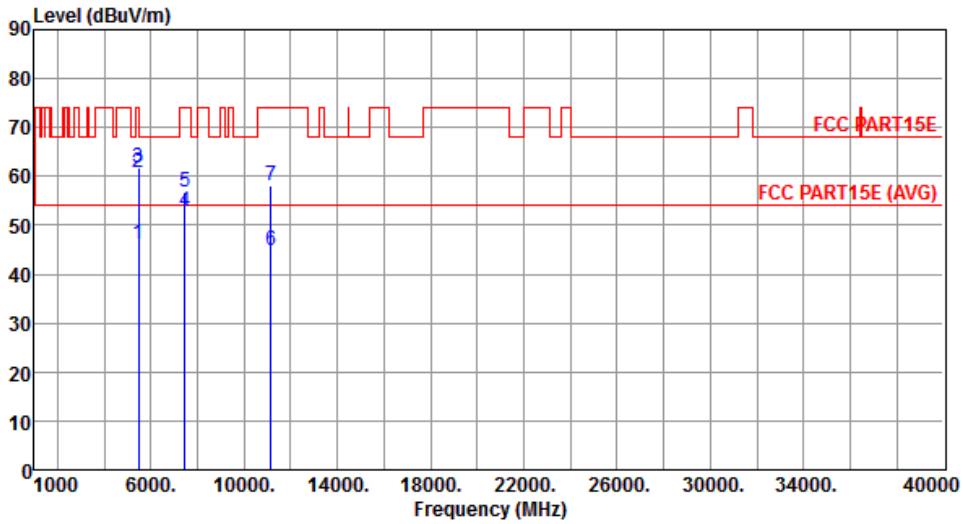
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.72	54.00	-7.28	41.26	5.46	Average	160	102
2	5460.00	59.42	74.00	-14.58	53.96	5.46	Peak	160	102
3	5470.00	60.59	68.20	-7.61	55.12	5.47	Peak	160	102
4	7440.00	42.46	54.00	-11.54	32.96	9.50	Average	100	170
5	7440.00	52.62	74.00	-21.38	43.12	9.50	Peak	100	170
6	11160.00	43.12	54.00	-10.88	28.68	14.44	Average	100	163
7	11160.00	57.85	74.00	-16.15	43.41	14.44	Peak	100	163

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

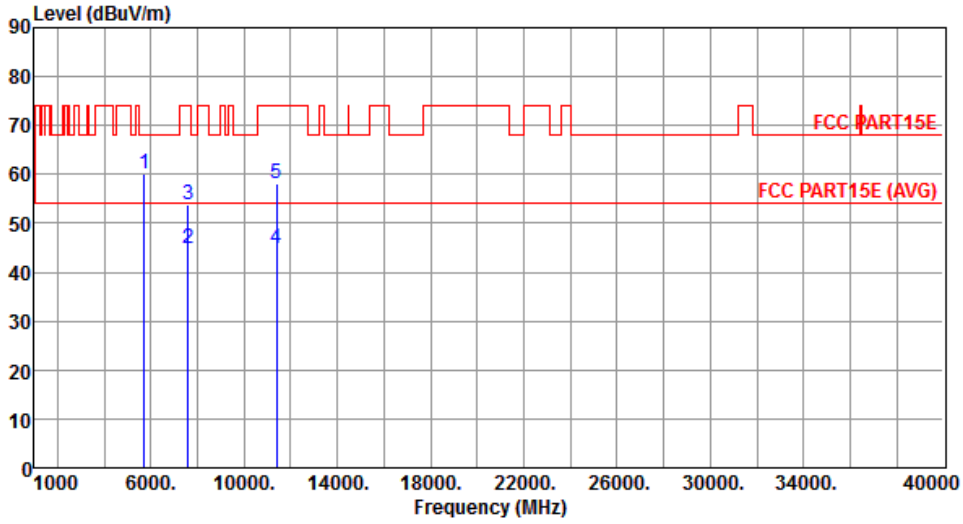
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.02	54.00	-7.98	40.56	5.46	Average	215	6
2	5460.00	60.79	74.00	-13.21	55.33	5.46	Peak	215	6
3	5470.00	61.90	68.20	-6.30	56.43	5.47	Peak	215	6
4	7440.00	52.76	54.00	-1.24	43.26	9.50	Average	100	310
5	7440.00	56.92	74.00	-17.08	47.42	9.50	Peak	100	310
6	11160.00	44.90	54.00	-9.10	30.46	14.44	Average	100	144
7	11160.00	57.97	74.00	-16.03	43.53	14.44	Peak	100	144

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

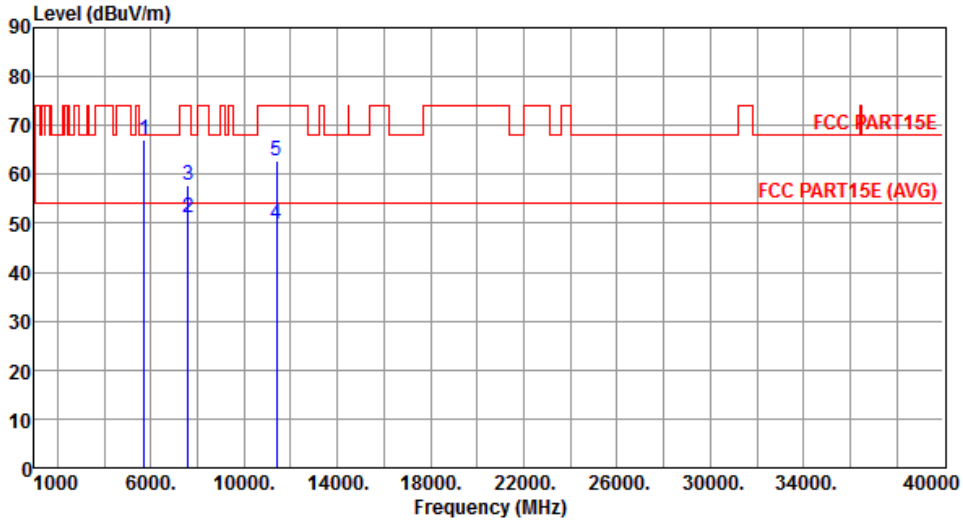
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	60.25	68.20	-7.95	54.44	5.81	Peak	217	100
2	7600.00	44.71	54.00	-9.29	35.06	9.65	Average	244	271
3	7600.00	53.73	74.00	-20.27	44.08	9.65	Peak	244	271
4	11400.00	44.93	54.00	-9.07	30.28	14.65	Average	100	156
5	11400.00	57.99	74.00	-16.01	43.34	14.65	Peak	100	156

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

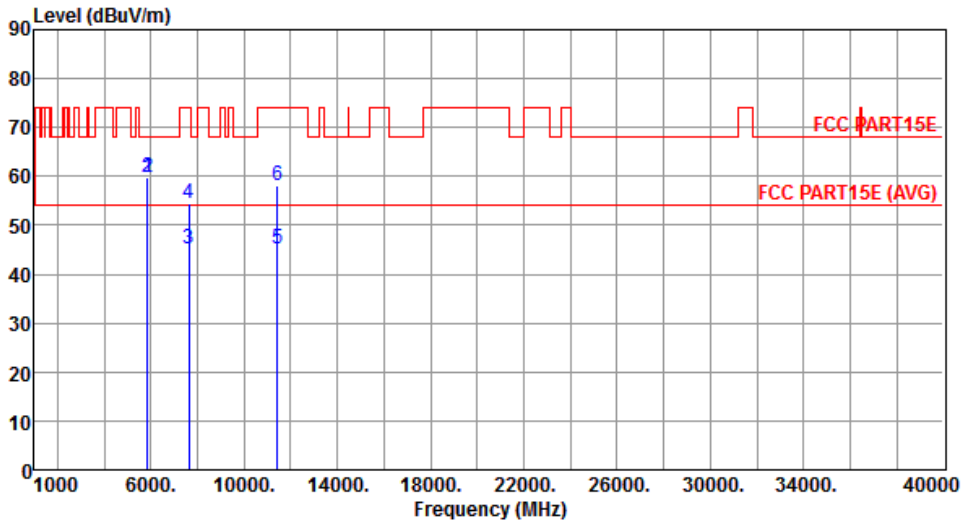
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	67.02	68.20	-1.18	61.21	5.81	Peak	289	6
2	7600.00	51.03	54.00	-2.97	41.38	9.65	Average	226	160
3	7600.00	57.90	74.00	-16.10	48.25	9.65	Peak	226	160
4	11400.00	49.78	54.00	-4.22	35.13	14.65	Average	100	168
5	11400.00	62.90	74.00	-11.10	48.25	14.65	Peak	100	168

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

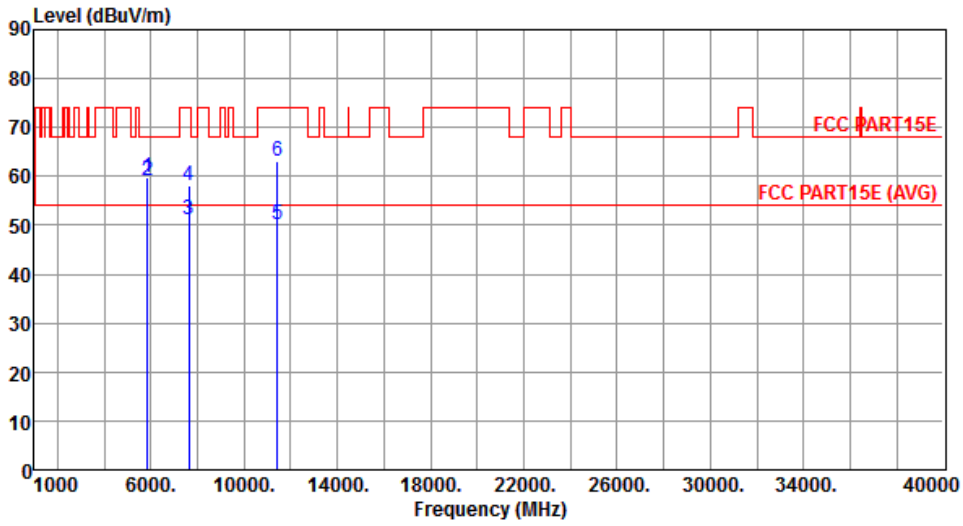
Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Horizontal		



	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	59.62	68.20	-8.58	53.63	5.99	Peak	215	102
2	5860.00	59.69	68.20	-8.51	53.68	6.01	Peak	215	102
3	7626.66	45.07	54.00	-8.93	35.41	9.66	Average	242	270
4	7626.66	54.38	74.00	-19.62	44.72	9.66	Peak	242	270
5	11440.00	45.22	54.00	-8.78	30.53	14.69	Average	100	153
6	11440.00	58.13	74.00	-15.87	43.44	14.69	Peak	100	153

Note 1: Emission Level (dBuV/m) = SA Reading (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		

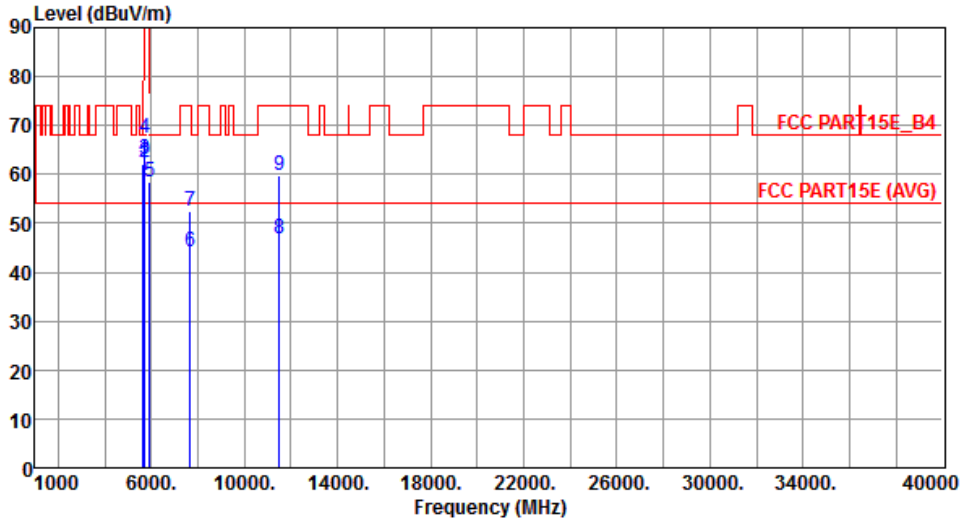


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	59.67	68.20	-8.53	53.68	5.99	Peak	290	5
2	5860.00	59.22	68.20	-8.98	53.21	6.01	Peak	290	5
3	7626.66	51.19	54.00	-2.81	41.53	9.66	Average	225	158
4	7626.66	57.99	74.00	-16.01	48.33	9.66	Peak	225	158
5	11440.00	50.00	54.00	-4.00	35.31	14.69	Average	100	165
6	11440.00	63.22	74.00	-10.78	48.53	14.69	Peak	100	165

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

3.5.11

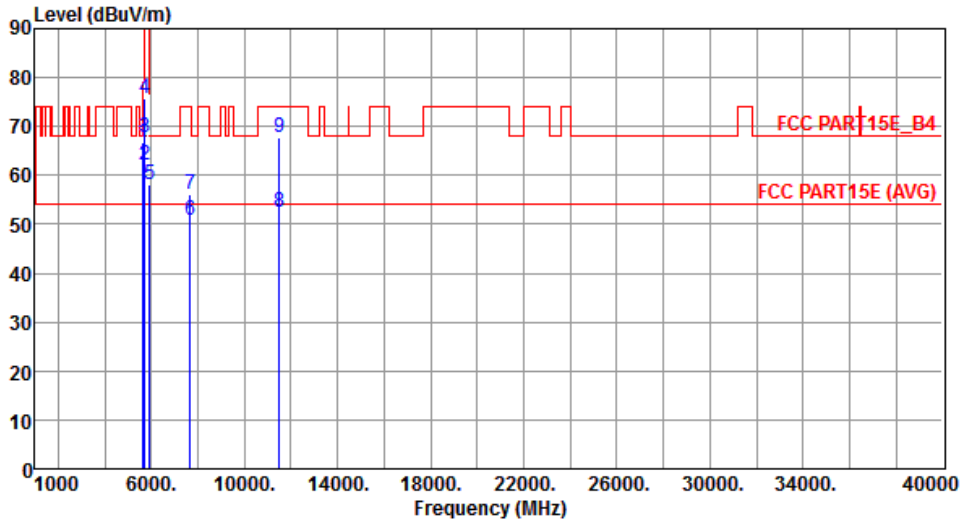
Modulation	VHT20	**Test Freq. (MHz)**	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.22	68.20	-5.98	56.53	5.69	Peak	147	80
2	5700.00	62.30	105.20	-42.90	56.53	5.77	Peak	147	80
3	5720.00	63.15	110.80	-47.65	57.36	5.79	Peak	147	80
4	5725.00	67.49	122.20	-54.71	61.68	5.81	Peak	147	80
5	5925.00	58.52	68.20	-9.68	52.43	6.09	Peak	147	80
6	7660.00	44.17	54.00	-9.83	34.51	9.66	Average	253	272
7	7660.00	52.55	74.00	-21.45	42.89	9.66	Peak	253	272
8	11490.00	46.96	54.00	-7.04	32.23	14.73	Average	216	165
9	11490.00	59.93	74.00	-14.07	45.20	14.73	Peak	216	165

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

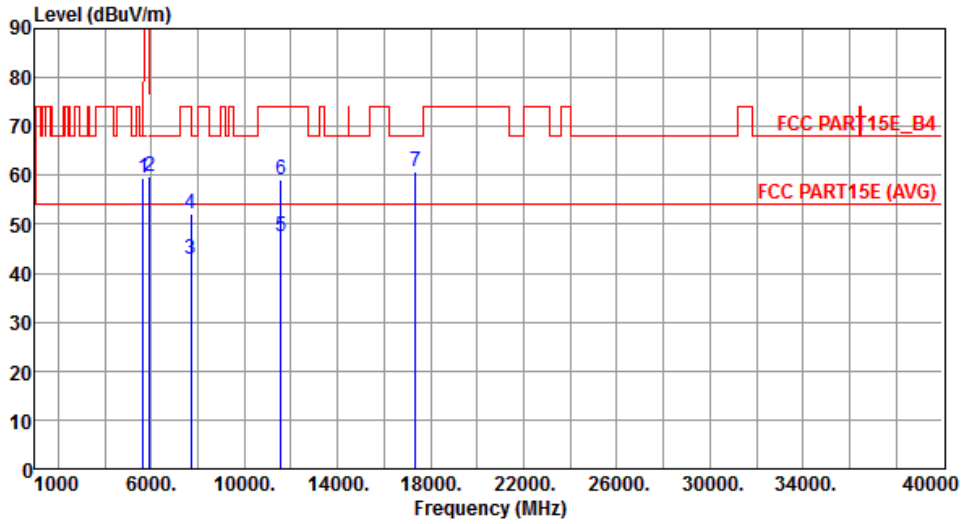
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.86	68.20	-1.34	61.17	5.69	Peak	254	268
2	5700.00	62.08	105.20	-43.12	56.31	5.77	Peak	254	268
3	5720.00	67.86	110.80	-42.94	62.07	5.79	Peak	254	268
4	5725.00	75.60	122.20	-46.60	69.79	5.81	Peak	254	268
5	5925.00	58.23	68.20	-9.97	52.14	6.09	Peak	254	268
6	7660.00	50.75	54.00	-3.25	41.09	9.66	Average	253	65
7	7660.00	56.25	74.00	-17.75	46.59	9.66	Peak	253	65
8	11490.00	52.54	54.00	-1.46	37.81	14.73	Average	254	268
9	11490.00	67.64	74.00	-6.36	52.91	14.73	Peak	254	268

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

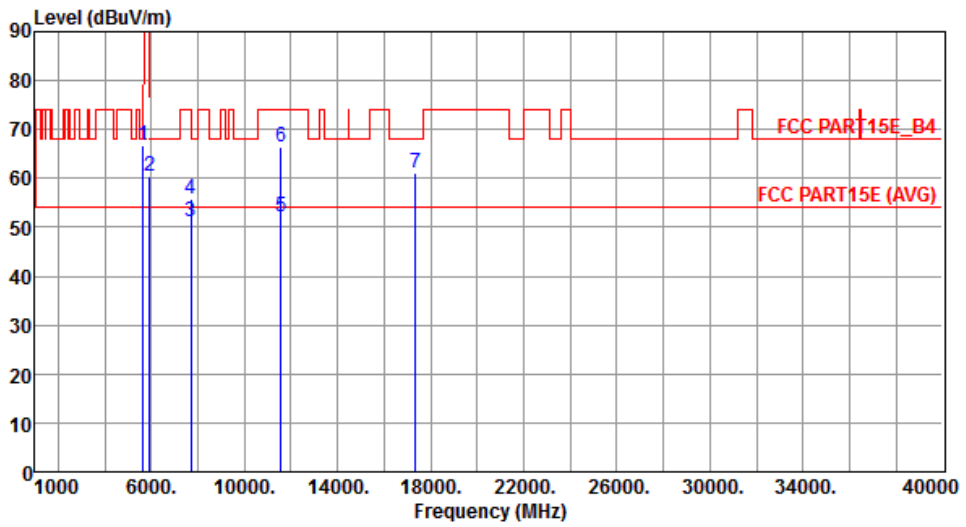
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.34	68.20	-8.86	53.65	5.69	Peak	209	110
2	5925.00	59.83	68.20	-8.37	53.74	6.09	Peak	209	110
3	7713.33	42.77	54.00	-11.23	33.10	9.67	Average	282	282
4	7713.33	52.03	74.00	-21.97	42.36	9.67	Peak	282	282
5	11570.00	47.64	54.00	-6.36	33.04	14.60	Average	283	99
6	11570.00	59.21	74.00	-14.79	44.61	14.60	Peak	283	99
7	17355.00	60.89	68.20	-7.31	43.34	17.55	Peak	201	165

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

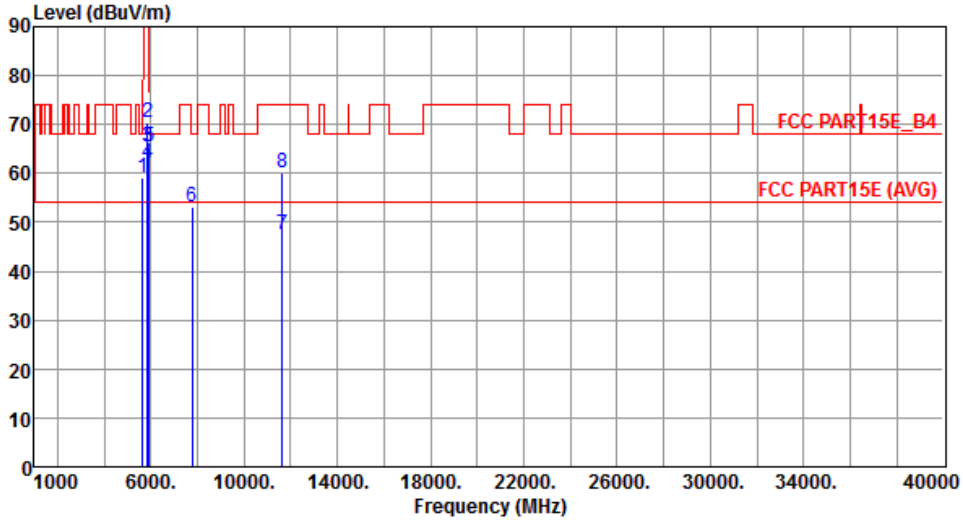
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.71	68.20	-1.49	61.02	5.69	Peak	268	87
2	5925.00	60.41	68.20	-7.79	54.32	6.09	Peak	268	87
3	7713.33	51.21	54.00	-2.79	41.54	9.67	Average	201	204
4	7713.33	55.76	74.00	-18.24	46.09	9.67	Peak	201	204
5	11570.00	52.13	54.00	-1.87	37.53	14.60	Average	235	271
6	11570.00	66.43	74.00	-7.57	51.83	14.60	Peak	235	271
7	17355.00	61.10	68.20	-7.10	43.55	17.55	Peak	185	216

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

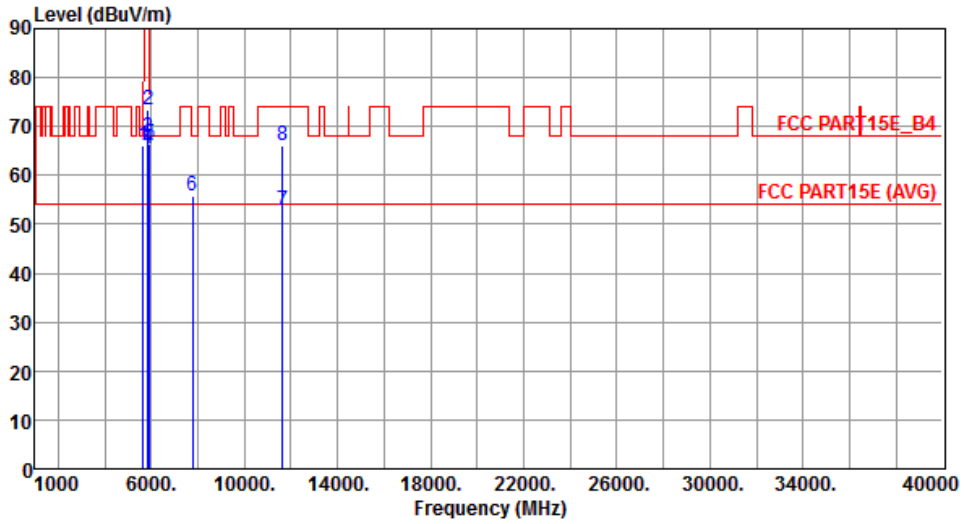
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.00	68.20	-9.20	53.31	5.69	Peak	166	78
2	5850.00	70.52	122.20	-51.68	64.53	5.99	Peak	166	78
3	5855.00	65.53	110.80	-45.27	59.53	6.00	Peak	166	78
4	5875.00	62.18	105.20	-43.02	56.16	6.02	Peak	166	78
5	5925.00	65.39	68.20	-2.81	59.30	6.09	Peak	166	78
6	7766.66	53.21	68.20	-14.99	43.53	9.68	Peak	141	284
7	11650.00	47.46	54.00	-6.54	33.02	14.44	Average	225	356
8	11650.00	59.97	74.00	-14.03	45.53	14.44	Peak	225	356

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

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

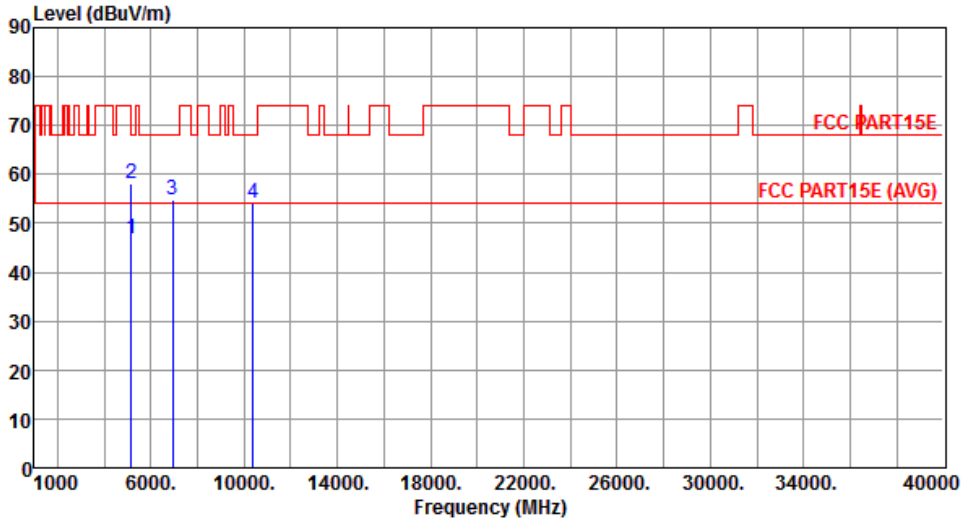


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.25	68.20	-1.95	60.56	5.69	Peak	292	7
2	5850.00	73.41	122.20	-48.79	67.42	5.99	Peak	292	7
3	5855.00	67.59	110.80	-43.21	61.59	6.00	Peak	292	7
4	5875.00	65.52	105.20	-39.68	59.50	6.02	Peak	292	7
5	5925.00	66.39	68.20	-1.81	60.30	6.09	Peak	292	7
6	7766.66	55.87	68.20	-12.33	46.19	9.68	Peak	168	125
7	11650.00	52.68	54.00	-1.32	38.24	14.44	Average	262	90
8	11650.00	66.09	74.00	-7.91	51.65	14.44	Peak	262	90

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

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

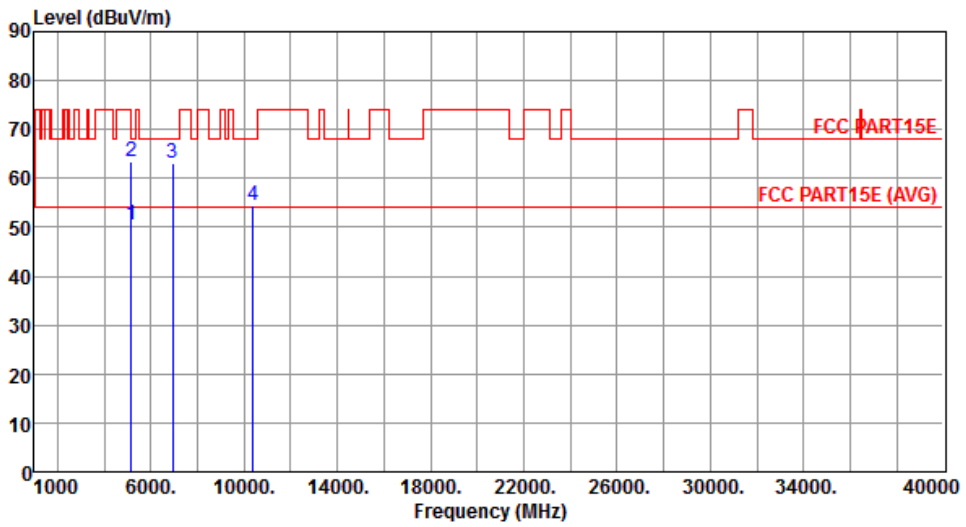
Modulation	VHT40	**Test Freq. (MHz)**	5190
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.98	54.00	-7.02	41.96	5.02	Average	200	106
2	5150.00	58.14	74.00	-15.86	53.12	5.02	Peak	200	106
3	6920.00	54.77	68.20	-13.43	46.52	8.25	Peak	105	95
4	10380.00	54.17	68.20	-14.03	40.42	13.75	Peak	100	165

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

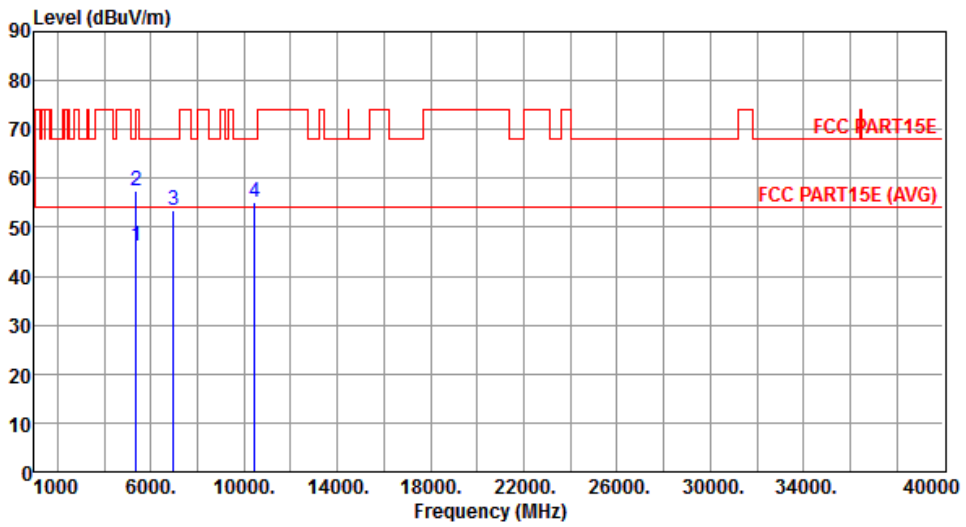
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	50.41	54.00	-3.59	45.39	5.02	Average	283	94
2	5150.00	63.58	74.00	-10.42	58.56	5.02	Peak	283	94
3	6920.00	63.12	68.20	-5.08	54.87	8.25	Peak	260	225
4	10380.00	54.48	68.20	-13.72	40.73	13.75	Peak	100	192

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

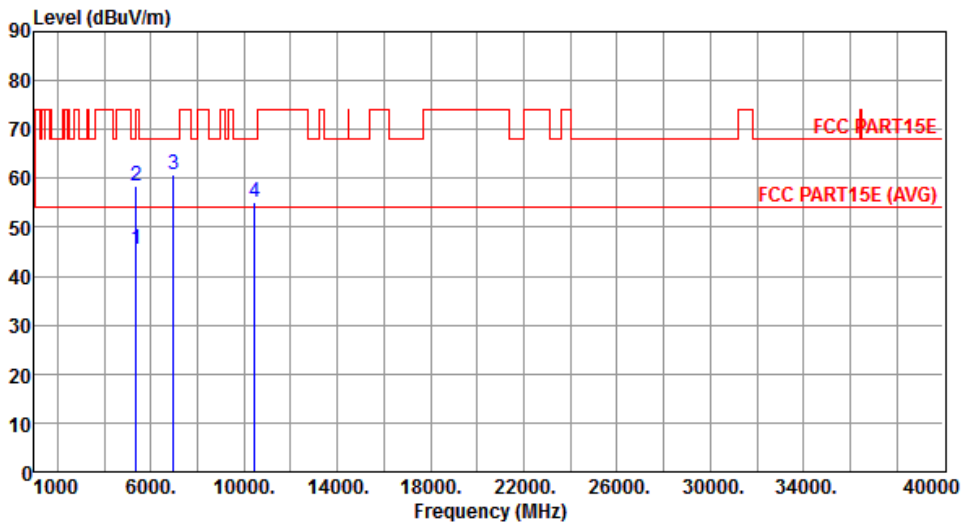
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.13	54.00	-7.87	40.82	5.31	Average	205	110
2	5350.00	57.37	74.00	-16.63	52.06	5.31	Peak	205	110
3	6973.33	53.50	68.20	-14.70	45.26	8.24	Peak	102	91
4	10460.00	55.11	68.20	-13.09	41.32	13.79	Peak	100	162

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

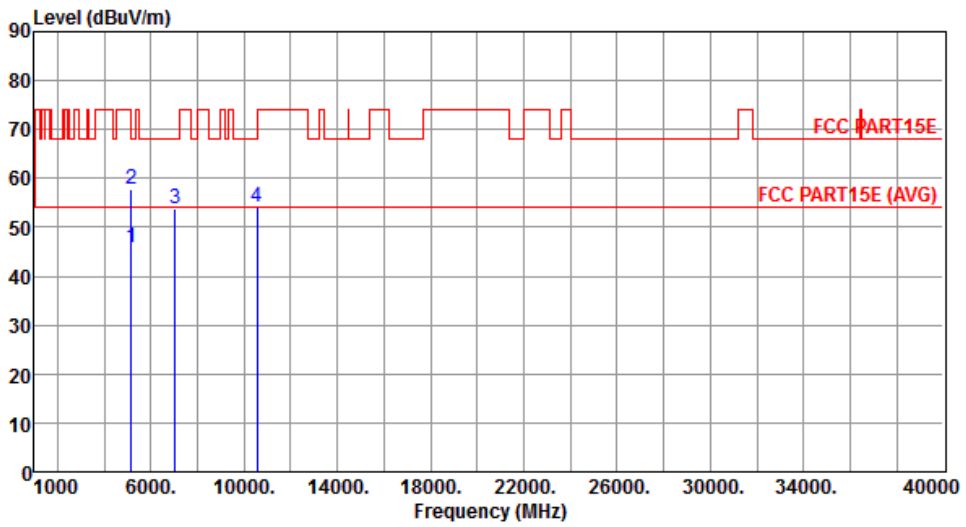
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.40	54.00	-8.60	40.09	5.31	Average	282	92
2	5350.00	58.57	74.00	-15.43	53.26	5.31	Peak	282	92
3	6973.33	60.66	68.20	-7.54	52.42	8.24	Peak	259	226
4	10460.00	55.18	68.20	-13.02	41.39	13.79	Peak	100	191

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

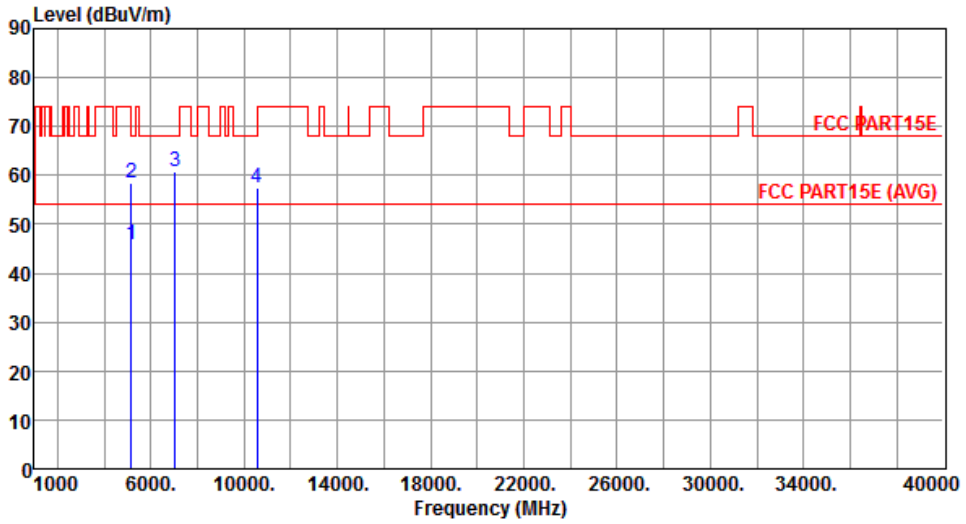
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		



	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	45.77	54.00	-8.23	40.75	5.02	Average	219	102
2	5150.00	57.70	74.00	-16.30	52.68	5.02	Peak	219	102
3	7026.66	53.67	68.20	-14.53	45.38	8.29	Peak	100	185
4	10540.00	54.17	68.20	-14.03	40.31	13.86	Peak	100	177

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

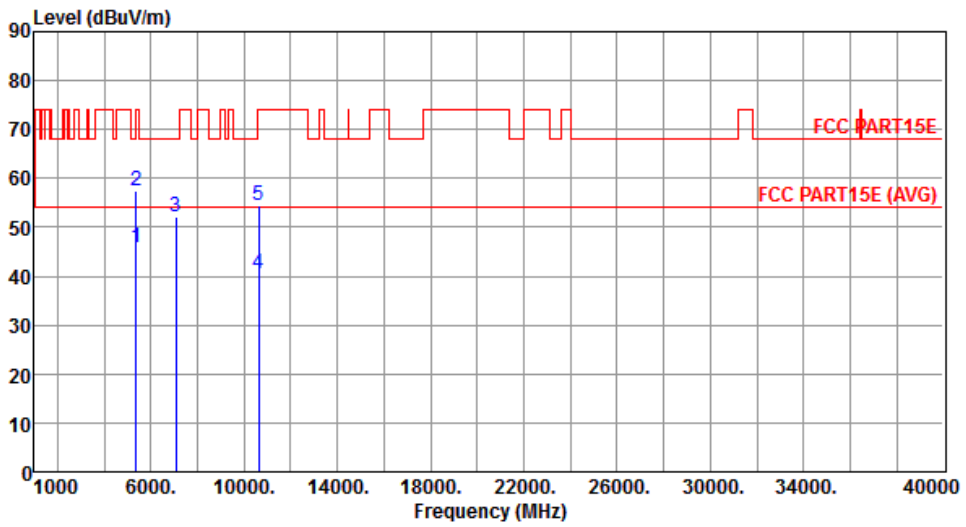
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.67	54.00	-8.33	40.65	5.02	Average	262	10
2	5150.00	58.40	74.00	-15.60	53.38	5.02	Peak	262	10
3	7026.66	60.94	68.20	-7.26	52.65	8.29	Peak	210	67
4	10540.00	57.33	68.20	-10.87	43.47	13.86	Peak	152	137

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

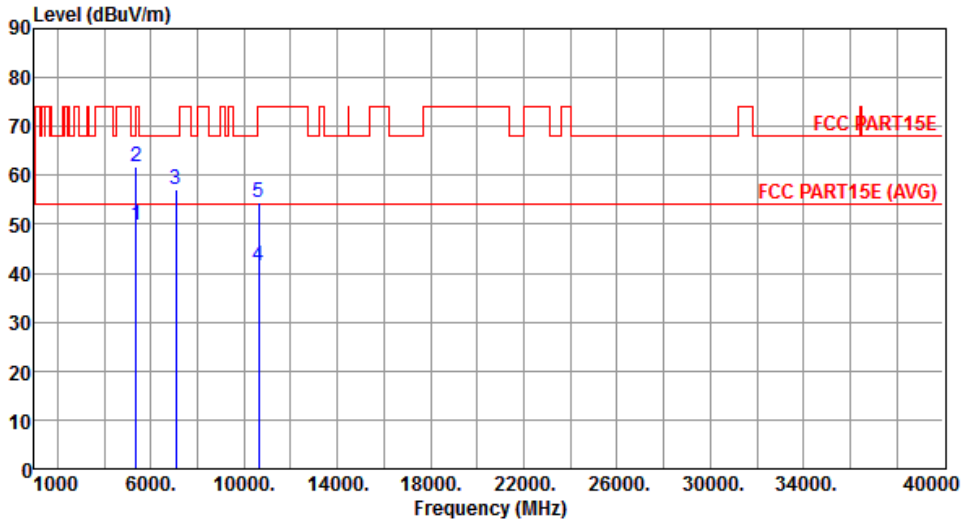
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.83	54.00	-8.17	40.52	5.31	Average	220	100
2	5350.00	57.52	74.00	-16.48	52.21	5.31	Peak	220	100
3	7080.00	52.14	68.20	-16.06	43.72	8.42	Peak	100	188
4	10620.00	40.56	54.00	-13.44	26.63	13.93	Average	100	165
5	10620.00	54.47	74.00	-19.53	40.54	13.93	Peak	100	165

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

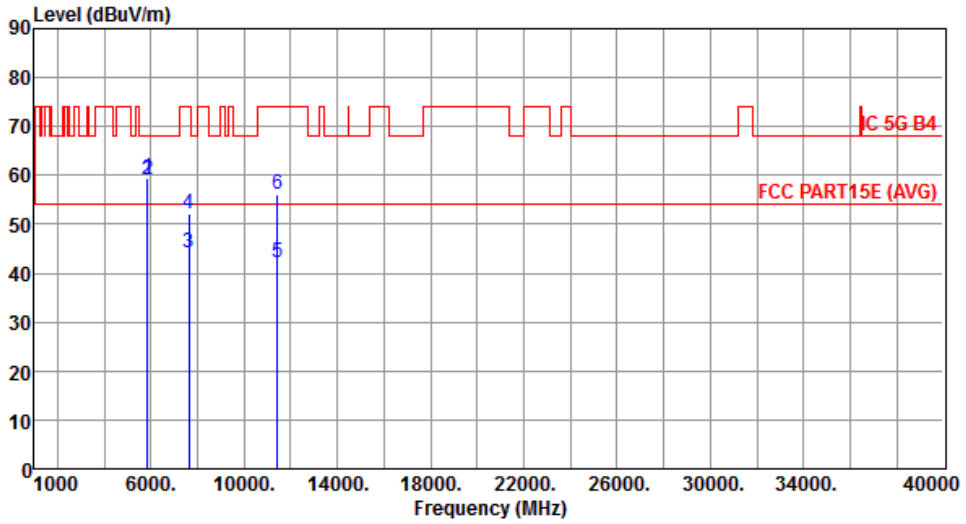
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.95	54.00	-4.05	44.64	5.31	Average	263	9
2	5350.00	61.84	74.00	-12.16	56.53	5.31	Peak	263	9
3	7080.00	57.05	68.20	-11.15	48.63	8.42	Peak	222	65
4	10620.00	41.49	54.00	-12.51	27.56	13.93	Average	155	148
5	10620.00	54.39	74.00	-19.61	40.46	13.93	Peak	155	148

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

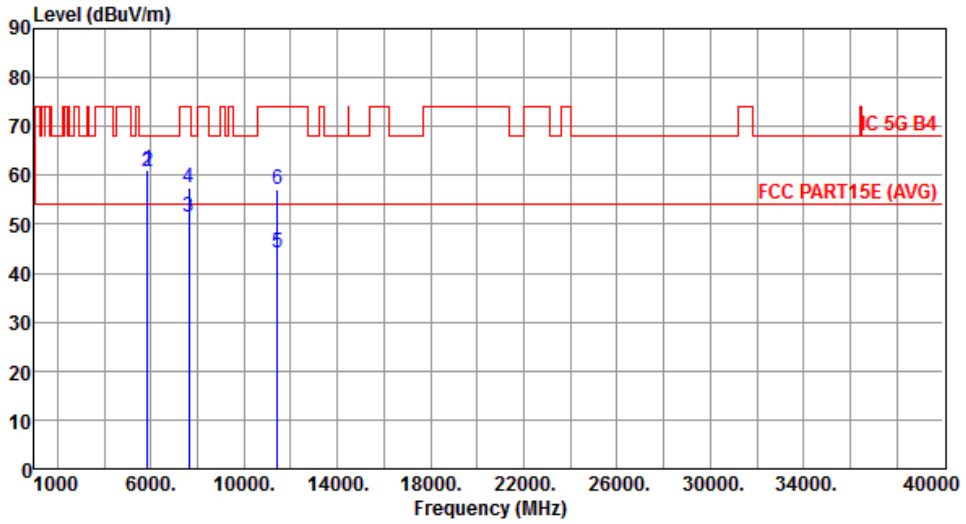
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	59.54	78.20	-18.66	53.55	5.99	Peak	214	265
2	5860.00	59.25	68.20	-8.95	53.24	6.01	Peak	214	265
3	7613.33	44.20	54.00	-9.80	34.55	9.65	Average	150	165
4	7613.33	51.99	74.00	-22.01	42.34	9.65	Peak	150	165
5	11420.00	42.20	54.00	-11.80	27.53	14.67	Average	100	177
6	11420.00	56.02	74.00	-17.98	41.35	14.67	Peak	100	177

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

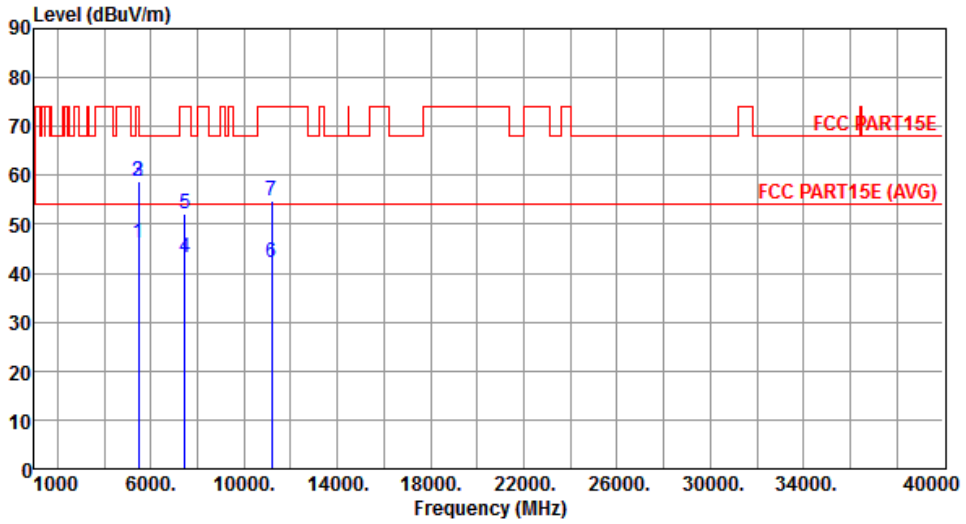
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	61.23	78.20	-16.97	55.24	5.99	Peak	252	112
2	5860.00	60.73	68.20	-7.47	54.72	6.01	Peak	252	112
3	7613.33	51.50	54.00	-2.50	41.85	9.65	Average	216	68
4	7613.33	57.33	74.00	-16.67	47.68	9.65	Peak	216	68
5	11420.00	44.20	54.00	-9.80	29.53	14.67	Average	128	168
6	11420.00	57.12	74.00	-16.88	42.45	14.67	Peak	128	168

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

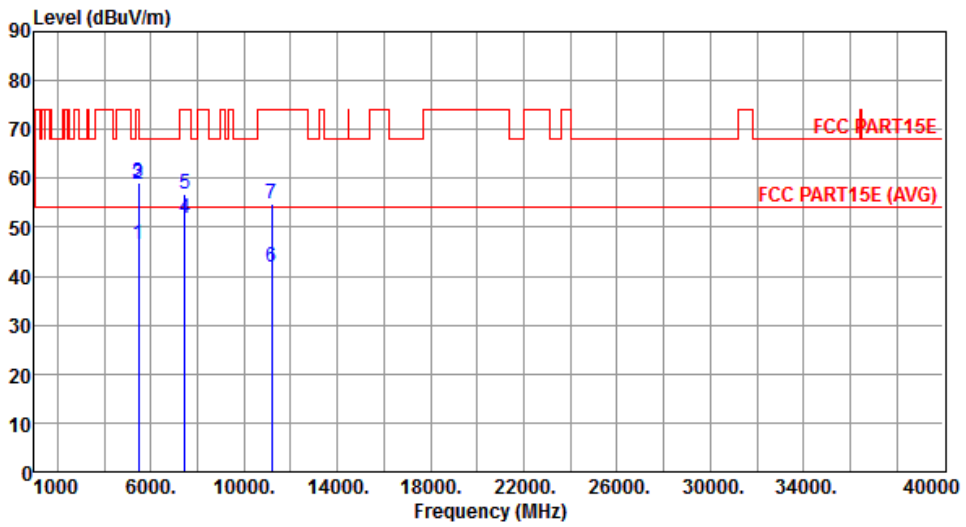
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Horizontal		



	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	46.09	54.00	-7.91	40.63	5.46	Average	215	292
2	5460.00	58.80	74.00	-15.20	53.34	5.46	Peak	215	292
3	5470.00	58.89	68.20	-9.31	53.42	5.47	Peak	215	292
4	7453.33	43.13	54.00	-10.87	33.62	9.51	Average	152	153
5	7453.33	52.05	74.00	-21.95	42.54	9.51	Peak	152	153
6	11180.00	42.10	54.00	-11.90	27.64	14.46	Average	100	138
7	11180.00	54.90	74.00	-19.10	40.44	14.46	Peak	100	138

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

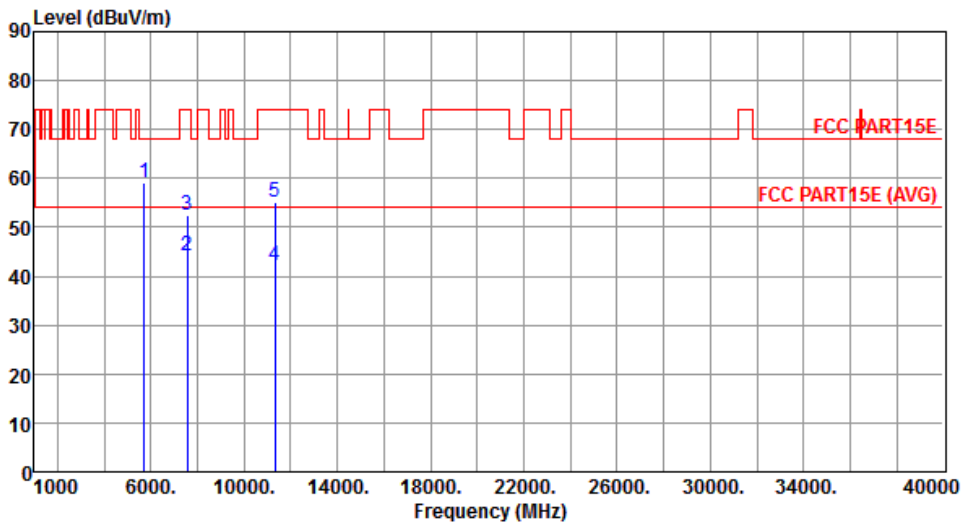
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.61	54.00	-7.39	41.15	5.46	Average	252	6
2	5460.00	58.90	74.00	-15.10	53.44	5.46	Peak	252	6
3	5470.00	59.15	68.20	-9.05	53.68	5.47	Peak	252	6
4	7453.33	51.95	54.00	-2.05	42.44	9.51	Average	215	70
5	7453.33	56.89	74.00	-17.11	47.38	9.51	Peak	215	70
6	11180.00	41.72	54.00	-12.28	27.26	14.46	Average	130	167
7	11180.00	54.89	74.00	-19.11	40.43	14.46	Peak	130	167

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

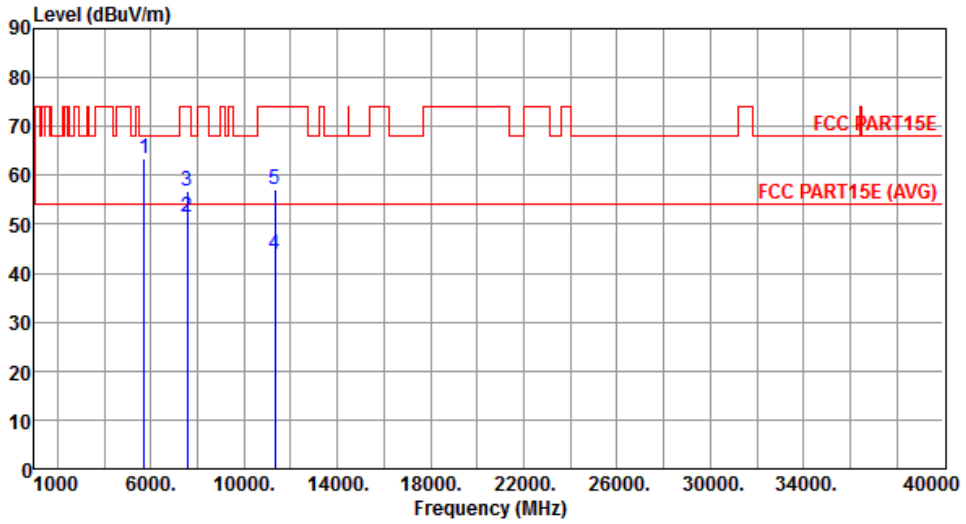
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	59.16	68.20	-9.04	53.35	5.81	Peak	215	268
2	7560.00	44.15	54.00	-9.85	34.54	9.61	Average	152	168
3	7560.00	52.35	74.00	-21.65	42.74	9.61	Peak	152	168
4	11340.00	42.02	54.00	-11.98	27.42	14.60	Average	100	171
5	11340.00	54.98	74.00	-19.02	40.38	14.60	Peak	100	171

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

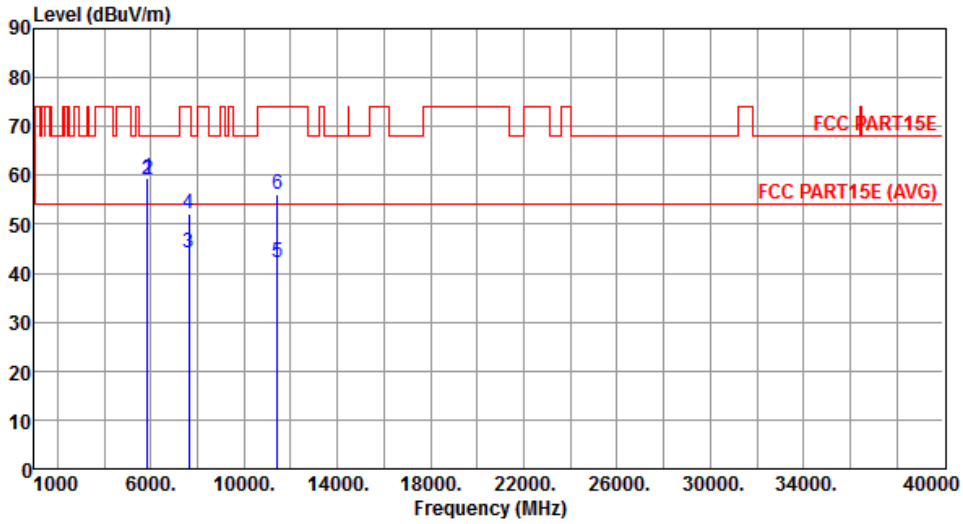
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	63.49	68.20	-4.71	57.68	5.81	Peak	255	114
2	7560.00	51.64	54.00	-2.36	42.03	9.61	Average	214	70
3	7560.00	56.73	74.00	-17.27	47.12	9.61	Peak	214	70
4	11340.00	43.86	54.00	-10.14	29.26	14.60	Average	130	165
5	11340.00	57.01	74.00	-16.99	42.41	14.60	Peak	130	165

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

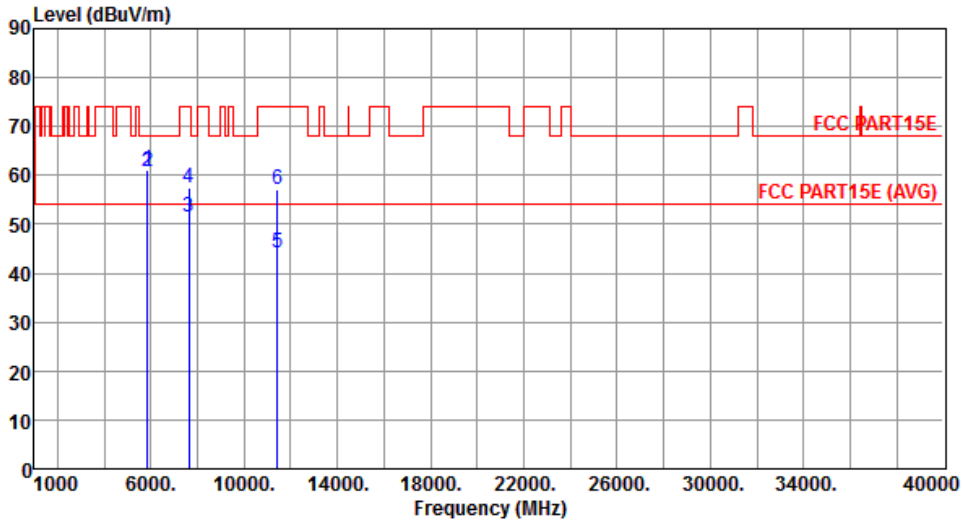
Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	59.54	68.20	-8.66	53.55	5.99	Peak	214	265
2	5860.00	59.25	68.20	-8.95	53.24	6.01	Peak	214	265
3	7613.33	44.20	54.00	-9.80	34.55	9.65	Average	150	165
4	7613.33	51.99	74.00	-22.01	42.34	9.65	Peak	150	165
5	11420.00	42.20	54.00	-11.80	27.53	14.67	Average	100	177
6	11420.00	56.02	74.00	-17.98	41.35	14.67	Peak	100	177

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

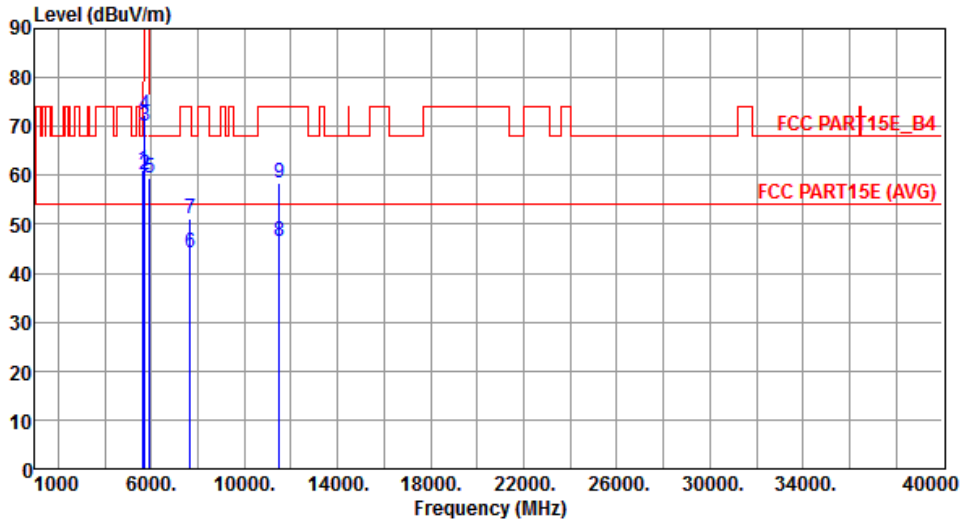
Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	61.23	68.20	-6.97	55.24	5.99	Peak	252	112
2	5860.00	60.73	68.20	-7.47	54.72	6.01	Peak	252	112
3	7613.33	51.50	54.00	-2.50	41.85	9.65	Average	216	68
4	7613.33	57.33	74.00	-16.67	47.68	9.65	Peak	216	68
5	11420.00	44.20	54.00	-9.80	29.53	14.67	Average	128	168
6	11420.00	57.12	74.00	-16.88	42.45	14.67	Peak	128	168

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

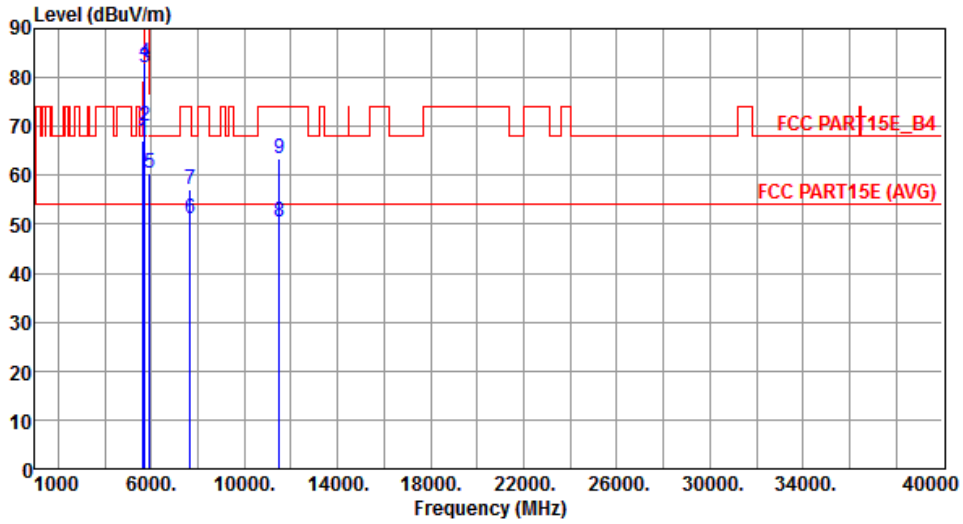
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.22	68.20	-6.98	55.53	5.69	Peak	209	117
2	5700.00	60.19	105.20	-45.01	54.42	5.77	Peak	209	117
3	5720.00	70.11	110.80	-40.69	64.32	5.79	Peak	209	117
4	5725.00	72.56	122.20	-49.64	66.75	5.81	Peak	209	117
5	5925.00	59.50	68.20	-8.70	53.41	6.09	Peak	209	117
6	7673.33	44.19	54.00	-9.81	34.53	9.66	Average	168	142
7	7673.33	51.04	74.00	-22.96	41.38	9.66	Peak	168	142
8	11510.00	46.35	54.00	-7.65	31.63	14.72	Average	142	163
9	11510.00	58.29	74.00	-15.71	43.57	14.72	Peak	142	163

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

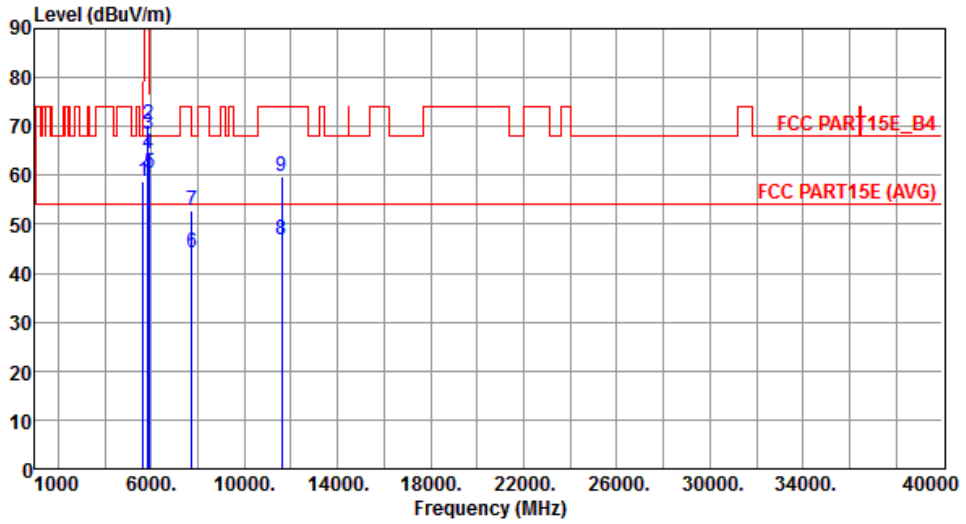
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	67.07	68.20	-1.13	61.38	5.69	Peak	260	94
2	5700.00	70.14	105.20	-35.06	64.37	5.77	Peak	260	94
3	5720.00	82.08	110.80	-28.72	76.29	5.79	Peak	260	94
4	5725.00	83.19	122.20	-39.01	77.38	5.81	Peak	260	94
5	5925.00	60.56	68.20	-7.64	54.47	6.09	Peak	260	94
6	7673.33	51.19	54.00	-2.81	41.53	9.66	Average	200	156
7	7673.33	57.04	74.00	-16.96	47.38	9.66	Peak	200	156
8	11510.00	50.37	54.00	-3.63	35.65	14.72	Average	164	172
9	11510.00	63.33	74.00	-10.67	48.61	14.72	Peak	164	172

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

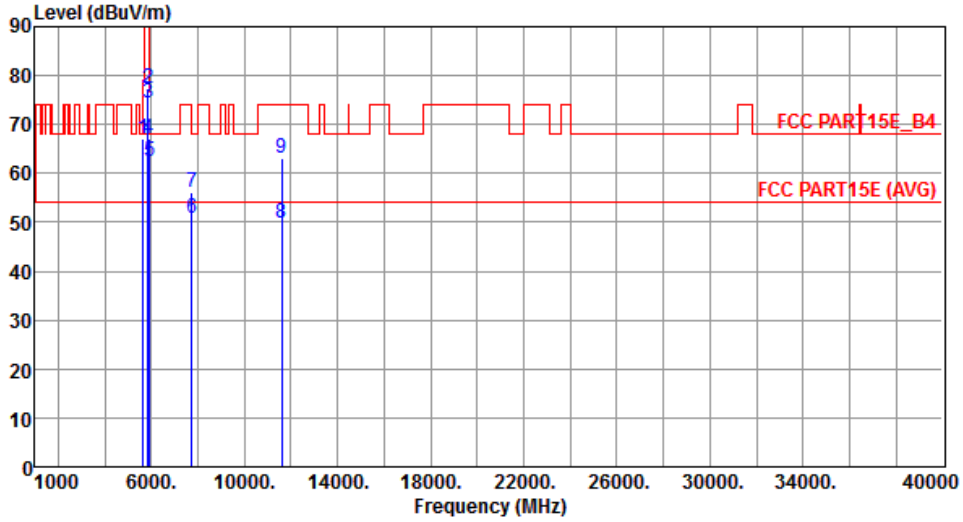
Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	58.93	68.20	-9.27	53.24	5.69	Peak	210	115
2	5850.00	70.41	122.20	-51.79	64.42	5.99	Peak	210	115
3	5855.00	68.42	110.80	-42.38	62.42	6.00	Peak	210	115
4	5875.00	64.38	105.20	-40.82	58.36	6.02	Peak	210	115
5	5925.00	60.35	68.20	-7.85	54.26	6.09	Peak	210	115
6	7726.66	44.25	54.00	-9.75	34.58	9.67	Average	165	138
7	7726.66	52.93	74.00	-21.07	43.26	9.67	Peak	165	138
8	11590.00	46.86	54.00	-7.14	32.30	14.56	Average	139	158
9	11590.00	59.69	74.00	-14.31	45.13	14.56	Peak	139	158

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

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

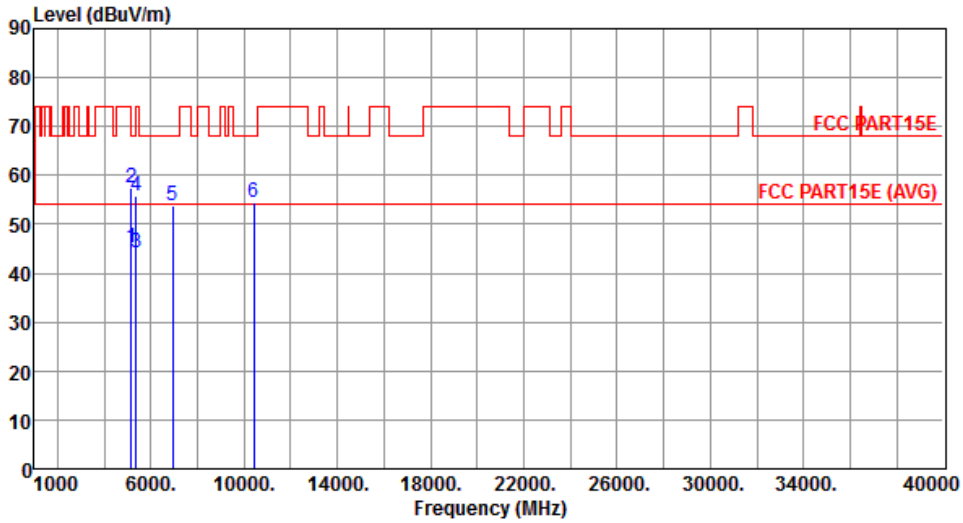


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	67.04	68.20	-1.16	61.35	5.69	Peak	259	90
2	5850.00	77.51	122.20	-44.69	71.52	5.99	Peak	259	90
3	5855.00	74.31	110.80	-36.49	68.31	6.00	Peak	259	90
4	5875.00	67.17	105.20	-38.03	61.15	6.02	Peak	259	90
5	5925.00	62.40	68.20	-5.80	56.31	6.09	Peak	259	90
6	7726.66	50.65	54.00	-3.35	40.98	9.67	Average	198	145
7	7726.66	56.13	74.00	-17.87	46.46	9.67	Peak	198	145
8	11590.00	49.86	54.00	-4.14	35.30	14.56	Average	162	170
9	11590.00	63.03	74.00	-10.97	48.47	14.56	Peak	162	170

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

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

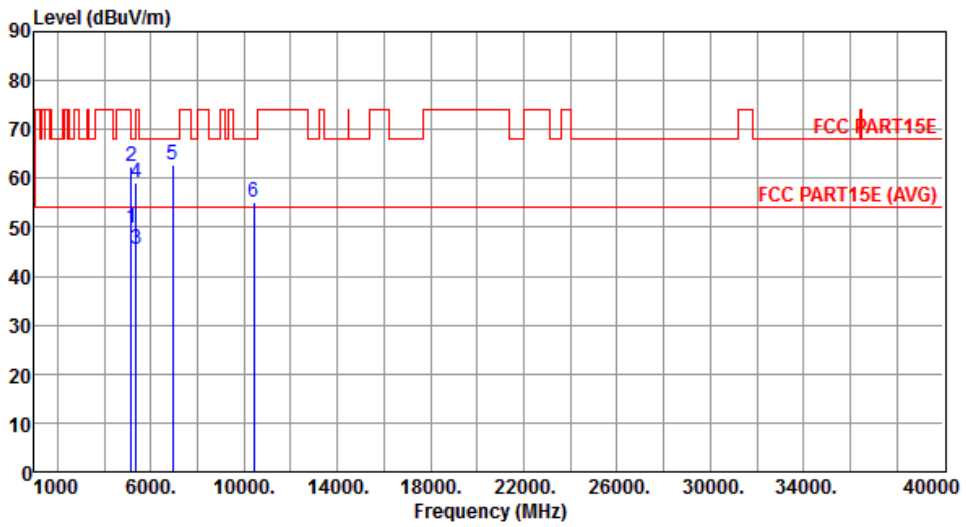
Modulation	VHT80	**Test Freq. (MHz)**	5210
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.26	54.00	-8.74	40.24	5.02	Average	175	108
2	5150.00	57.56	74.00	-16.44	52.54	5.02	Peak	175	108
3	5350.00	44.08	54.00	-9.92	38.77	5.31	Average	175	108
4	5350.00	55.85	74.00	-18.15	50.54	5.31	Peak	175	108
5	6946.66	53.85	68.20	-14.35	45.62	8.23	Peak	172	168
6	10420.00	54.50	68.20	-13.70	40.72	13.78	Peak	100	155

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

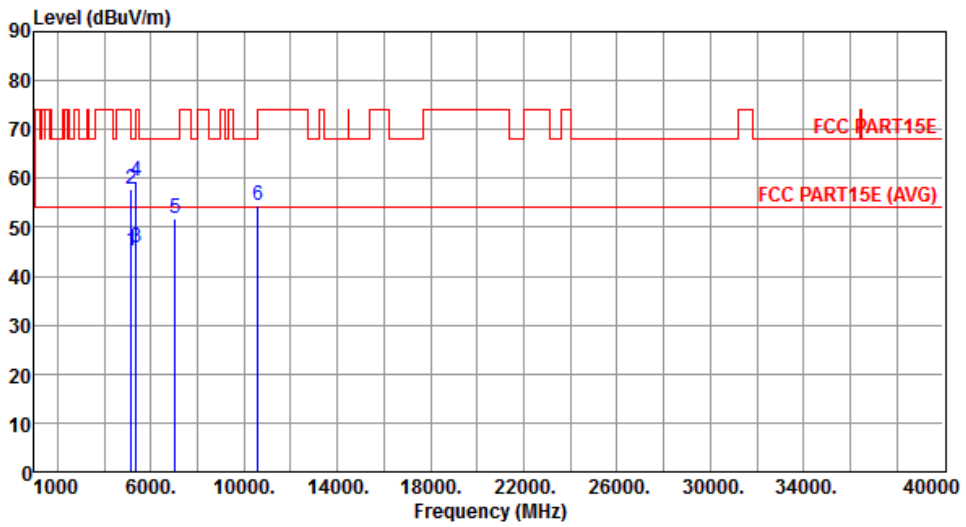
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.66	54.00	-4.34	44.64	5.02	Average	257	99
2	5150.00	62.44	74.00	-11.56	57.42	5.02	Peak	257	99
3	5350.00	45.58	54.00	-8.42	40.27	5.31	Average	257	99
4	5350.00	58.95	74.00	-15.05	53.64	5.31	Peak	257	99
5	6946.66	62.76	68.20	-5.44	54.53	8.23	Peak	100	177
6	10420.00	55.05	68.20	-13.15	41.27	13.78	Peak	100	138

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

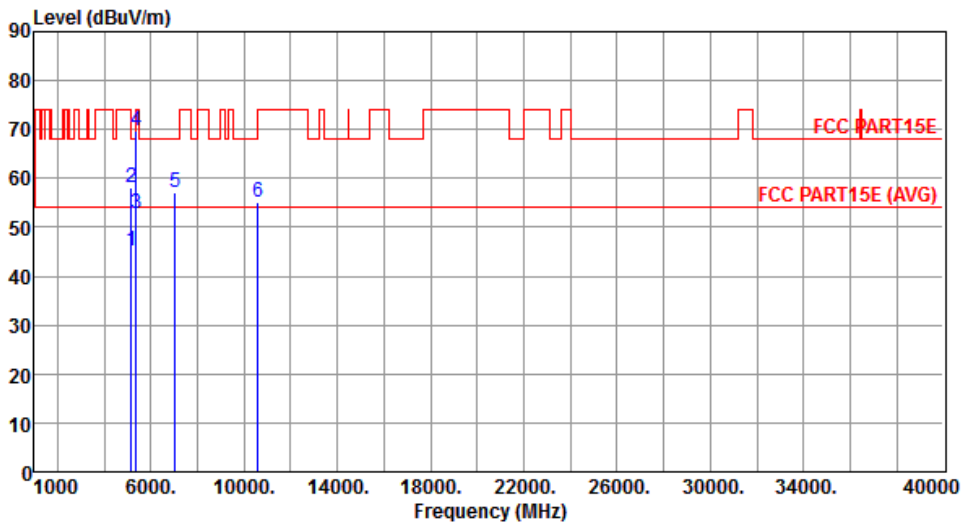
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		



	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	45.26	54.00	-8.74	40.24	5.02	Average	216	110
2	5150.00	57.88	74.00	-16.12	52.86	5.02	Peak	216	110
3	5350.00	45.99	54.00	-8.01	40.68	5.31	Average	216	110
4	5350.00	59.46	74.00	-14.54	54.15	5.31	Peak	216	110
5	7053.33	51.84	68.20	-16.36	43.48	8.36	Peak	142	215
6	10580.00	54.34	68.20	-13.86	40.44	13.90	Peak	122	138

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

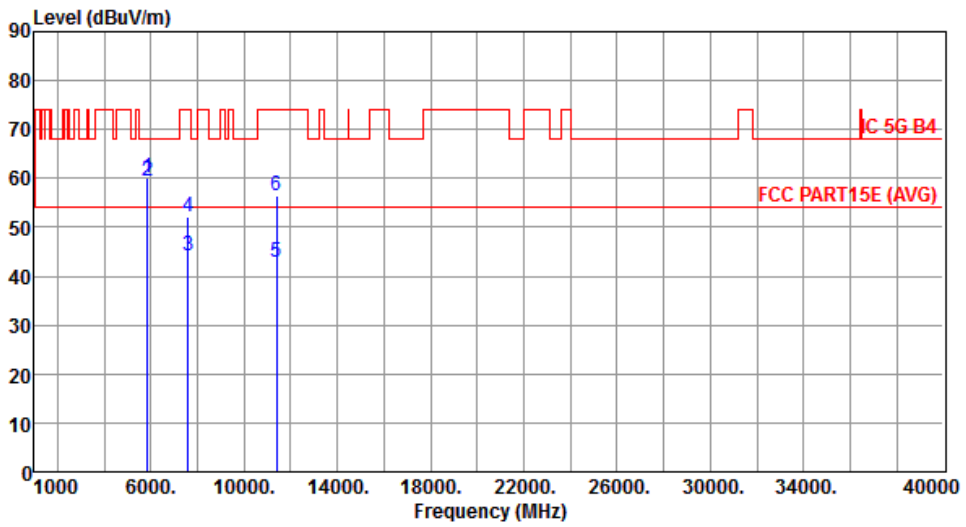
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.26	54.00	-8.74	40.24	5.02	Average	253	99
2	5150.00	58.27	74.00	-15.73	53.25	5.02	Peak	253	99
3	5350.00	52.75	54.00	-1.25	47.44	5.31	Average	253	99
4	5350.00	69.76	74.00	-4.24	64.45	5.31	Peak	253	99
5	7053.33	57.08	68.20	-11.12	48.72	8.36	Peak	155	162
6	10580.00	55.21	68.20	-12.99	41.31	13.90	Peak	155	162

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

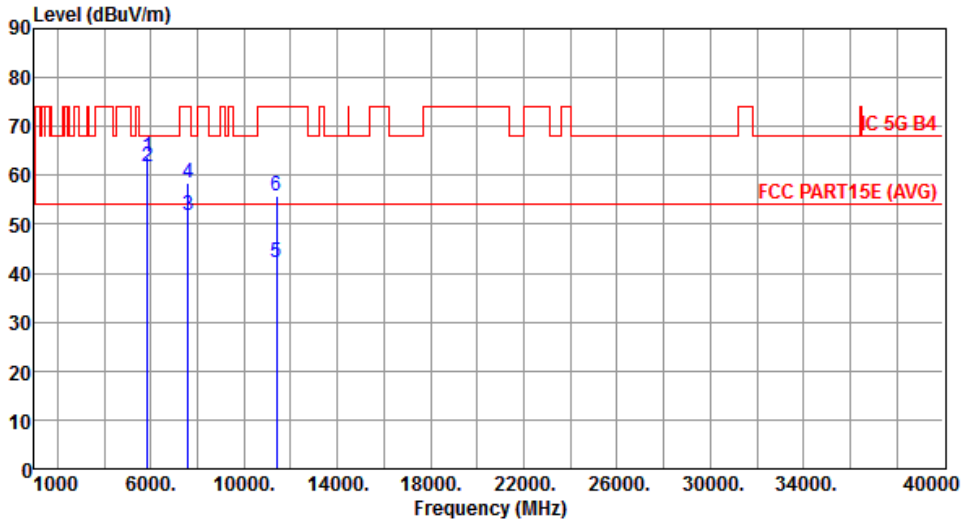
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	60.27	78.20	-17.93	54.28	5.99	Peak	240	6
2	5860.00	59.39	68.20	-8.81	53.38	6.01	Peak	240	6
3	7586.66	44.17	54.00	-9.83	34.54	9.63	Average	175	140
4	7586.66	51.99	74.00	-22.01	42.36	9.63	Peak	175	140
5	11380.00	42.97	54.00	-11.03	28.34	14.63	Average	162	15
6	11380.00	56.39	74.00	-17.61	41.76	14.63	Peak	162	15

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

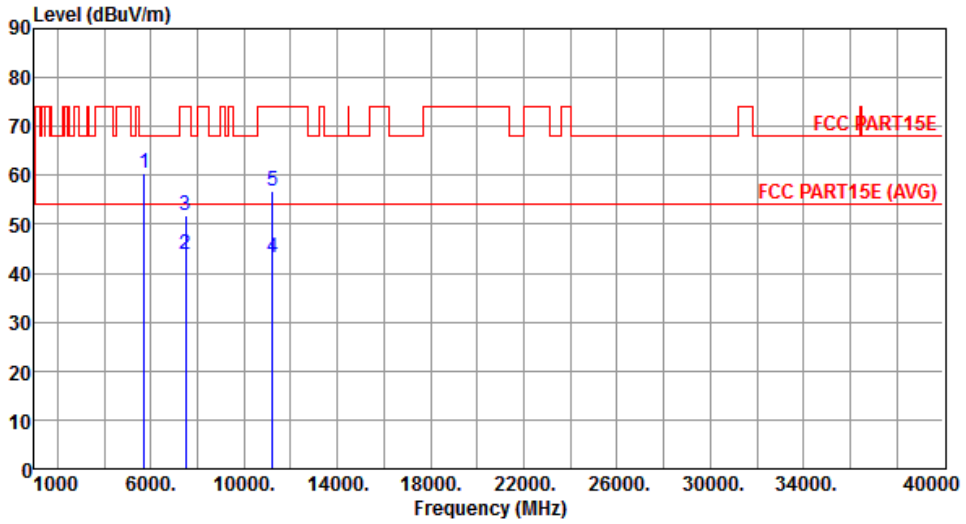
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	63.62	78.20	-14.58	57.63	5.99	Peak	280	325
2	5860.00	61.84	68.20	-6.36	55.83	6.01	Peak	280	325
3	7586.66	51.79	54.00	-2.21	42.16	9.63	Average	125	310
4	7586.66	58.29	74.00	-15.71	48.66	9.63	Peak	125	310
5	11380.00	42.31	54.00	-11.69	27.68	14.63	Average	155	175
6	11380.00	55.91	74.00	-18.09	41.28	14.63	Peak	155	175

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

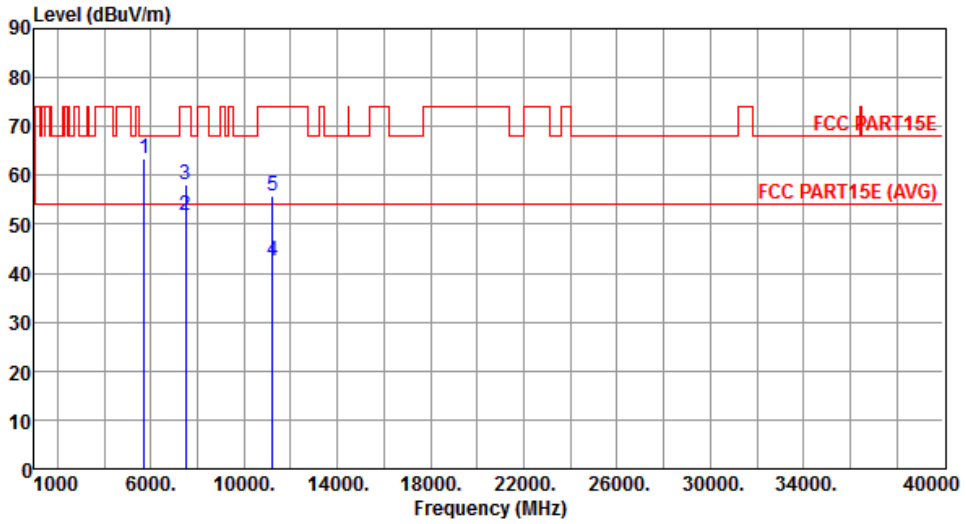
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		



	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	60.34	68.20	-7.86	54.53	5.81	Peak	239	13
2	7480.00	43.80	54.00	-10.20	34.25	9.55	Average	177	138
3	7480.00	51.79	74.00	-22.21	42.24	9.55	Peak	177	138
4	11220.00	43.14	54.00	-10.86	28.65	14.49	Average	165	20
5	11220.00	56.87	74.00	-17.13	42.38	14.49	Peak	165	20

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

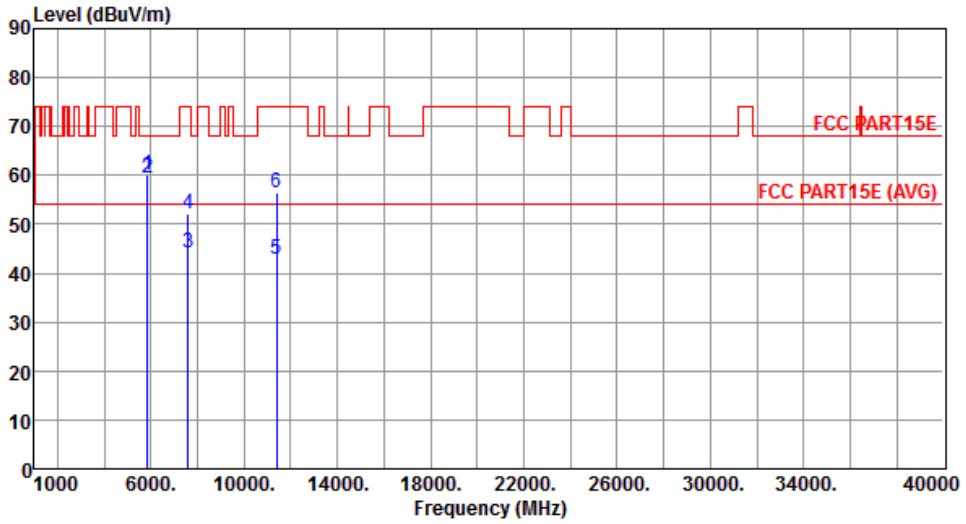
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	63.46	68.20	-4.74	57.65	5.81	Peak	281	326
2	7480.00	51.88	54.00	-2.12	42.33	9.55	Average	124	312
3	7480.00	58.07	74.00	-15.93	48.52	9.55	Peak	124	312
4	11220.00	42.61	54.00	-11.39	28.12	14.49	Average	156	186
5	11220.00	55.70	74.00	-18.30	41.21	14.49	Peak	156	186

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

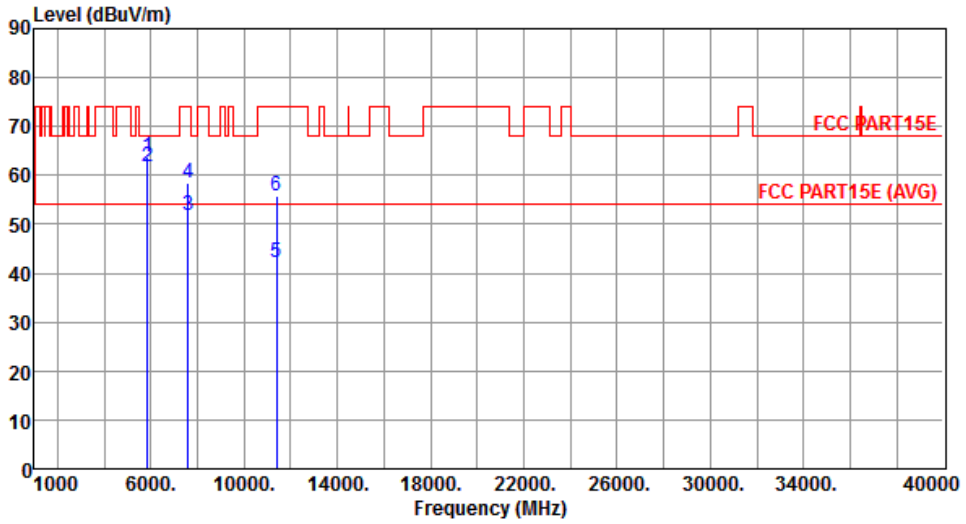
Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Horizontal		



	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	60.27	68.20	-7.93	54.28	5.99	Peak	240	6
2	5860.00	59.39	68.20	-8.81	53.38	6.01	Peak	240	6
3	7586.66	44.17	54.00	-9.83	34.54	9.63	Average	175	140
4	7586.66	51.99	74.00	-22.01	42.36	9.63	Peak	175	140
5	11380.00	42.97	54.00	-11.03	28.34	14.63	Average	162	15
6	11380.00	56.39	74.00	-17.61	41.76	14.63	Peak	162	15

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

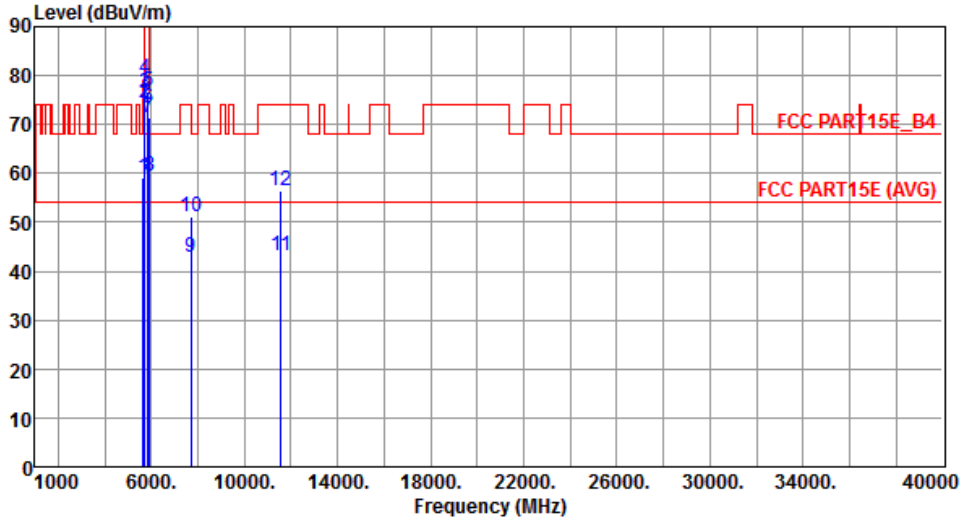
Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	63.62	68.20	-4.58	57.63	5.99	Peak	280	325
2	5860.00	61.84	68.20	-6.36	55.83	6.01	Peak	280	325
3	7586.66	51.79	54.00	-2.21	42.16	9.63	Average	125	310
4	7586.66	58.29	74.00	-15.71	48.66	9.63	Peak	125	310
5	11380.00	42.31	54.00	-11.69	27.68	14.63	Average	155	175
6	11380.00	55.91	74.00	-18.09	41.28	14.63	Peak	155	175

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

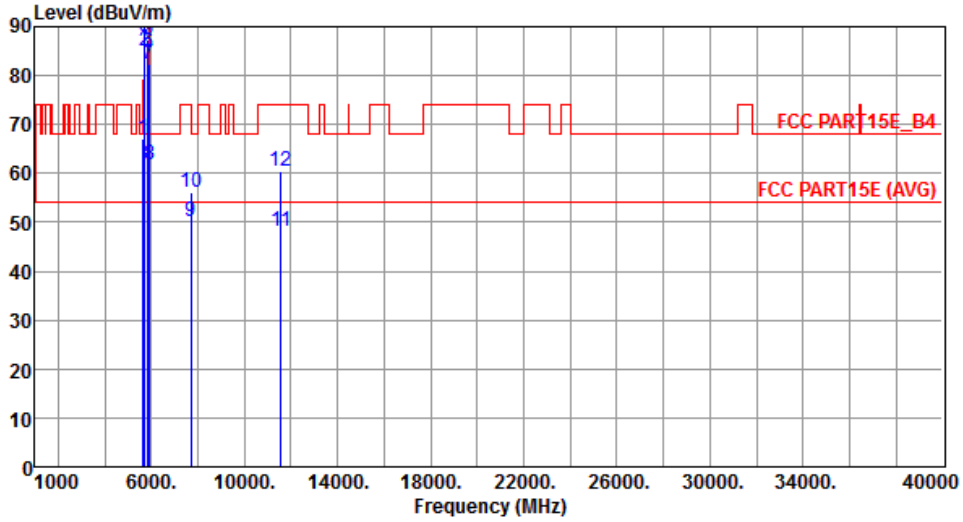
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.12	68.20	-9.08	53.43	5.69	Peak	162	85
2	5700.00	74.45	105.20	-30.75	68.68	5.77	Peak	162	85
3	5720.00	76.33	110.80	-34.47	70.54	5.79	Peak	162	85
4	5725.00	79.26	122.20	-42.94	73.45	5.81	Peak	162	85
5	5850.00	76.60	122.20	-45.60	70.61	5.99	Peak	162	85
6	5855.00	73.48	110.80	-37.32	67.48	6.00	Peak	162	85
7	5875.00	71.55	105.20	-33.65	65.53	6.02	Peak	162	85
8	5925.00	59.61	68.20	-8.59	53.52	6.09	Peak	162	85
9	7700.00	42.79	54.00	-11.21	33.12	9.67	Average	142	148
10	7700.00	51.29	74.00	-22.71	41.62	9.67	Peak	142	148
11	11550.00	43.20	54.00	-10.80	28.56	14.64	Average	142	148
12	11550.00	56.37	74.00	-17.63	41.73	14.64	Peak	142	148

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

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	67.12	68.20	-1.08	61.43	5.69	Peak	239	95
2	5700.00	85.18	105.20	-20.02	79.41	5.77	Peak	239	95
3	5720.00	88.15	110.80	-22.65	82.36	5.79	Peak	239	95
4	5725.00	91.07	122.20	-31.13	85.26	5.81	Peak	239	95
5	5850.00	87.31	122.20	-34.89	81.32	5.99	Peak	239	95
6	5855.00	84.54	110.80	-26.26	78.54	6.00	Peak	239	95
7	5875.00	82.45	105.20	-22.75	76.43	6.02	Peak	239	95
8	5925.00	61.63	68.20	-6.57	55.54	6.09	Peak	239	95
9	7700.00	50.18	54.00	-3.82	40.51	9.67	Average	162	175
10	7700.00	56.20	74.00	-17.80	46.53	9.67	Peak	162	175
11	11550.00	48.15	54.00	-5.85	33.51	14.64	Average	148	146
12	11550.00	60.36	74.00	-13.64	45.72	14.64	Peak	148	146

Note 1: Emission Level (dBuV/m) = SA Reading (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

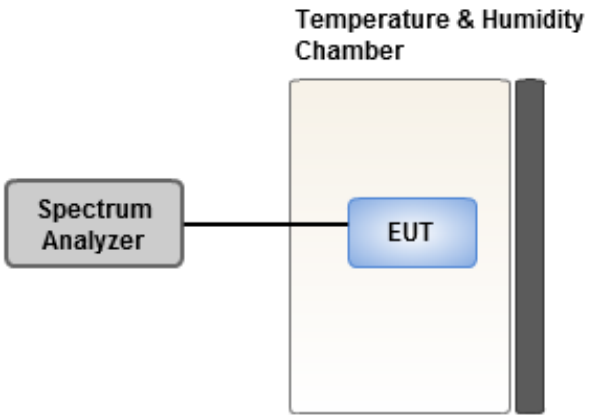
3.6.1 Limit of Frequency Stability

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°CVmax	-0.25	0.29	-0.34	0.14
T20°CVmin	0.35	0.58	0.09	0.32
T70°CVnom	0.68	1.47	0.28	0.53
T60°CVnom	0.17	0.22	0.89	0.22
T50CVnom	0.59	0.88	0.28	0.42
T40°CVnom	-0.10	0.29	-0.52	0.43
T30°CVnom	0.41	0.62	1.11	0.92
T20°CVnom	0.27	0.69	0.41	-0.04
T10°CVnom	0.71	0.60	1.04	1.08
T0°CVnom	0.28	0.24	0.69	0.54
T-10°CVnom	-0.24	-0.30	-0.47	0.41
T-20°CVnom	0.22	0.71	0.47	0.15
T-30°CVnom	0.66	0.52	0.96	1.11
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 70		Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-0.22	0.41	0.13	0.15
T20°CVmin	0.12	0.63	0.21	0.20
T70°CVnom	-0.17	0.25	-0.41	-0.07
T60°CVnom	0.25	0.37	0.01	0.64
T50CVnom	-0.34	-0.22	-0.27	-0.44
T40°CVnom	-0.18	0.35	-0.32	0.32
T30°CVnom	-0.36	0.25	0.00	-0.08
T20°CVnom	-0.06	0.61	0.31	0.13
T10°CVnom	-0.25	-0.08	0.07	0.19
T0°CVnom	0.52	1.06	1.21	1.25
T-10°CVnom	0.56	0.86	0.37	0.96
T-20°CVnom	0.37	0.98	0.34	0.21
T-30°CVnom	-0.22	0.12	0.02	0.14
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 70		Tmin [°C]: -30

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou	**Kwei Shan**	**Kwei Shan Site II**
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No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

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

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