

FCC Test Report

FCC ID : I88WAC6502D-E
Equipment : 802.11 ac Unified Pro Access Point
Model No. : WAC6502D-S, WAC6502D-E
Brand Name : ZyXEL
Applicant : ZyXEL Communications Corporation
Address : No. 2, Gongye E. 9th Road, Hsinchu Science
Park, Hsinchu, Taiwan
Standard : 47 CFR FCC Part 15.407
Received Date : Sep. 18, 2014
Tested Date : Sep. 25 ~ Oct. 31, 2014

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

Approved & Reviewed by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR491801-01AN	Rev. 01	Initial issue	Jan. 23, 2015

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.219MHz 39.95 (Margin -12.91dB) - AV	Pass
15.407(b)(1)(2)(3) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5470.00MHz 53.77 (Margin -0.23dB) - AV	Pass
15.407(a)(1)(2)(3)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(a)(1)(2)(3)	RF Output Power	Max Power [dBm]: 5250~5350MHz: 22.85 5470~5725MHz: 22.86	Pass
15.407(a)(1)(2)(3)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(a)(6)	Peak Excursion	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 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
ZyXEL	WAC6502D-S	802.11 ac Unified Pro Access Point	With internal antenna
	WAC6502D-E		With external antenna

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5250-5350 5470-5725	a	5260-5320 5500-5720	52-64 [4] 100-144 [9]	2	6-54 Mbps
5250-5350 5470-5725	n (HT20)	5260-5320 5500-5720	52-64 [4] 100-144 [9]	2	MCS 0-15
5250-5350 5470-5725	n (HT40)	5270-5310 5510-5710	54-62 [2] 102-142 [4]	2	MCS 0-15
5250-5350 5470-5725	ac (VHT20)	5260-5320 5500-5720	52-64 [4] 100-144 [9]	2	MCS 0-9
5250-5350 5470-5725	ac (VHT40)	5270-5310 5510-5710	54-62 [2] 102-142 [4]	2	MCS 0-9
5250-5350 5470-5725	ac (VHT80)	5290 5530-5690	58 [1] 106-138 [2]	2	MCS 0-9

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

1.1.3 Antenna Details

Ant. No.	Type	Antenna Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)					Remark
			2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850	
1	Dipole	RSMA	5	7	7	7	7	For WAC6502D-E
2	Dipole	IPEX	4	6	6	6	6	For WAC6502D-S

Note:

- The antenna connector of PCB board of EUT is IPEX.
- WAC6502D-E has a RSMA connector jack to connect antenna and PCB board of EUT.

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	1. AC Adapter (support unit only.) Brand: DVE Model: DSA-24CA-12 120120 Rating: I/P: 100-240Vac, 50/60Hz, 0.8A O/P: 12Vdc, 2A
	2. POE Injector (support unit for radiated emission test only.) Brand: ZyXEL Model: PoE12-HP Rating: I/P: 100-240Vac, 50/60Hz, 1.5A max. O/P: 48Vdc, 42.1W
	3. POE Injector (support unit for conducted emission only.) Brand: PowerDsine 3001GC Model: E018205D G Rating: I/P: 100-250Vac, 50/60Hz, 0.5A O/P: 48Vdc, 0.35A

1.1.5 Accessories

N/A

1.1.6 Channel List

802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
52	5260	54	5270
56	5280	62	5310
60	5300	102	5510
64	5320	110	5550
100	5500	134	5670
104	5520	142	5710
108	5540	VHT80	
112	5560	58	5290
116	5580	106	5530
132	5660	138	5690
136	5680	---	---
140	5700	---	---
144	5720	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	CART, V4.9		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	98.09%	0.08
	VHT20	98.16%	0.08
	VHT40	94.59%	0.24
	VHT80	97.14%	0.13

1.1.8 Power Setting

For Frequency band 5250-5350 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5260	17
11a	5300	17
11a	5320	17.5
HT20	5260	17
HT20	5300	17.5
HT20	5320	17.5
HT40	5270	20.5
HT40	5310	16.5
VHT20	5260	17
VHT20	5300	17.5
VHT20	5320	17.5
VHT40	5270	20.5
VHT40	5310	16.5
VHT80	5290	13.5

For Frequency band 5470-5725 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5500	17
11a	5580	17
11a	5700	17.5
HT20	5500	17
HT20	5580	17.5
HT20	5700	18
HT40	5510	16.5
HT40	5550	20.5
HT40	5670	21
VHT20	5500	17
VHT20	5580	17.5
VHT20	5700	18
VHT40	5510	16.5
VHT40	5550	20.5
VHT40	5670	21
VHT80	5530	13.5

Channel that extends across the 5.725 GHz boundary

For Frequency band 5470-5725 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5720	17.5
HT20	5720	18
HT40	5710	21
VHT20	5720	18
VHT40	5710	21
VHT80	5690	21

1.2 Local Support Equipment List

Support Equipment List (Adapter Mode)					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E5430	C0GB4X1	RJ45, 10m non-shielded w/o core.
2	Notebook	DELL	Latitude E5430	9ZFB4X1	RJ45, 10m non-shielded w/o core.
3	AC Adapter	DVE	DSA-24CA-12 120120	---	---

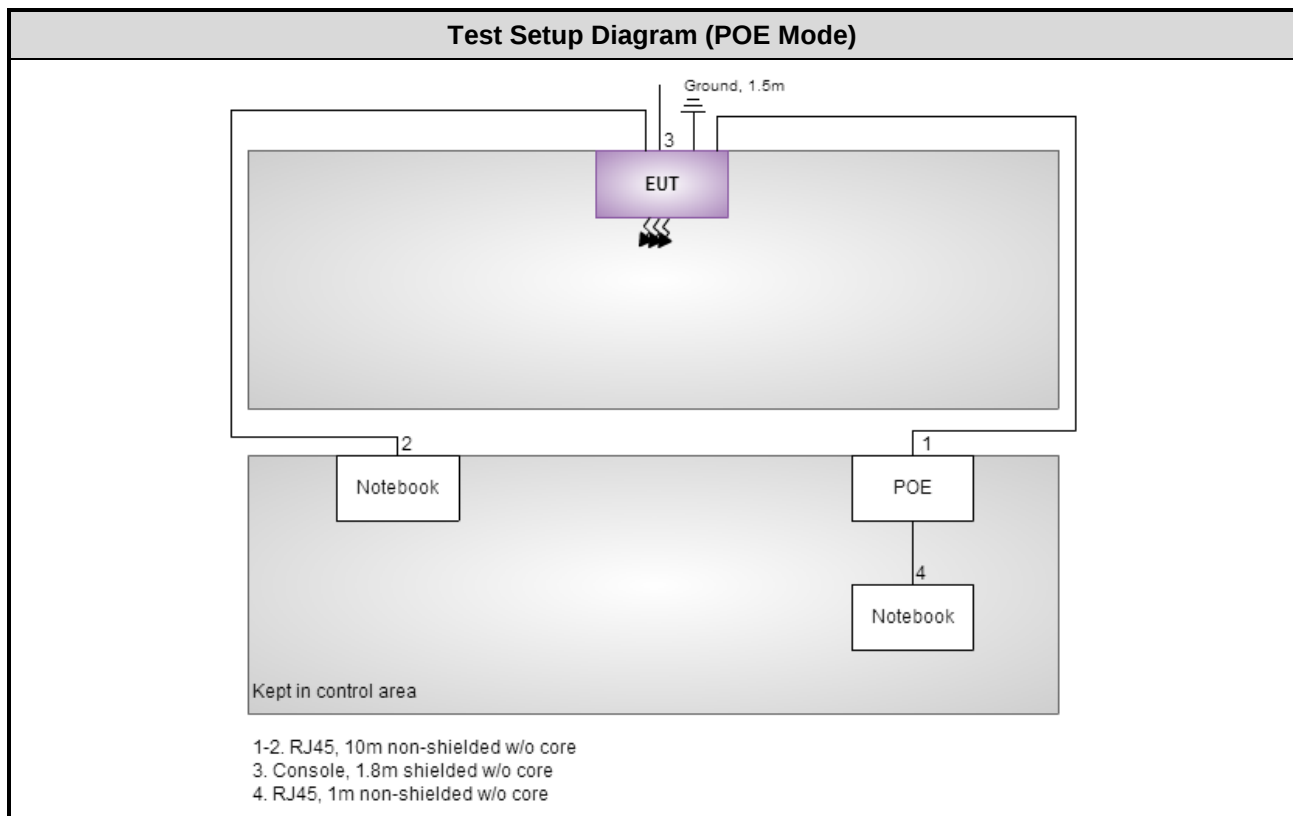
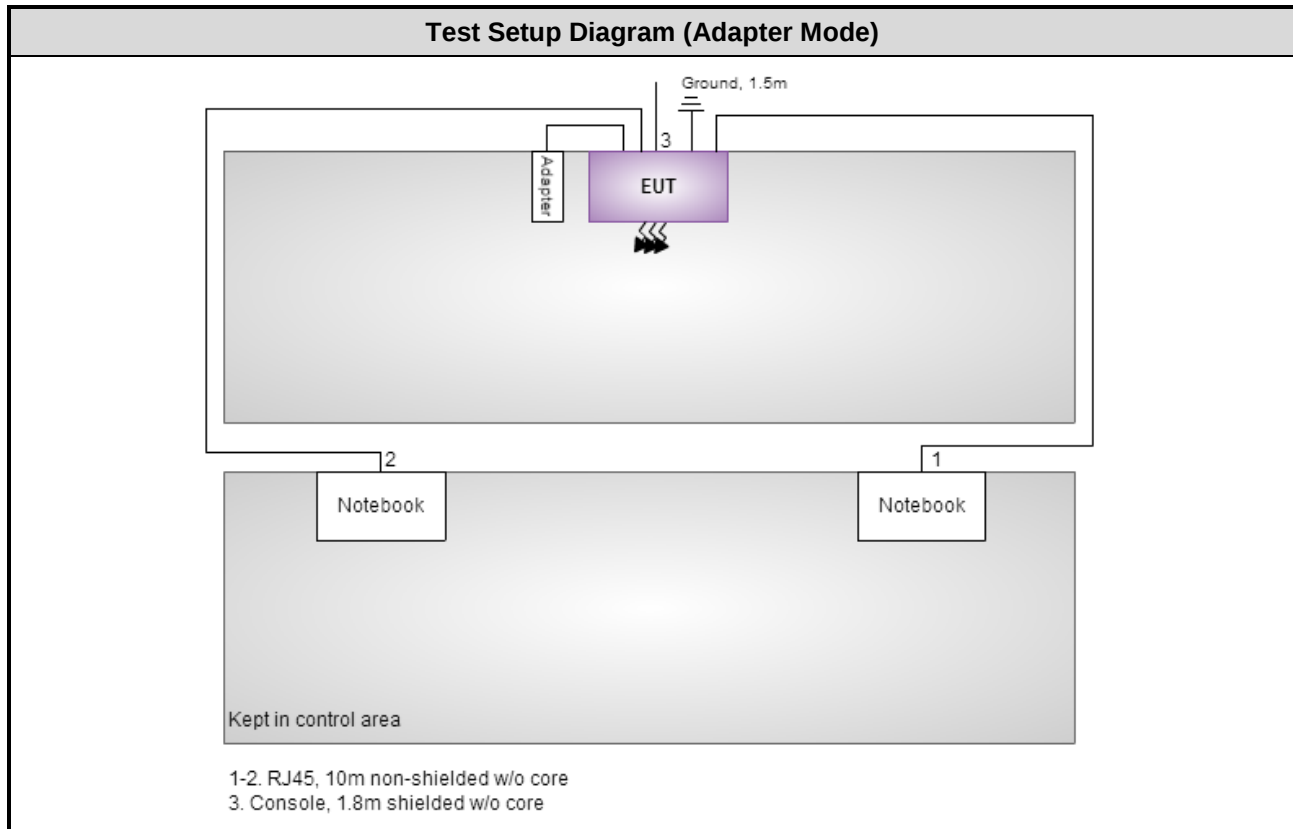
Note: No. 3 was provided by applicant.

Support Equipment List (POE Mode)					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E5430	C0GB4X1	RJ45, 10m non-shielded w/o core.
2	Notebook	DELL	Latitude E5430	9ZFB4X1	RJ45, 1m non-shielded w/o core.
3	POE Injector	ZyXEL	PoE12-HP	---	RJ45, 10m non-shielded w/o core.
4	POE Injector	PowerDsine 3001GC	E018205D G	---	RJ45, 10m non-shielded w/o core.

Note:

- 1) No. 3 & 4 were provided by applicant.
- 2) No. 3 was for radiated emission test used.
- 3) No. 4 was for conducted emission test used.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
EMC Receiver	R&S	ESCS 30	100132	Nov. 14, 2013	Nov. 13, 2014
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 23, 2014	Apr. 22, 2015
50 ohm terminal (Support Unit)	NA	50	04	Apr. 18, 2014	Apr. 17, 2015
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 2 / (03CH02-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Feb. 08, 2014	Feb. 07, 2015
Receiver	R&S	ESR3	101657	Jan. 18, 2014	Jan. 17, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-524	Jan. 08, 2014	Jan. 07, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Jan. 07, 2014	Jan. 06, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014
Preamplifier	Burgeon	BPA-530	100218	Dec. 09, 2013	Dec. 08, 2014
Preamplifier	Agilent	83017A	MY39501309	Sep. 29, 2014	Sep. 28, 2015
Preamplifier	EMC	EMC184045B	980192	Aug. 26, 2014	Aug. 25, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 17, 2013	Dec. 16, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 17, 2013	Dec. 16, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 17, 2013	Dec. 16, 2014
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Dec. 17, 2013	Dec. 16, 2014
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-004	Dec. 17, 2013	Dec. 16, 2014
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

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

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 16, 2014	Sep. 15, 2015
Receiver	Agilent	N9038A	MY53290044	Jan. 08, 2014	Jan. 07, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-562	Feb. 07, 2014	Feb. 06, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 20, 2014	Feb. 19, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014
Preamplifier	EMC	EMC02325	980187	Nov. 22, 2013	Nov. 21, 2014
Preamplifier	Agilent	83017A	MY53270014	Sep. 17, 2014	Sep. 16, 2015
Preamplifier	EMC	EMC184045B	980192	Aug. 26, 2014	Aug. 25, 2015
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 19, 2014	Feb. 18, 2015
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22601/4	Feb. 19, 2014	Feb. 18, 2015
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 19, 2014	Feb. 18, 2015
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 17, 2014	Feb. 16, 2015
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 17, 2014	Feb. 16, 2015
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 17, 2014	Feb. 16, 2015
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

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

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2014	Feb. 16, 2015
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 11, 2013	Dec. 10, 2014
Power Meter	Anritsu	ML2495A	1241001	Sep. 11, 2014	Sep. 10, 2015
Power Sensor	Anritsu	MA2411B	1207362	Sep. 12, 2014	Sep. 11, 2015
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

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

47 CFR FCC Part 15.407

ANSI C63.10-2009

FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04

FCC KDB 644545 D01 Guidance for IEEE 802.11ac v01r02

FCC KDB 644545 D02 Alternative Guidance for 802.11ac v01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.6 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.134 Hz
Conducted power	±0.808 dB
Frequency error	±34.134 Hz
Temperature	±0.6 °C
Conducted emission	±2.670 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.26 dB
Radiated emission > 1GHz	±4.94 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	20°C / 61%	Skys Huang
Radiated Emissions	03CH02-WS 03CH03-WS	21-25°C / 62-69%	Haru Yang Aska Huang Anderson Hung York Lin Lance Xiao
RF Conducted	TH01-WS	21°C / 64%	Brad Wu

➤ FCC site registration No.: 657002 / 390588

➤ IC site registration No.: 10807A-2 / 10807C-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT40	5670	MCS 0	1, 2, 3, 4
Radiated Emissions $\leq 1\text{GHz}$	VHT40	5670	MCS 0	1, 2, 3, 4
RF Output Power	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	3
	HT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	HT40	5270 / 5310 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Radiated Emissions $>1\text{GHz}$	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	1, 3
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Emission Bandwidth Peak Power Spectral Density	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	3
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Peak Excursion	11a	5320 / 5500	6 Mbps	3
	VHT20	5300 / 5700	MCS 0	
	VHT40	5270 / 5670	MCS 0	
	VHT80	5290 / 5690	MCS 0	
Frequency Stability	Un-modulation	5320	---	3

NOTE:

1. This device can be powered by **AC adapter** or **POE**. Each power supply was selected for final testing as below configuration.
2. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.
3. Test configurations are listed as below:
 - 1) Configuration 1: model WAC6502D-S, AC Adapter mode
 - 2) Configuration 2: model WAC6502D-S, POE mode
 - 3) Configuration 3: model WAC6502D-E, AC Adapter mode
 - 4) Configuration 4: model WAC6502D-E, POE mode

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

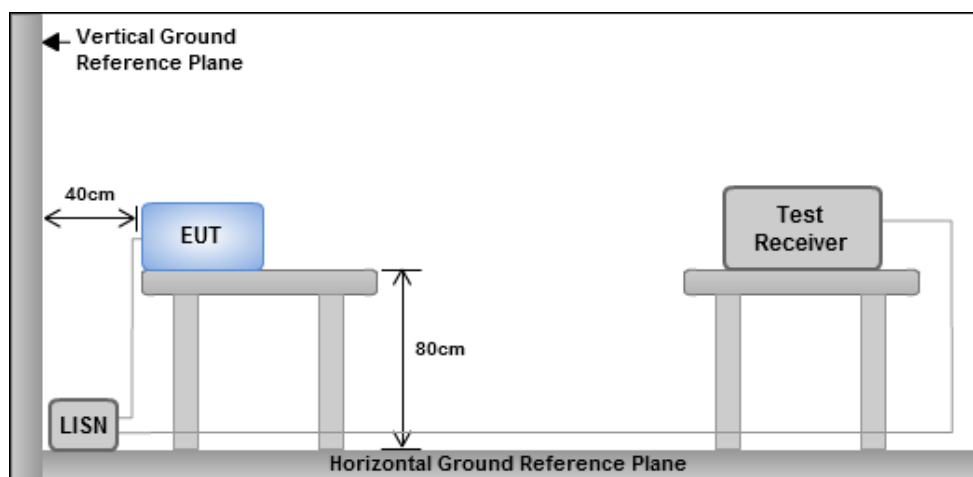
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Test Procedures

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

3.1.3 Test Setup

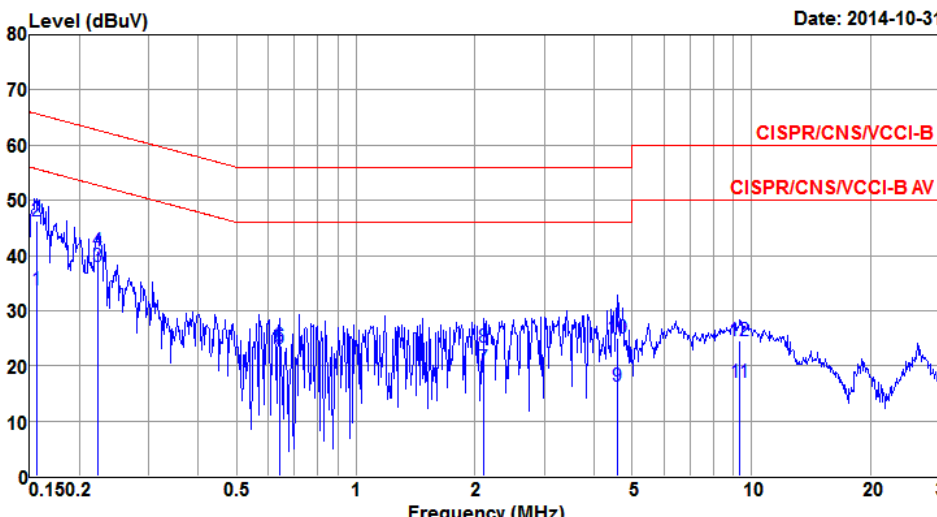


- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Line	Test Configuration	1

Level (dBuV)



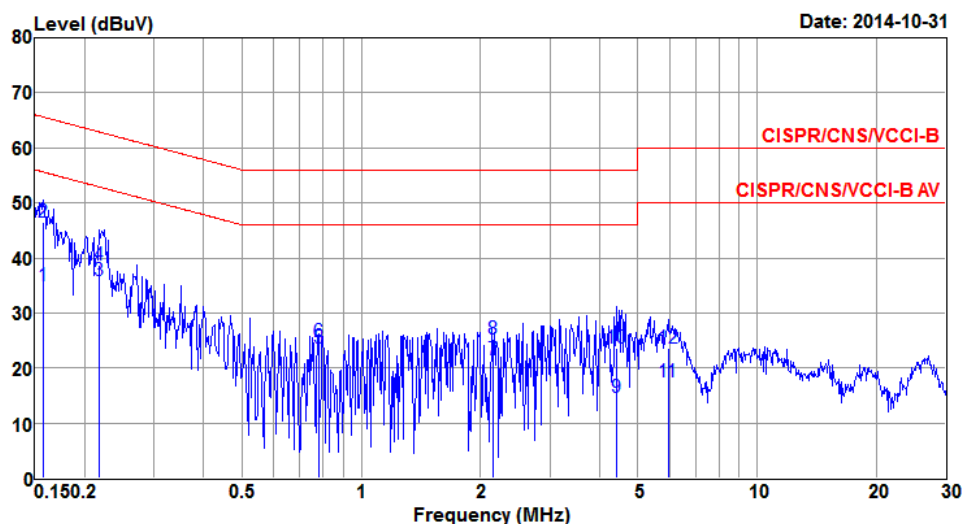
Frequency (MHz)

Date: 2014-10-31

	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.156	33.87	55.69	-21.82	33.44	0.41	0.02	Average
2	0.156	46.16	65.69	-19.53	45.73	0.41	0.02	QP
3*	0.222	37.99	52.74	-14.75	37.54	0.44	0.01	Average
4	0.222	40.76	62.74	-21.98	40.31	0.44	0.01	QP
5	0.641	23.15	46.00	-22.85	22.50	0.63	0.02	Average
6	0.641	23.54	56.00	-32.46	22.89	0.63	0.02	QP
7	2.110	19.65	46.00	-26.35	18.61	1.01	0.03	Average
8	2.110	23.30	56.00	-32.70	22.26	1.01	0.03	QP
9	4.575	16.30	46.00	-29.70	14.98	1.16	0.16	Average
10	4.575	24.96	56.00	-31.04	23.64	1.16	0.16	QP
11	9.352	16.95	50.00	-33.05	15.06	1.65	0.24	Average
12	9.352	24.64	60.00	-35.36	22.75	1.65	0.24	QP

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

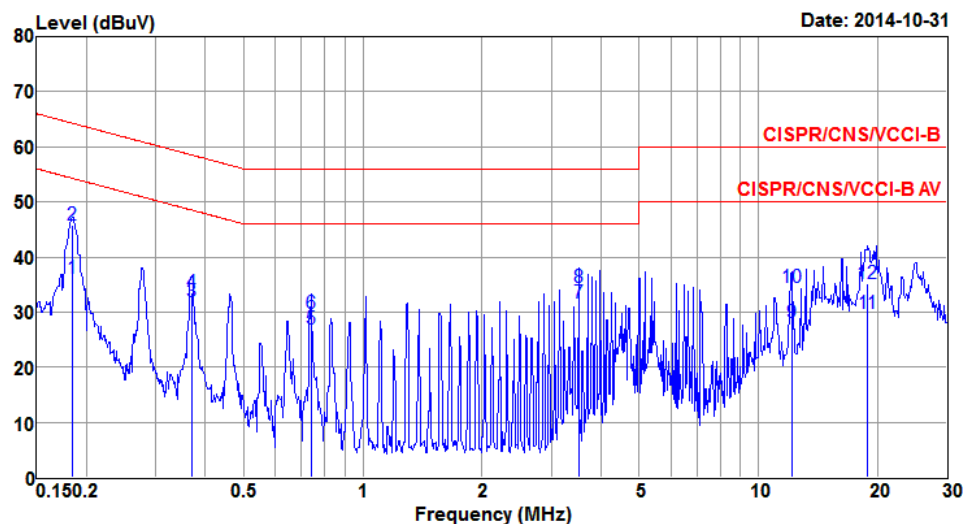
Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Neutral	Test Configuration	1



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.157	35.01	55.60	-20.59	34.50	0.49	0.02	Average
2	0.157	46.48	65.60	-19.12	45.97	0.49	0.02	QP
3*	0.217	35.90	52.92	-17.02	35.37	0.52	0.01	Average
4	0.217	38.76	62.92	-24.16	38.23	0.52	0.01	QP
5	0.779	23.72	46.00	-22.28	22.95	0.75	0.02	Average
6	0.779	24.68	56.00	-31.32	23.91	0.75	0.02	QP
7	2.152	21.38	46.00	-24.62	20.26	1.09	0.03	Average
8	2.152	25.31	56.00	-30.69	24.19	1.09	0.03	QP
9	4.407	14.74	46.00	-31.26	13.39	1.19	0.16	Average
10	4.407	23.63	56.00	-32.37	22.28	1.19	0.16	QP
11	5.961	17.46	50.00	-32.54	15.88	1.39	0.19	Average
12	5.961	23.70	60.00	-36.30	22.12	1.39	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).

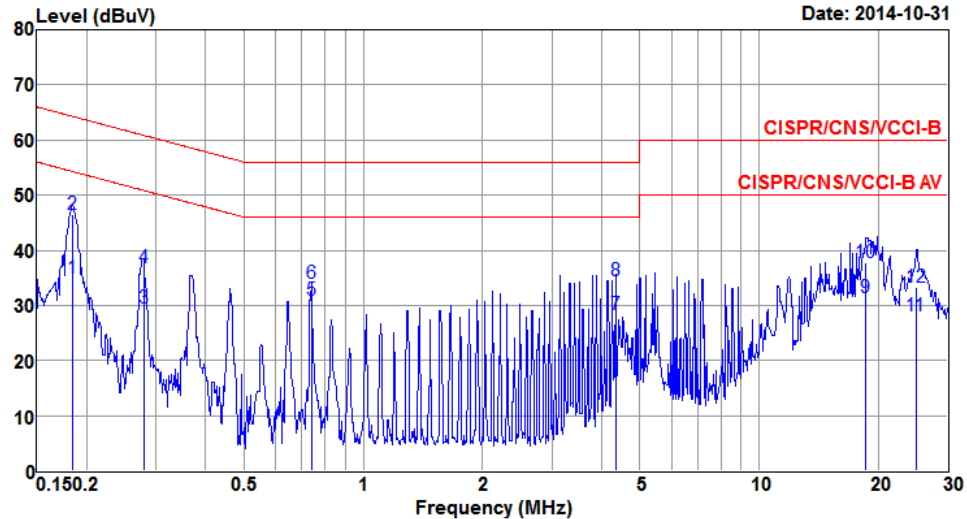
Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Line	Test Configuration	2



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.185	36.05	54.27	-18.22	35.65	0.39	0.01	Average
2	0.185	45.78	64.27	-18.49	45.38	0.39	0.01	QP
3	0.371	31.80	48.49	-16.69	31.39	0.39	0.02	Average
4	0.371	33.47	58.49	-25.02	33.06	0.39	0.02	QP
5	0.739	26.86	46.00	-19.14	26.44	0.40	0.02	Average
6	0.739	29.82	56.00	-26.18	29.40	0.40	0.02	QP
7*	3.515	31.54	46.00	-14.46	30.96	0.45	0.13	Average
8	3.515	34.40	56.00	-21.60	33.82	0.45	0.13	QP
9	12.210	28.07	50.00	-21.93	27.25	0.54	0.28	Average
10	12.210	34.45	60.00	-25.55	33.63	0.54	0.28	QP
11	18.925	29.74	50.00	-20.26	28.81	0.55	0.38	Average
12	18.925	35.23	60.00	-24.77	34.30	0.55	0.38	QP

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

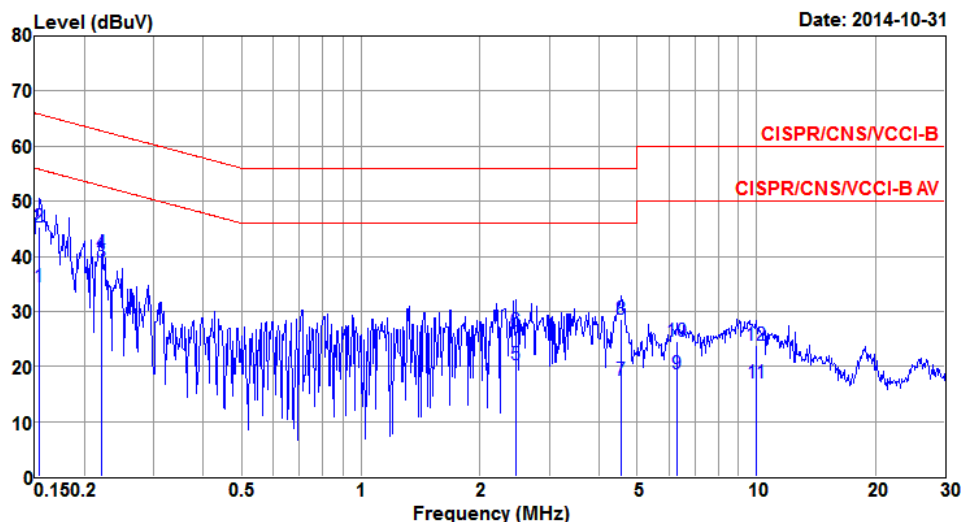
Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Neutral	Test Configuration	2



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.184	34.92	54.28	-19.36	34.43	0.48	0.01	Average
2	0.184	46.61	64.28	-17.67	46.12	0.48	0.01	QP
3	0.279	29.54	50.86	-21.32	29.05	0.48	0.01	Average
4	0.279	36.84	60.86	-24.02	36.35	0.48	0.01	QP
5*	0.739	30.88	46.00	-15.12	30.38	0.48	0.02	Average
6	0.739	34.02	56.00	-21.98	33.52	0.48	0.02	QP
7	4.343	28.33	46.00	-17.67	27.65	0.52	0.16	Average
8	4.343	34.48	56.00	-21.52	33.80	0.52	0.16	QP
9	18.621	31.31	50.00	-18.69	30.37	0.56	0.38	Average
10	18.621	37.67	60.00	-22.33	36.73	0.56	0.38	QP
11	24.925	28.20	50.00	-21.80	27.22	0.53	0.45	Average
12	24.925	33.30	60.00	-26.70	32.32	0.53	0.45	QP

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

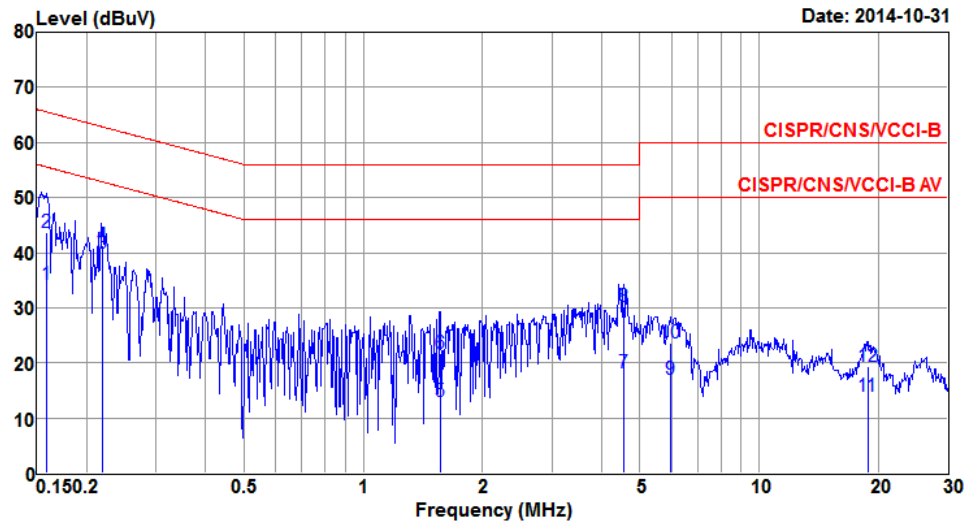
Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Line	Test Configuration	3



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line dBuV	Limit dB	Level dBuV	factor dB	loss dB	
1	0.154	34.45	55.78	-21.33	34.02	0.41	0.02	Average
2	0.154	45.27	65.78	-20.51	44.84	0.41	0.02	QP
3*	0.221	38.94	52.79	-13.85	38.49	0.44	0.01	Average
4	0.221	40.49	62.79	-22.30	40.04	0.44	0.01	QP
5	2.474	20.22	46.00	-25.78	19.13	1.03	0.06	Average
6	2.474	26.36	56.00	-29.64	25.27	1.03	0.06	QP
7	4.550	17.48	46.00	-28.52	16.17	1.15	0.16	Average
8	4.550	28.51	56.00	-27.49	27.20	1.15	0.16	QP
9	6.285	18.73	50.00	-31.27	17.15	1.38	0.20	Average
10	6.285	24.50	60.00	-35.50	22.92	1.38	0.20	QP
11	10.019	17.03	50.00	-32.97	15.08	1.70	0.25	Average
12	10.019	23.95	60.00	-36.05	22.00	1.70	0.25	QP

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

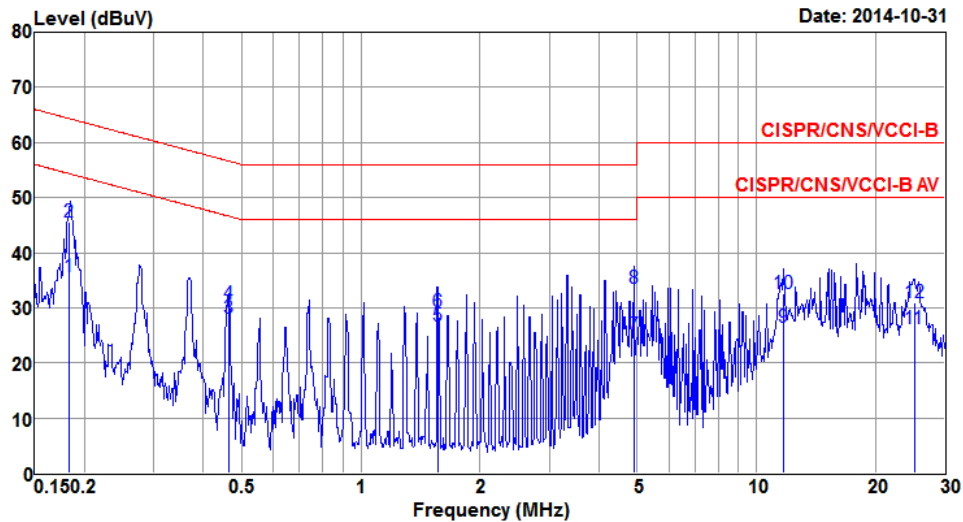
Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Neutral	Test Configuration	3



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.158	34.15	55.56	-21.41	33.64	0.49	0.02	Average
2	0.158	43.69	65.56	-21.87	43.18	0.49	0.02	QP
3*	0.219	39.95	52.86	-12.91	39.42	0.52	0.01	Average
4	0.219	41.22	62.86	-21.64	40.69	0.52	0.01	QP
5	1.568	12.90	46.00	-33.10	11.89	0.99	0.02	Average
6	1.568	21.82	56.00	-34.18	20.81	0.99	0.02	QP
7	4.549	18.15	46.00	-27.85	16.78	1.21	0.16	Average
8	4.549	30.27	56.00	-25.73	28.90	1.21	0.16	QP
9	5.961	16.93	50.00	-33.07	15.35	1.39	0.19	Average
10	5.961	23.66	60.00	-36.34	22.08	1.39	0.19	QP
11	18.820	13.93	50.00	-36.07	11.02	2.53	0.38	Average
12	18.820	19.47	60.00	-40.53	16.56	2.53	0.38	QP

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

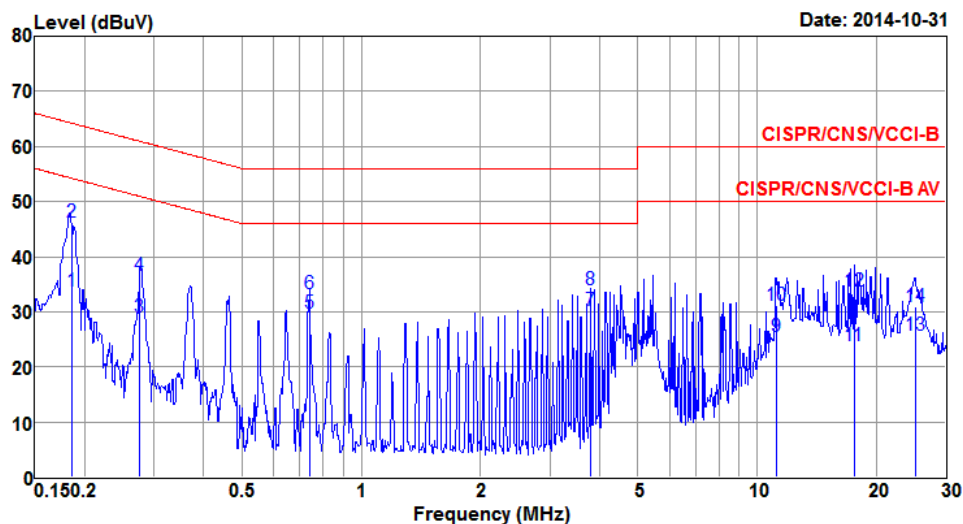
Modulation	VHT40	Test Freq. (MHz)	5670
Power Phase	Line	Test Configuration	4



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.183	35.71	54.34	-18.63	35.31	0.39	0.01	Average
2	0.183	45.55	64.34	-18.79	45.15	0.39	0.01	QP
3*	0.462	28.15	46.65	-18.50	27.74	0.39	0.02	Average
4	0.462	30.71	56.65	-25.94	30.30	0.39	0.02	QP
5	1.570	26.62	46.00	-19.38	26.18	0.42	0.02	Average
6	1.570	29.26	56.00	-26.74	28.82	0.42	0.02	QP
7	4.896	25.04	46.00	-20.96	24.39	0.48	0.17	Average
8	4.896	33.43	56.00	-22.57	32.78	0.48	0.17	QP
9	11.732	26.43	50.00	-23.57	25.62	0.54	0.27	Average
10	11.732	32.67	60.00	-27.33	31.86	0.54	0.27	QP
11	25.055	26.09	50.00	-23.91	25.09	0.55	0.45	Average
12	25.055	31.02	60.00	-28.98	30.02	0.55	0.45	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	Test Configuration	4



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.186	33.85	54.23	-20.38	33.36	0.48	0.01	Average
2	0.186	46.27	64.23	-17.96	45.78	0.48	0.01	QP
3	0.276	28.93	50.94	-22.01	28.44	0.48	0.01	Average
4	0.276	36.64	60.94	-24.30	36.15	0.48	0.01	QP
5	0.739	29.67	46.00	-16.33	29.17	0.48	0.02	Average
6	0.739	33.23	56.00	-22.77	32.73	0.48	0.02	QP
7*	3.791	30.23	46.00	-15.77	29.57	0.52	0.14	Average
8	3.791	33.96	56.00	-22.04	33.30	0.52	0.14	QP
9	11.190	25.40	50.00	-24.60	24.57	0.56	0.27	Average
10	11.190	31.07	60.00	-28.93	30.24	0.56	0.27	QP
11	17.570	23.84	50.00	-26.16	22.92	0.56	0.36	Average
12	17.570	33.65	60.00	-26.35	32.73	0.56	0.36	QP
13	25.055	25.84	50.00	-24.16	24.86	0.53	0.45	Average
14	25.055	30.94	60.00	-29.06	29.96	0.53	0.45	QP

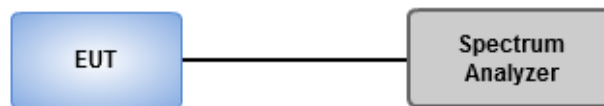
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 Emission Bandwidth

3.2.1 Test Procedures

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.

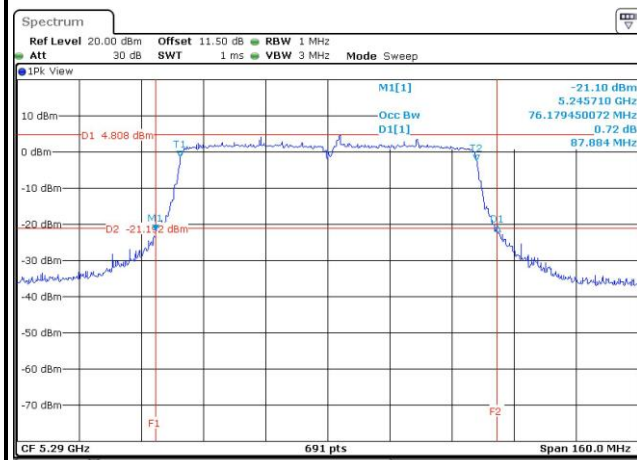
3.2.2 Test Setup



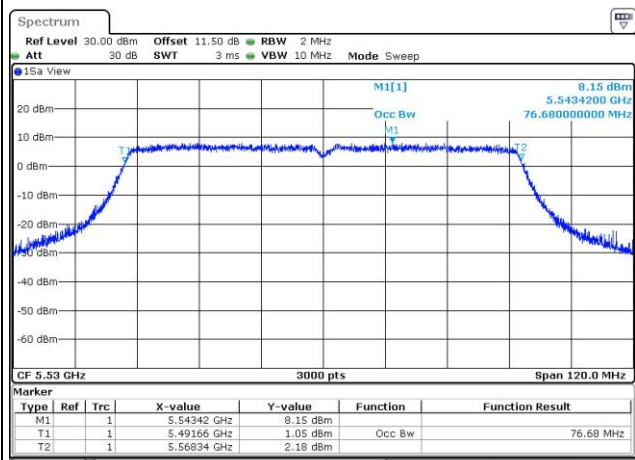
3.2.3 Test Result of Emission Bandwidth

Emission Bandwidth												
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)	
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	26dB BW	99%OBW
11a	2	5260	22.26	22.14	--	--	16.63	16.75	--	--	24.00	23.21
11a	2	5300	22.26	21.57	--	--	16.64	16.73	--	--	24.00	23.21
11a	2	5320	22.14	21.62	--	--	16.80	16.64	--	--	24.00	23.21
VHT20	2	5260	22.67	23.94	--	--	17.83	17.85	--	--	24.00	23.51
VHT20	2	5300	22.55	23.19	--	--	17.86	17.85	--	--	24.00	23.52
VHT20	2	5320	23.30	23.54	--	--	17.87	17.82	--	--	24.00	23.51
VHT40	2	5270	46.61	45.91	--	--	36.76	36.82	--	--	24.00	24.00
VHT40	2	5310	46.03	46.49	--	--	36.76	36.80	--	--	24.00	24.00
VHT80	2	5290	87.88	86.26	--	--	76.56	76.48	--	--	24.00	24.00
11a	2	5500	22.67	22.20	--	--	16.75	16.63	--	--	24.00	23.21
11a	2	5580	22.26	21.91	--	--	16.77	16.65	--	--	24.00	23.21
11a	2	5700	21.91	22.03	--	--	16.71	16.66	--	--	24.00	23.22
VHT20	2	5500	22.43	22.96	--	--	17.88	17.90	--	--	24.00	23.52
VHT20	2	5580	22.84	23.07	--	--	17.89	17.88	--	--	24.00	23.52
VHT20	2	5700	23.07	23.83	--	--	17.85	17.86	--	--	24.00	23.52
VHT40	2	5510	46.03	47.30	--	--	36.70	36.74	--	--	24.00	24.00
VHT40	2	5550	45.57	45.80	--	--	36.88	36.72	--	--	24.00	24.00
VHT40	2	5670	45.91	46.15	--	--	36.72	36.76	--	--	24.00	24.00
VHT80	2	5530	86.49	86.73	--	--	76.68	76.40	--	--	24.00	24.00

Worst Plots of 26dB Bandwidth



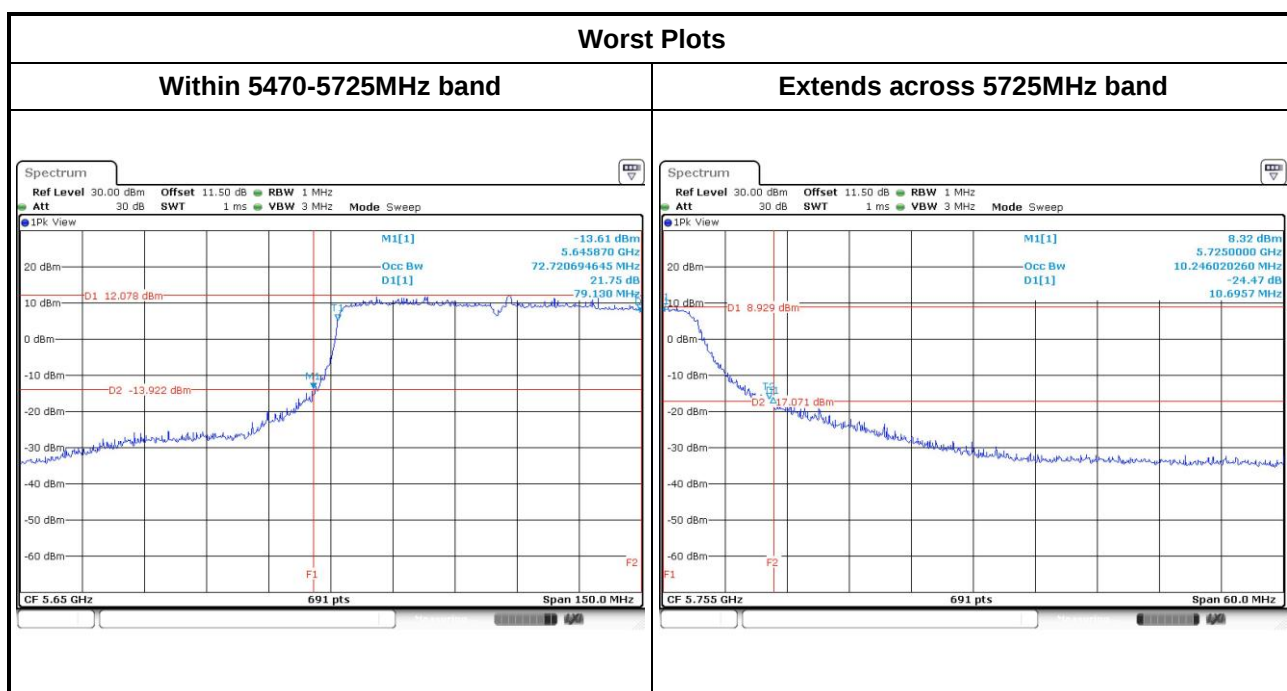
Worst Plots of 99% Bandwidth



Channel that extends across the 5.725 GHz boundary

UNII Emission Bandwidth Result (Within 5470-5725MHz band)												
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)	
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	26dB BW	99% BW
11a	2	5720	16.01	16.14	--	--	13.37	13.37	--	--	23.05	22.26
VHT20	2	5720	16.75	16.26	--	--	13.98	14.00	--	--	23.11	22.46
VHT40	2	5710	38.15	38.04	--	--	33.32	33.32	--	--	24.00	24.00
VHT80	2	5690	79.13	79.13	--	--	72.55	72.55	--	--	24.00	24.00

UNII Emission Bandwidth Result (Extends across 5725MHz band)												
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)	
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	26dB BW	99% BW
11a	2	5720	6.17	6.13	--	--	4.33	4.38	--	--	24.87	23.36
VHT20	2	5720	6.91	6.85	--	--	4.63	4.69	--	--	25.36	23.66
VHT40	2	5710	8.93	9.16	--	--	6.31	6.13	--	--	26.51	24.88
VHT80	2	5690	10.70	10.26	--	--	8.84	8.94	--	--	27.11	26.46



3.3 RF Output Power

3.3.1 Limit of RF Output Power

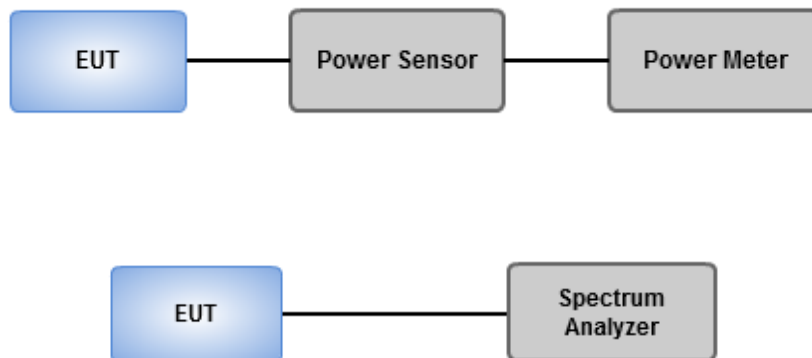
Frequency Band (GHz)		Limit for FCC 15.407
☐	5.15~5.25	50mW or 4dBm+10 log B
☒	5.25~5.35	250mW or 11dBm+10 log B
☒	5.47~5.725	250mW or 11dBm+10 log B

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

3.3.2 Test Procedures

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

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

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	2	5260	17.12	16.56	--	--	96.813	19.86	23.00
11a	2	5300	17.02	16.45	--	--	94.507	19.75	23.00
11a	2	5320	17.21	16.74	--	--	99.808	19.99	23.00
HT20	2	5260	17.14	16.52	--	--	96.635	19.85	23.00
HT20	2	5300	17.35	16.84	--	--	102.631	20.11	23.00
HT20	2	5320	17.21	16.82	--	--	100.686	20.03	23.00
HT40	2	5270	20.06	19.42	--	--	188.890	22.76	23.00
HT40	2	5310	15.64	15.31	--	--	70.606	18.49	23.00
VHT20	2	5260	17.25	16.64	--	--	99.220	19.97	23.00
VHT20	2	5300	17.45	16.96	--	--	105.250	20.22	23.00
VHT20	2	5320	17.32	16.91	--	--	103.042	20.13	23.00
VHT40	2	5270	20.12	19.55	--	--	192.959	22.85	23.00
VHT40	2	5310	15.76	15.43	--	--	72.584	18.61	23.00
VHT80	2	5290	12.72	12.34	--	--	35.846	15.54	23.00

Note: Antenna gain is 7dBi > 6dBi , conducted power limit is reduced to 24 dBm – (7 dBi – 6dBi) = 23 dBm.

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	2	5500	16.88	16.91	--	--	97.844	19.91	23.00
11a	2	5580	16.65	16.78	--	--	93.881	19.73	23.00
11a	2	5700	16.68	16.81	--	--	94.532	19.76	23.00
HT20	2	5500	16.72	16.81	--	--	94.963	19.78	23.00
HT20	2	5580	16.95	17.04	--	--	100.127	20.01	23.00
HT20	2	5700	17.15	17.22	--	--	104.603	20.20	23.00
HT40	2	5510	15.54	15.76	--	--	73.480	18.66	23.00
HT40	2	5550	19.44	19.72	--	--	181.658	22.59	23.00
HT40	2	5670	19.51	19.92	--	--	187.505	22.73	23.00
VHT20	2	5500	16.84	16.98	--	--	98.194	19.92	23.00
VHT20	2	5580	17.04	17.15	--	--	102.462	20.11	23.00
VHT20	2	5700	17.21	17.35	--	--	106.927	20.29	23.00
VHT40	2	5510	15.65	15.89	--	--	75.543	18.78	23.00
VHT40	2	5550	19.56	19.85	--	--	186.970	22.72	23.00
VHT40	2	5670	19.62	20.06	--	--	193.013	22.86	23.00
VHT80	2	5530	12.41	12.49	--	--	35.160	15.46	23.00

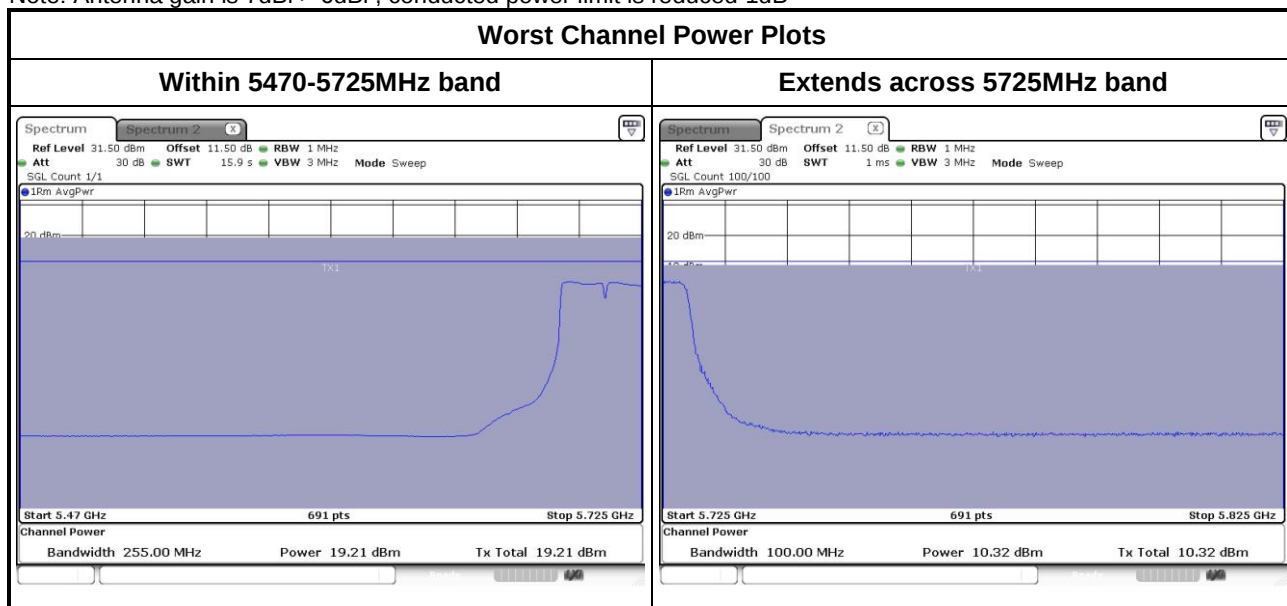
Note: Antenna gain is 7dBi > 6dBi , conducted power limit is reduced to 24 dBm – (7 dBi – 6dBi) = 23 dBm.

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)				
11a	2	5720	15.30	15.13	---	---	18.23	0.00	66.468	18.23	22.05
HT20	2	5720	15.68	15.38	---	---	18.54	0.00	71.497	18.54	22.11
HT40	2	5710	18.86	19.00	---	---	21.94	0.25	165.610	22.19	23.00
VHT20	2	5720	15.79	15.45	---	---	18.63	0.00	73.007	18.63	22.11
VHT40	2	5710	18.95	19.21	---	---	22.09	0.24	171.090	22.33	23.00
VHT80	2	5690	18.82	19.13	---	---	21.99	0.13	162.857	22.12	23.00

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	2	5720	9.45	9.27	---	---	12.37	0.00	17.263	12.37	23.87
HT20	2	5720	10.12	10.15	---	---	13.15	0.00	20.632	13.15	24.36
HT40	2	5710	8.26	8.34	---	---	11.31	0.25	14.323	11.56	25.51
VHT20	2	5720	10.32	10.16	---	---	13.25	0.00	21.140	13.25	24.36
VHT40	2	5710	8.28	8.63	---	---	11.47	0.24	14.821	11.71	25.51
VHT80	2	5690	4.19	4.24	---	---	7.23	0.13	5.439	7.36	26.11

Note: Antenna gain is 7dBi > 6dBi , conducted power limit is reduced 1dB



Note: Above plots are without duty factor.

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

	Frequency Band (GHz)	Limit (dBm)
☐	5.15~5.25	4
☒	5.25~5.35	11
☒	5.47~5.725	11

3.4.2 Test Procedures

☒ Method SA-1 (For 11a / 11ac VHT20)

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.

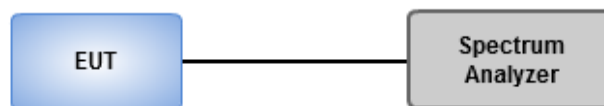
☐ Method SA-2

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{symbol period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.

☒ Method SA-2 Alternative (For 11ac VHT40 / VHT80)

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

3.4.3 Test Setup



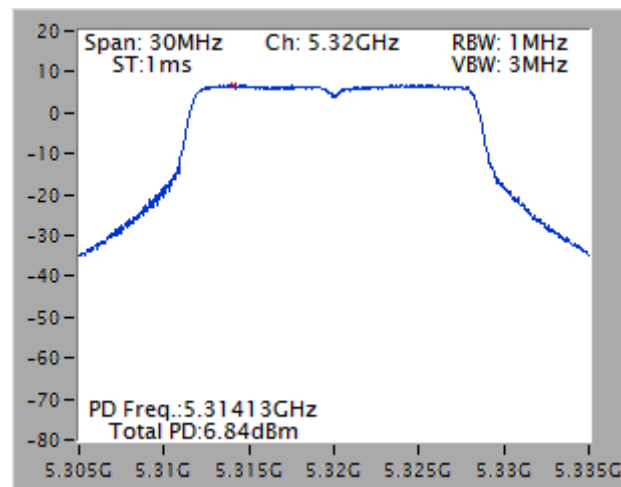
3.4.4 Test Result of Peak Power Spectral Density

Condition			Peak Power Spectral Density (dBm)			
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm)	Duty Factor (dB)	PPSD with D.F (dBm)	PPSD Limit (dBm)
11a	2	5260	6.49	0.00	6.49	6.99
11a	2	5300	6.64	0.00	6.64	6.99
11a	2	5320	6.84	0.00	6.84	6.99
VHT20	2	5260	6.49	0.00	6.49	6.99
VHT20	2	5300	6.68	0.00	6.68	6.99
VHT20	2	5320	6.47	0.00	6.47	6.99
VHT40	2	5270	6.60	0.24	6.84	6.99
VHT40	2	5310	1.80	0.24	2.04	6.99
VHT80	2	5290	-4.75	0.13	-4.62	6.99
11a	2	5500	6.64	0.00	6.64	6.99
11a	2	5580	6.70	0.00	6.70	6.99
11a	2	5700	6.59	0.00	6.59	6.99
11a	2	5720	6.51	0.00	6.51	6.99
VHT20	2	5500	6.58	0.00	6.58	6.99
VHT20	2	5580	6.71	0.00	6.71	6.99
VHT20	2	5700	6.60	0.00	6.60	6.99
VHT20	2	5720	6.63	0.00	6.63	6.99
VHT40	2	5510	2.49	0.24	2.73	6.99
VHT40	2	5550	6.55	0.24	6.79	6.99
VHT40	2	5670	6.22	0.24	6.46	6.99
VHT40	2	5710	6.12	0.24	6.36	6.99
VHT80	2	5530	-4.06	0.13	-3.93	6.99
VHT80	2	5690	3.03	0.13	3.16	6.99

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $7 + 10 \cdot \log(2/1) = 10.01 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $11 \text{ dBm} - (10.01 \text{ dBi} - 6 \text{ dBi}) = 6.99 \text{ dBm}$.

Worst Plots



3.5 Peak Excursion

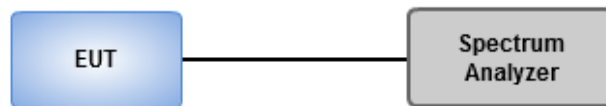
3.5.1 Peak Excursion Limit

Peak excursion of the modulation envelope shall not exceed 13 dB across any 1 MHz bandwidth.

3.5.2 Test Procedures

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = peak.
2. Trace mode = max-hold. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak search function to find the peak of the spectrum.
4. Use the procedure of section 3.4.2 to measure the PPSD.
5. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD

3.5.3 Test Setup



3.5.4 Test Result of Peak Excursion

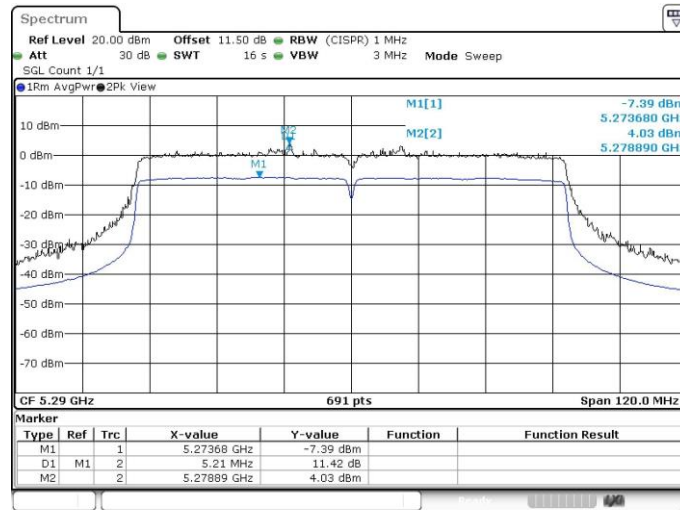
Frequency band 5250-5350 MHz							
Mode	Modulation Mode	N _{TX}	Freq. (MHz)	Measured Value(dB)	Duty Factor (dB)	Peak Excursion (dB)	Limit
11a	BPSK	2	5320	8.38	0.00	8.38	13
11a	QPSK	2	5320	9.34	0.19	9.15	13
11a	16QAM	2	5320	9.76	0.40	9.36	13
11a	64QAM	2	5320	10.68	0.67	10.01	13
VHT20	BPSK	2	5300	8.12	0.00	8.12	13
VHT20	QPSK	2	5300	9.11	0.20	8.91	13
VHT20	16QAM	2	5300	9.85	0.35	9.50	13
VHT20	64QAM	2	5300	10.7	0.85	9.85	13
VHT20	256QAM	2	5300	10.62	1.06	9.56	13
VHT40	BPSK	2	5270	8.9	0.24	8.66	13
VHT40	QPSK	2	5270	9.62	0.43	9.19	13
VHT40	16QAM	2	5270	10.43	0.79	9.64	13
VHT40	64QAM	2	5270	10.54	1.24	9.30	13
VHT40	256QAM	2	5270	11.8	1.53	10.27	13
VHT80	BPSK	2	5290	11.42	0.13	11.29	13
VHT80	QPSK	2	5290	11.14	0.16	10.98	13
VHT80	16QAM	2	5290	11.12	0.36	10.76	13
VHT80	64QAM	2	5290	10.61	0.67	9.94	13
VHT80	256QAM	2	5290	10.12	0.88	9.24	13

Note: Measured value = Peak-max-hold spectrum to the maximum of the average spectrum for continuous transmission. Since the duty cycle is < 98 %, duty factor is required to average spectrum
Peak exclusion = Measured value – duty factor

Frequency band 5470-5725 MHz							
Mode	Modulation Mode	N _{TX}	Freq. (MHz)	Measured Value(dB)	Duty Factor (dB)	Peak Excursion (dB)	Limit
11a	BPSK	2	5500	9.18	0.00	9.18	13
11a	QPSK	2	5500	9.31	0.19	9.12	13
11a	16QAM	2	5500	9.83	0.40	9.43	13
11a	64QAM	2	5500	10.2	0.67	9.53	13
VHT20	BPSK	2	5700	8.06	0.00	8.06	13
VHT20	QPSK	2	5700	8.76	0.20	8.56	13
VHT20	16QAM	2	5700	10.41	0.35	10.06	13
VHT20	64QAM	2	5700	9.81	0.85	8.96	13
VHT20	256QAM	2	5700	11.29	1.06	10.23	13
VHT40	BPSK	2	5670	9.06	0.24	8.82	13
VHT40	QPSK	2	5670	9.76	0.43	9.33	13
VHT40	16QAM	2	5670	9.92	0.79	9.13	13
VHT40	64QAM	2	5670	10.44	1.24	9.20	13
VHT40	256QAM	2	5670	10.4	1.53	8.87	13
VHT80	BPSK	2	5690	9.38	0.13	9.25	13
VHT80	QPSK	2	5690	10.44	0.16	10.28	13
VHT80	16QAM	2	5690	10.97	0.36	10.61	13
VHT80	64QAM	2	5690	10.24	0.67	9.57	13
VHT80	256QAM	2	5690	10.72	0.88	9.84	13

Note: Measured value = Peak-max-hold spectrum to the maximum of the average spectrum for continuous transmission. Since the duty cycle is < 98 %, duty factor is required to average spectrum
Peak exclusion = Measured value – duty factor

Worst Plots



3.6 Transmitter Radiated and Band Edge Emissions

3.6.1 Limit of Transmitter Radiated and Band Edge Emissions

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.825 GHz	5.715 5.725 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] 5.825 5.835 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

3.6.2 Test Procedures

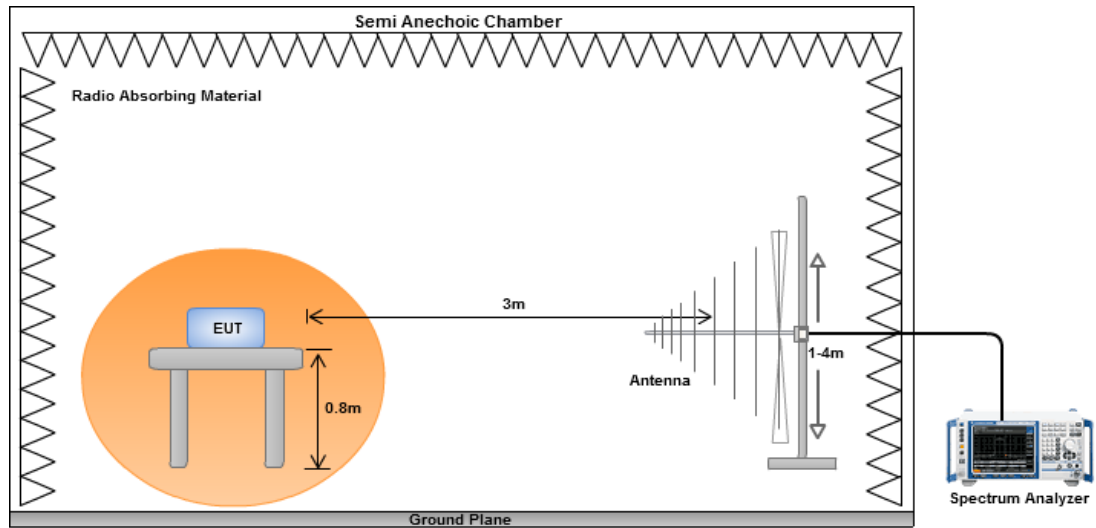
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

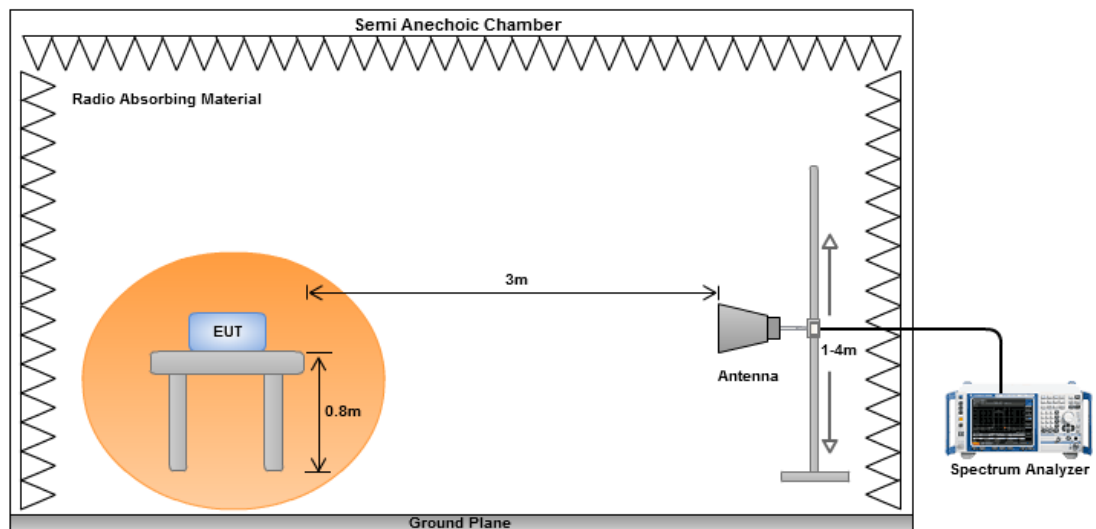
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.6.3 Test Setup

Radiated Emissions below 1 GHz

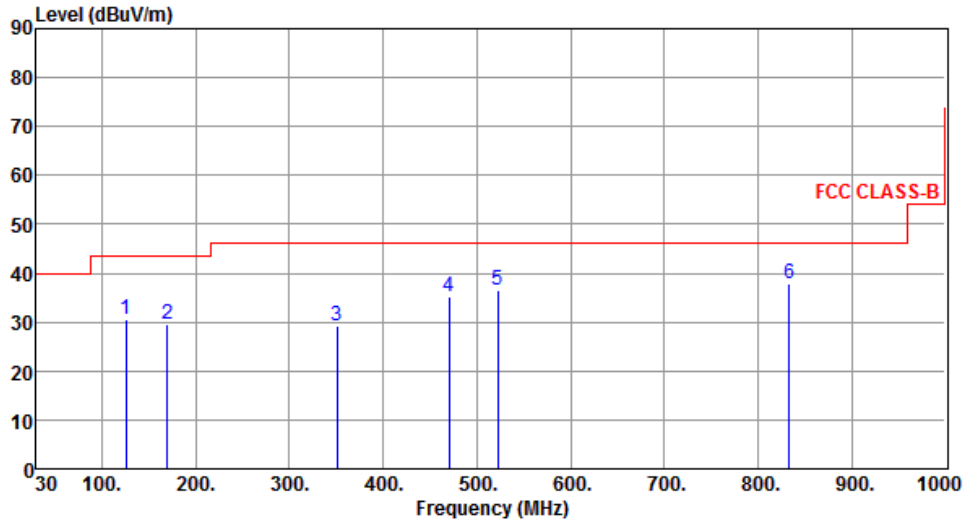


Radiated Emissions above 1 GHz



3.6.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal	Test Configuration	1

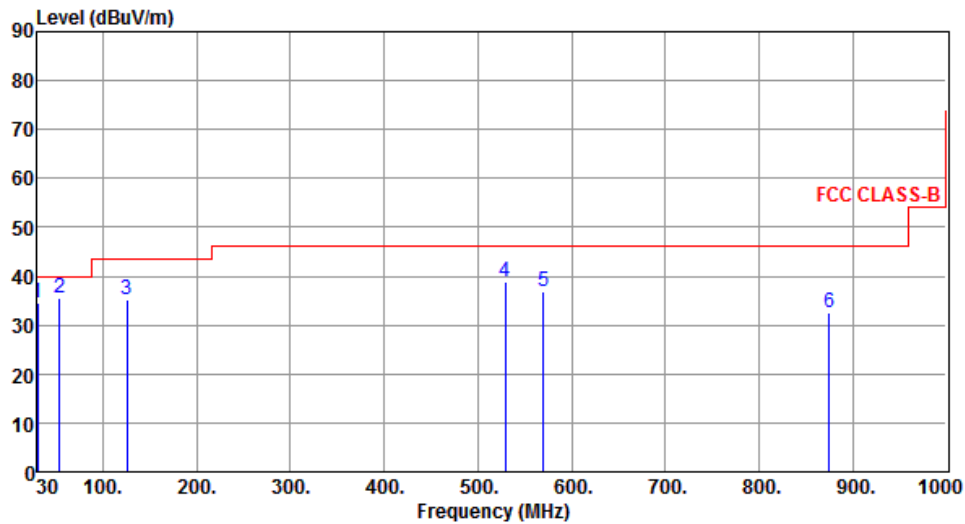


The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the Level in dBuV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 MHz to 100 MHz, 45 dBuV/m from 100 MHz to 1000 MHz, and 55 dBuV/m from 1000 MHz to 10000 MHz. Six measured peaks are labeled with numbers 1 through 6, corresponding to the data in the table below.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	125.56	30.56	43.50	-12.94	45.66	-15.10	Peak	---	---
2	169.37	29.43	43.50	-14.07	43.31	-13.88	Peak	---	---
3	350.42	29.22	46.00	-16.78	40.55	-11.33	Peak	---	---
4	470.54	35.30	46.00	-10.70	43.66	-8.36	Peak	---	---
5	522.16	36.67	46.00	-9.33	44.30	-7.63	Peak	---	---
6	833.41	37.77	46.00	-8.23	39.64	-1.87	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	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.56	34.66	40.00	-5.34	48.64	-13.98	Peak	---	---
2	53.55	35.37	40.00	-4.63	48.54	-13.17	Peak	---	---
3	125.26	35.21	43.50	-8.29	50.34	-15.13	Peak	---	---
4	529.64	38.84	46.00	-7.16	46.36	-7.52	Peak	---	---
5	570.42	36.80	46.00	-9.20	43.31	-6.51	Peak	---	---
6	875.25	32.70	46.00	-13.30	33.85	-1.15	Peak	---	---

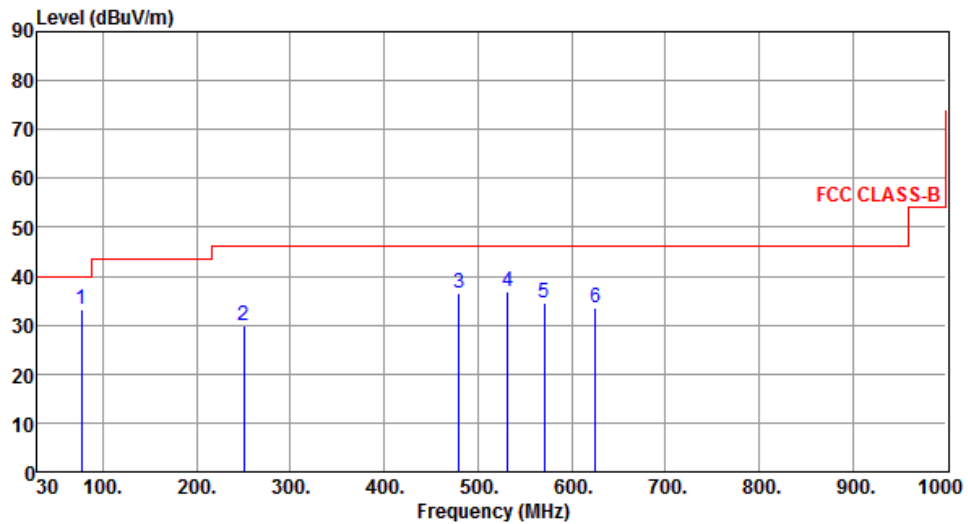
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

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

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	77.26	33.19	40.00	-6.81	50.24	-17.05	Peak	---	---
2	250.34	29.85	46.00	-16.15	44.32	-14.47	Peak	---	---
3	479.65	36.40	46.00	-9.60	44.64	-8.24	Peak	---	---
4	531.56	36.87	46.00	-9.13	44.35	-7.48	Peak	---	---
5	570.68	34.55	46.00	-11.45	41.05	-6.50	Peak	---	---
6	625.44	33.39	46.00	-12.61	38.65	-5.26	Peak	---	---

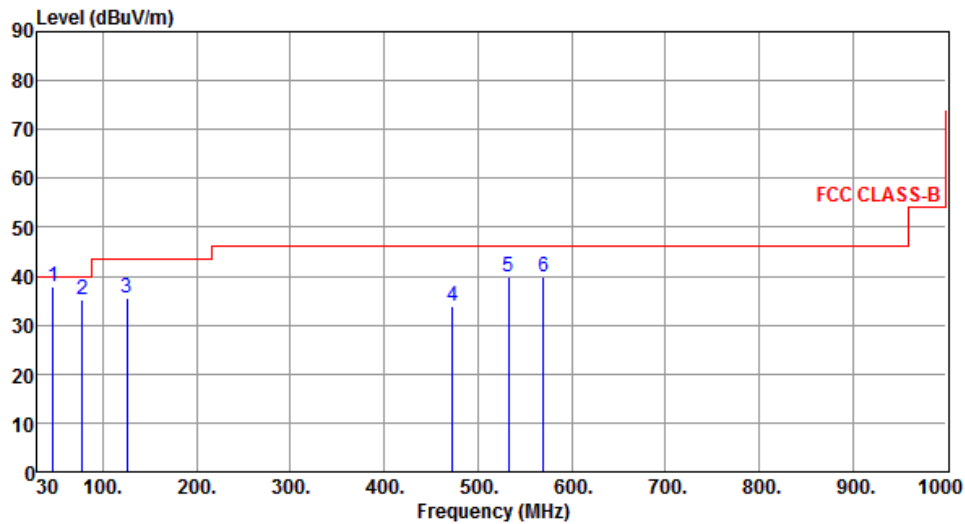
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.60	37.74	40.00	-2.26	50.86	-13.12	Peak	---	---
2	77.65	35.18	40.00	-4.82	52.32	-17.14	Peak	---	---
3	125.62	35.59	43.50	-7.91	50.69	-15.10	Peak	---	---
4	472.66	33.98	46.00	-12.02	42.31	-8.33	Peak	---	---
5	532.42	39.79	46.00	-6.21	47.26	-7.47	Peak	---	---
6	570.26	39.72	46.00	-6.28	46.24	-6.52	Peak	---	---

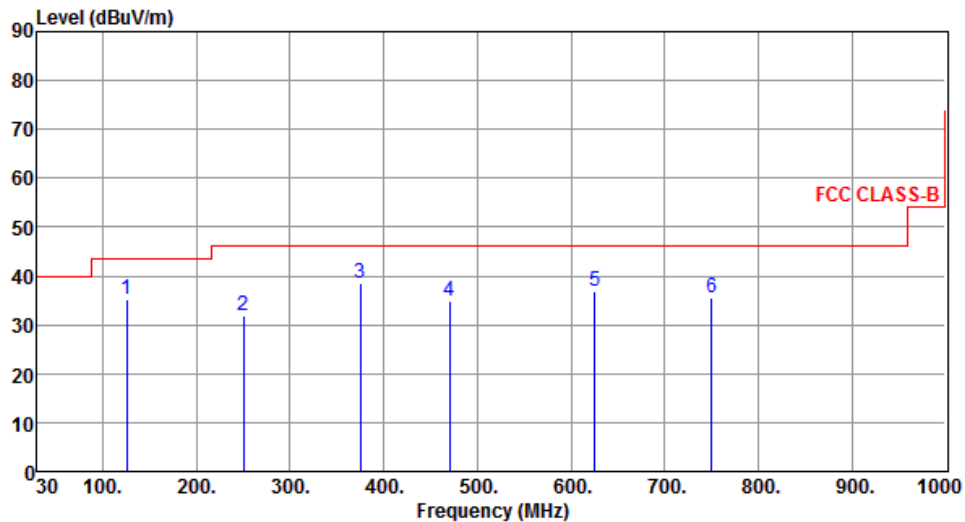
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	125.66	35.15	43.50	-8.35	50.24	-15.09	Peak	---	---
2	250.23	31.77	46.00	-14.23	46.24	-14.47	Peak	---	---
3	375.42	38.56	46.00	-7.44	49.31	-10.75	Peak	---	---
4	470.28	34.85	46.00	-11.15	43.22	-8.37	Peak	---	---
5	625.26	36.95	46.00	-9.05	42.21	-5.26	Peak	---	---
6	750.52	35.47	46.00	-10.53	38.62	-3.15	Peak	---	---

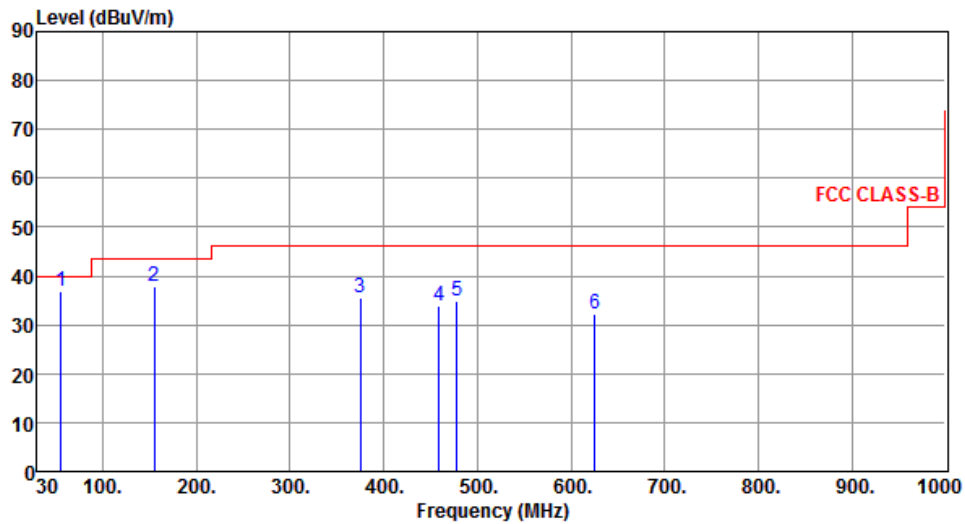
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

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

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

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	55.24	36.85	40.00	-3.15	50.11	-13.26	Peak	---	---
2	155.42	37.86	43.50	-5.64	51.24	-13.38	Peak	---	---
3	375.38	35.56	46.00	-10.44	46.31	-10.75	Peak	---	---
4	459.53	33.75	46.00	-12.25	42.23	-8.48	Peak	---	---
5	478.23	34.75	46.00	-11.25	43.02	-8.27	Peak	---	---
6	625.28	32.18	46.00	-13.82	37.44	-5.26	Peak	---	---

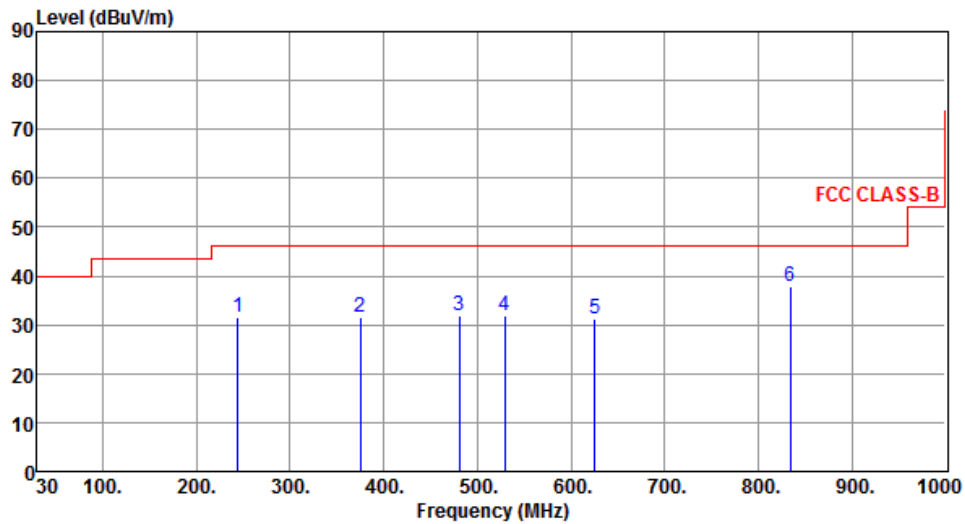
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	Horizontal	Test Configuration	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	244.62	31.61	46.00	-14.39	46.21	-14.60	Peak	---	---
2	375.38	31.46	46.00	-14.54	42.21	-10.75	Peak	---	---
3	480.42	31.97	46.00	-14.03	40.21	-8.24	Peak	---	---
4	529.64	32.01	46.00	-13.99	39.53	-7.52	Peak	---	---
5	625.42	31.22	46.00	-14.78	36.48	-5.26	Peak	---	---
6	834.48	37.77	46.00	-8.23	39.63	-1.86	Peak	---	---

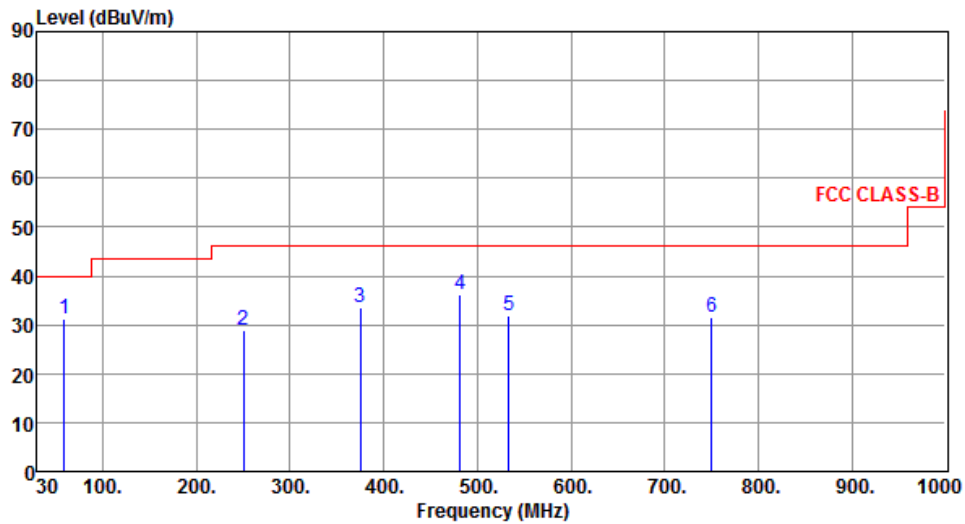
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	Test Configuration	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	58.52	31.08	40.00	-8.92	44.53	-13.45	Peak	---	---
2	250.42	28.85	46.00	-17.15	43.31	-14.46	Peak	---	---
3	375.42	33.46	46.00	-12.54	44.21	-10.75	Peak	---	---
4	481.56	36.08	46.00	-9.92	44.30	-8.22	Peak	---	---
5	533.26	32.00	46.00	-14.00	39.45	-7.45	Peak	---	---
6	750.26	31.48	46.00	-14.52	34.64	-3.16	Peak	---	---

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

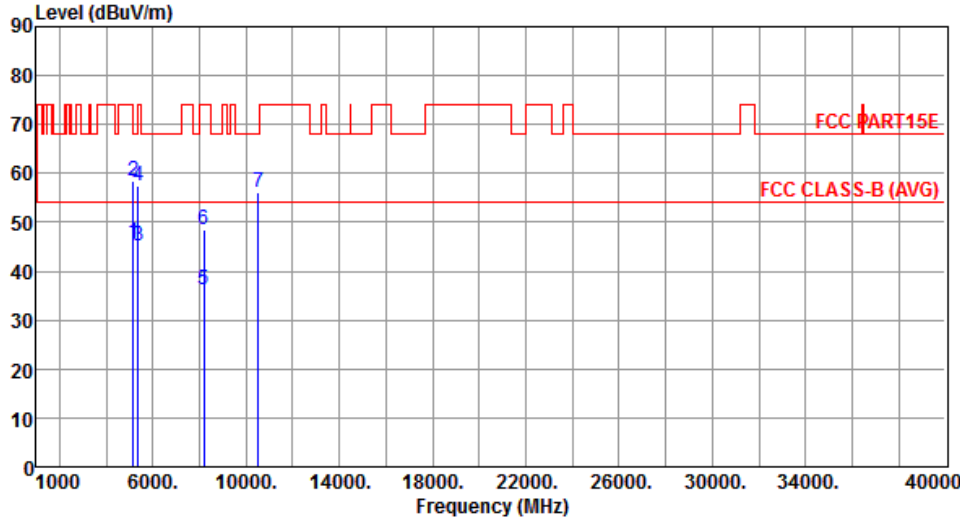
*Factor includes antenna factor , cable loss and amplifier gain

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

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

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

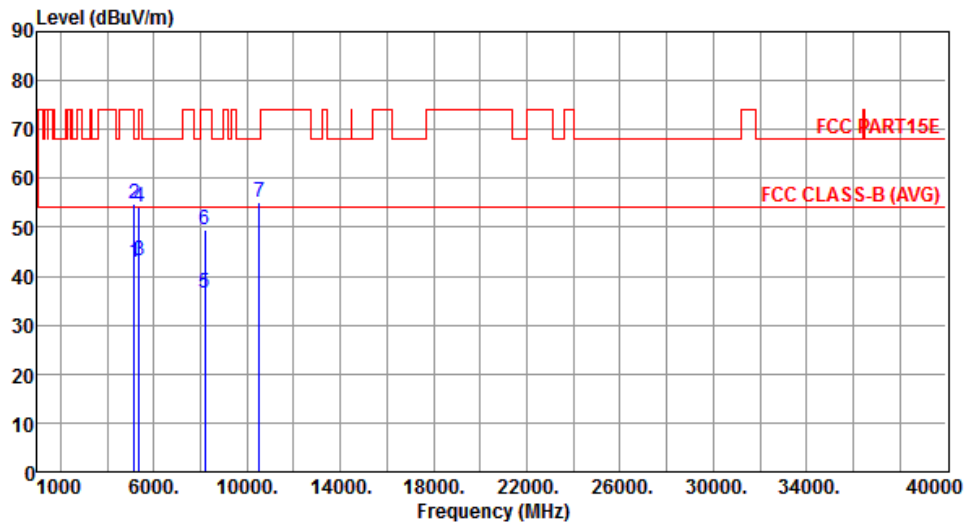
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal	Test Configuration	1



	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	45.76	54.00	-8.24	39.58	6.18	Average	---	---
2	5150.00	58.30	74.00	-15.70	52.12	6.18	Peak	---	---
3	5350.00	45.03	54.00	-8.97	38.52	6.51	Average	---	---
4	5350.00	57.53	74.00	-16.47	51.02	6.51	Peak	---	---
5	8188.00	36.17	54.00	-17.83	24.65	11.52	Average	---	---
6	8188.00	48.56	74.00	-25.44	37.04	11.52	Peak	---	---
7	10520.00	56.17	68.20	-12.03	38.77	17.40	Peak	---	---

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

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical	Test Configuration	1



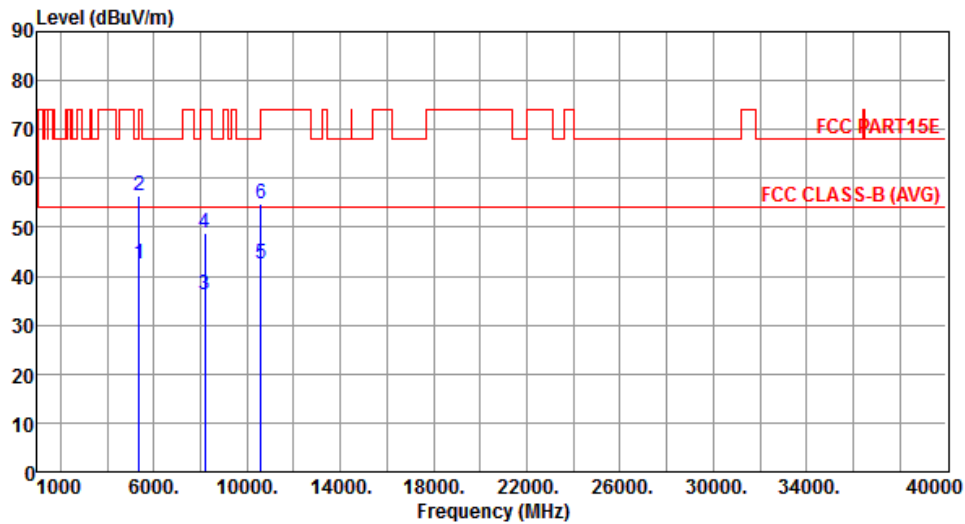
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	42.73	54.00	-11.27	36.55	6.18	Average	---	---
2	5150.00	54.81	74.00	-19.19	48.63	6.18	Peak	---	---
3	5350.00	43.10	54.00	-10.90	36.59	6.51	Average	---	---
4	5350.00	54.11	74.00	-19.89	47.60	6.51	Peak	---	---
5	8188.00	36.39	54.00	-17.61	24.87	11.52	Average	---	---
6	8188.00	49.48	74.00	-24.52	37.96	11.52	Peak	---	---
7	10520.00	55.26	68.20	-12.94	37.86	17.40	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal	Test Configuration	1



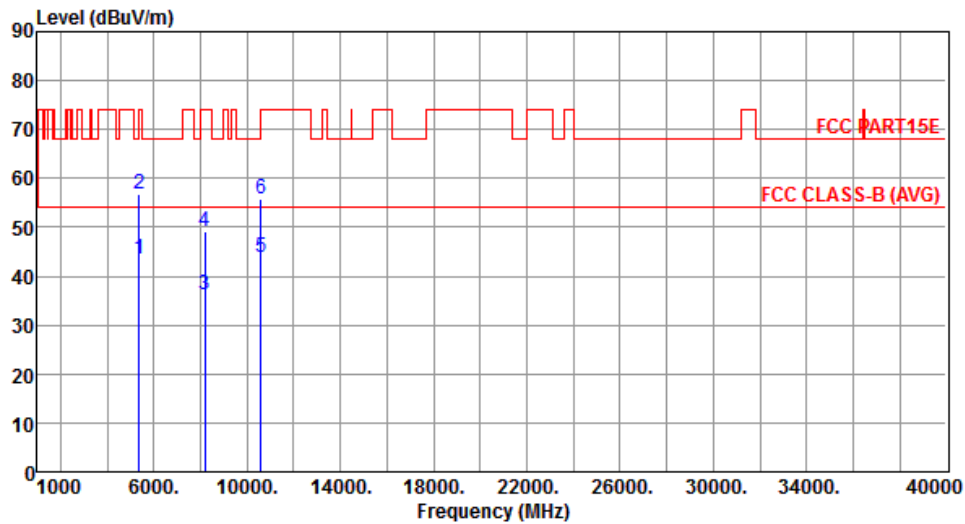
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	42.40	54.00	-11.60	35.89	6.51	Average	---	---
2	5350.00	56.37	74.00	-17.63	49.86	6.51	Peak	---	---
3	8188.00	36.35	54.00	-17.65	24.83	11.52	Average	---	---
4	8188.00	48.71	74.00	-25.29	37.19	11.52	Peak	---	---
5	10600.00	42.54	54.00	-11.46	25.04	17.50	Average	---	---
6	10600.00	54.96	74.00	-19.04	37.46	17.50	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical	Test Configuration	1



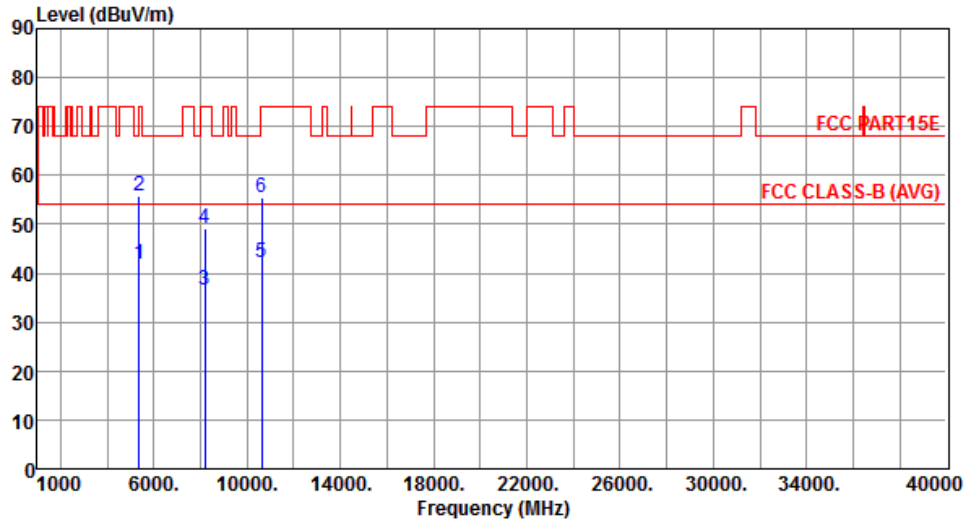
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	43.56	54.00	-10.44	37.05	6.51	Average	---	---
2	5350.00	56.80	74.00	-17.20	50.29	6.51	Peak	---	---
3	8188.00	36.34	54.00	-17.66	24.82	11.52	Average	---	---
4	8188.00	49.26	74.00	-24.74	37.74	11.52	Peak	---	---
5	10600.00	43.75	54.00	-10.25	26.25	17.50	Average	---	---
6	10600.00	55.83	74.00	-18.17	38.33	17.50	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal	Test Configuration	1



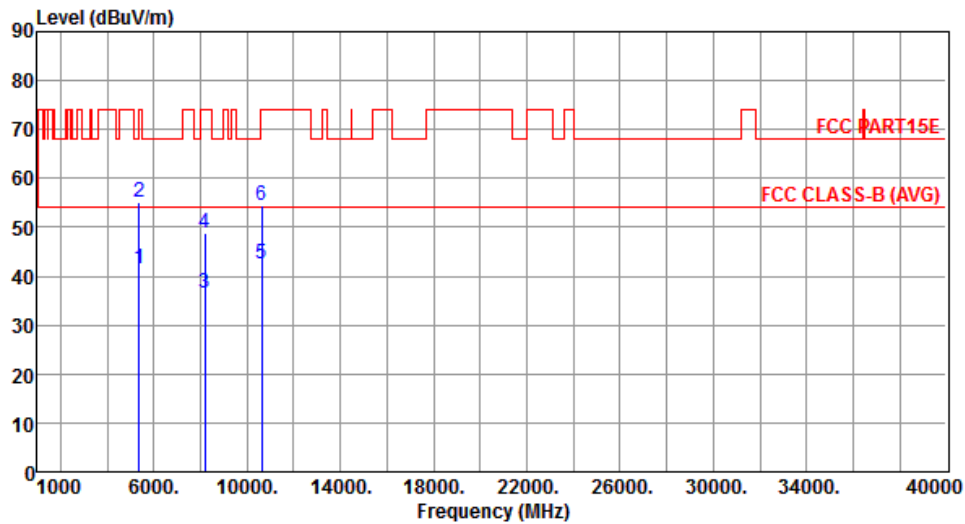
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	42.01	54.00	-11.99	35.50	6.51	Average	---	---
2	5350.00	55.65	74.00	-18.35	49.14	6.51	Peak	---	---
3	8188.00	36.45	54.00	-17.55	24.93	11.52	Average	---	---
4	8188.00	49.02	74.00	-24.98	37.50	11.52	Peak	---	---
5	10640.00	42.25	54.00	-11.75	24.69	17.56	Average	---	---
6	10640.00	55.33	74.00	-18.67	37.77	17.56	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical	Test Configuration	1



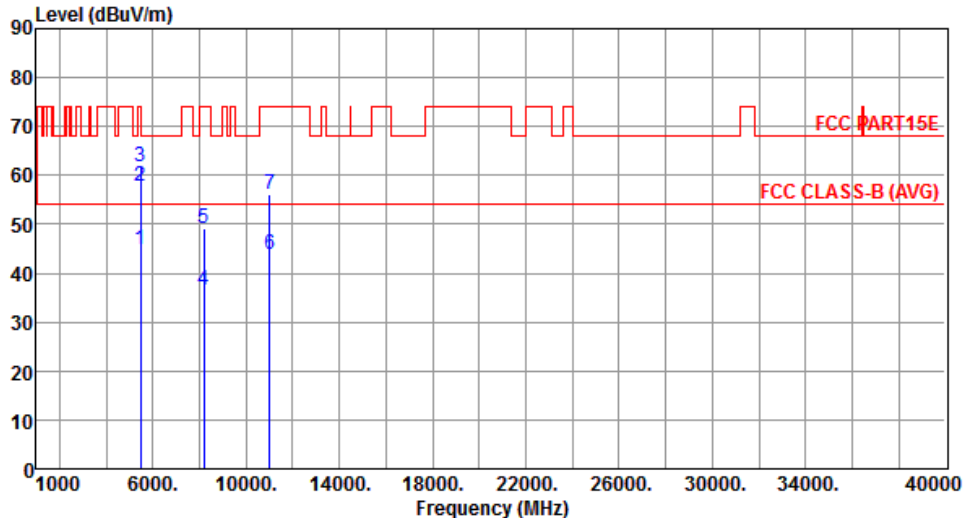
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	41.64	54.00	-12.36	35.13	6.51	Average	---	---
2	5350.00	55.26	74.00	-18.74	48.75	6.51	Peak	---	---
3	8188.00	36.68	54.00	-17.32	25.16	11.52	Average	---	---
4	8188.00	48.88	74.00	-25.12	37.36	11.52	Peak	---	---
5	10640.00	42.36	54.00	-11.64	24.80	17.56	Average	---	---
6	10640.00	54.58	74.00	-19.42	37.02	17.56	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

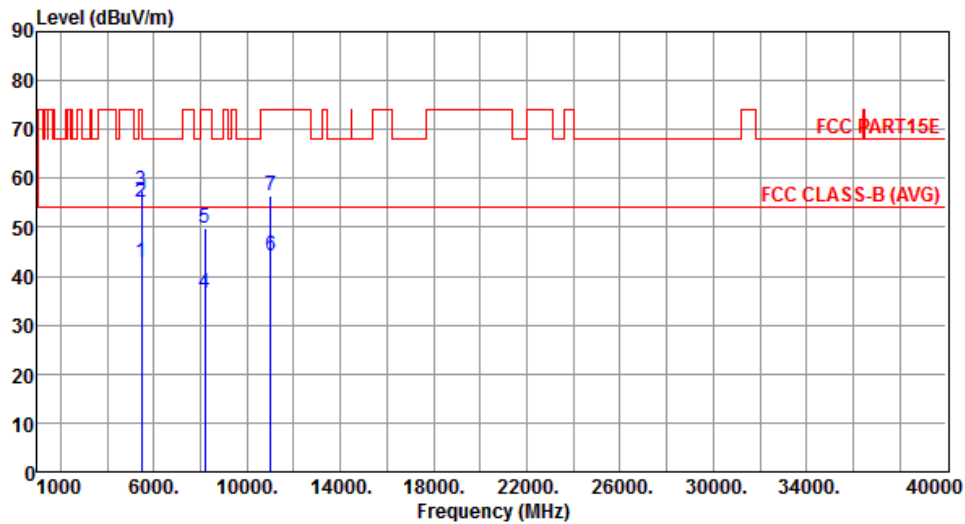
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal	Test Configuration	1



	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	44.80	54.00	-9.20	38.12	6.68	Average	---	---
2	5460.00	57.89	74.00	-16.11	51.21	6.68	Peak	---	---
3	5470.00	61.68	68.20	-6.52	54.98	6.70	Peak	---	---
4	8188.00	36.42	54.00	-17.58	24.90	11.52	Average	---	---
5	8188.00	49.14	74.00	-24.86	37.62	11.52	Peak	---	---
6	11000.00	43.75	54.00	-10.25	25.75	18.00	Average	---	---
7	11000.00	56.21	74.00	-17.79	38.21	18.00	Peak	---	---

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

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical	Test Configuration	1



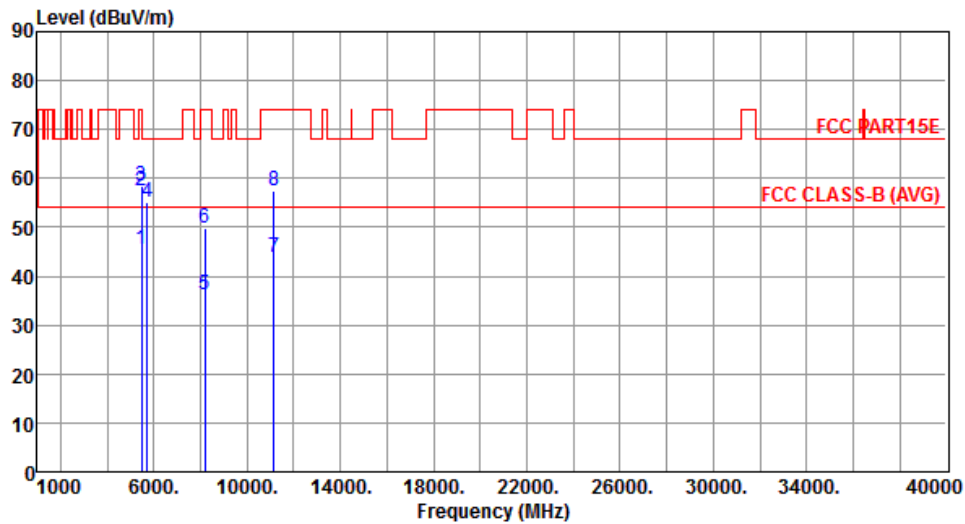
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	42.93	54.00	-11.07	36.25	6.68	Average	---	---
2	5460.00	54.98	74.00	-19.02	48.30	6.68	Peak	---	---
3	5470.00	57.47	68.20	-10.73	50.77	6.70	Peak	---	---
4	8188.00	36.44	54.00	-17.56	24.92	11.52	Average	---	---
5	8188.00	49.71	74.00	-24.29	38.19	11.52	Peak	---	---
6	11000.00	44.17	54.00	-9.83	26.17	18.00	Average	---	---
7	11000.00	56.53	74.00	-17.47	38.53	18.00	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal	Test Configuration	1



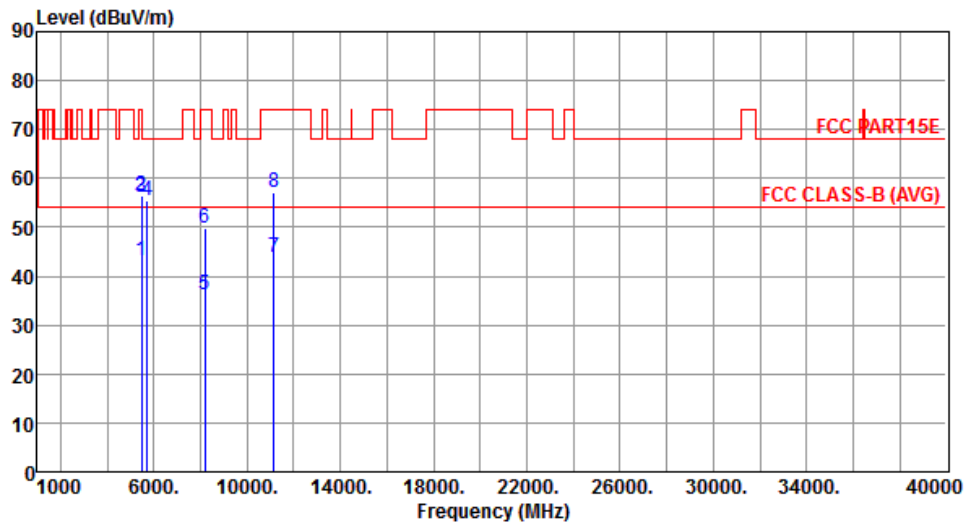
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.49	54.00	-8.51	38.81	6.68	Average	---	---
2	5460.00	57.36	74.00	-16.64	50.68	6.68	Peak	---	---
3	5470.00	58.51	68.20	-9.69	51.81	6.70	Peak	---	---
4	5725.00	55.09	68.20	-13.11	48.00	7.09	Peak	---	---
5	8188.00	36.25	54.00	-17.75	24.73	11.52	Average	---	---
6	8188.00	49.96	74.00	-24.04	38.44	11.52	Peak	---	---
7	11160.00	43.79	54.00	-10.21	26.04	17.75	Average	---	---
8	11160.00	57.56	74.00	-16.44	39.81	17.75	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical	Test Configuration	1



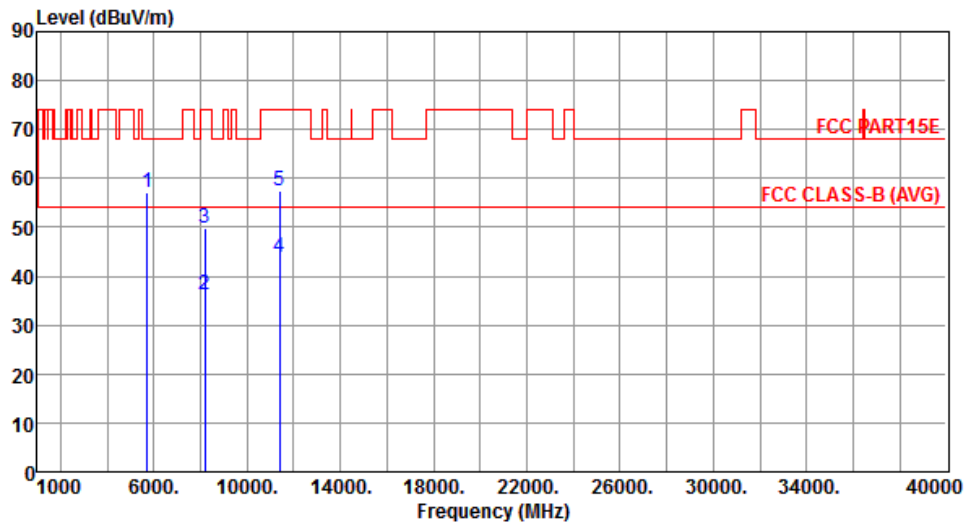
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	43.21	54.00	-10.79	36.53	6.68	Average	---	---
2	5460.00	56.37	74.00	-17.63	49.69	6.68	Peak	---	---
3	5470.00	56.21	68.20	-11.99	49.51	6.70	Peak	---	---
4	5725.00	55.42	68.20	-12.78	48.33	7.09	Peak	---	---
5	8188.00	36.22	54.00	-17.78	24.70	11.52	Average	---	---
6	8188.00	49.82	74.00	-24.18	38.30	11.52	Peak	---	---
7	11160.00	43.99	54.00	-10.01	26.24	17.75	Average	---	---
8	11160.00	57.02	74.00	-16.98	39.27	17.75	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal	Test Configuration	1



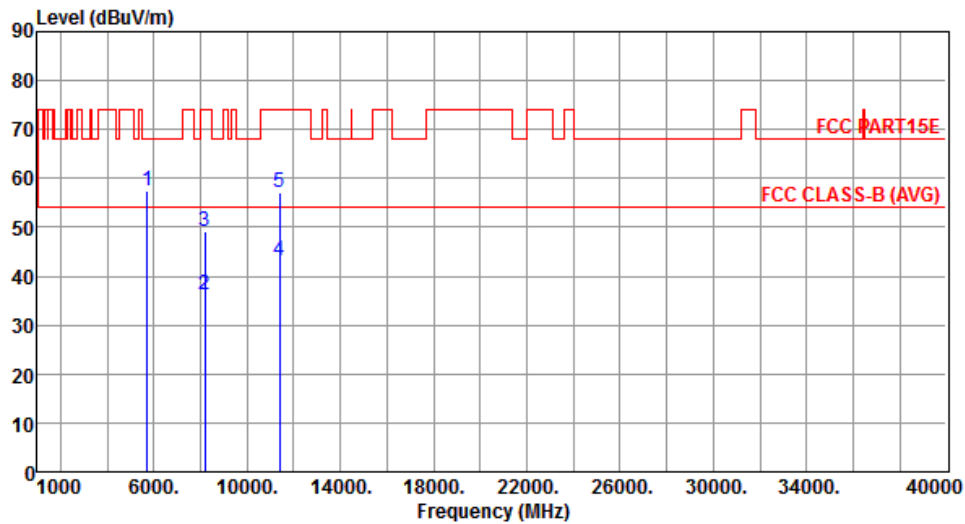
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	57.26	68.20	-10.94	50.17	7.09	Peak	---	---
2	8188.00	36.20	54.00	-17.80	24.68	11.52	Average	---	---
3	8188.00	49.76	74.00	-24.24	38.24	11.52	Peak	---	---
4	11400.00	44.00	54.00	-10.00	26.63	17.37	Average	---	---
5	11400.00	57.44	74.00	-16.56	40.07	17.37	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical	Test Configuration	1



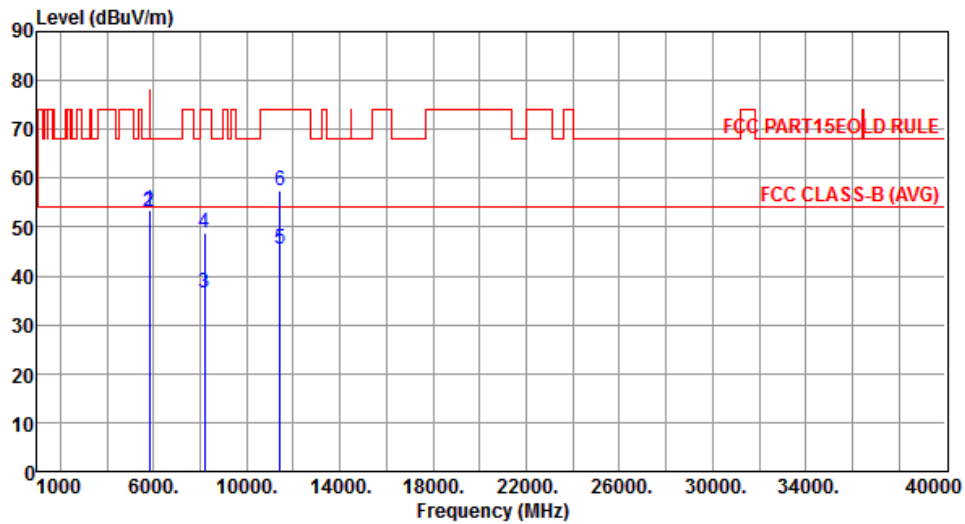
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	57.55	68.20	-10.65	50.46	7.09	Peak	---	---
2	8188.00	36.21	54.00	-17.79	24.69	11.52	Average	---	---
3	8188.00	49.06	74.00	-24.94	37.54	11.52	Peak	---	---
4	11400.00	43.15	54.00	-10.85	25.78	17.37	Average	---	---
5	11400.00	57.21	74.00	-16.79	39.84	17.37	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal	Test Configuration	1



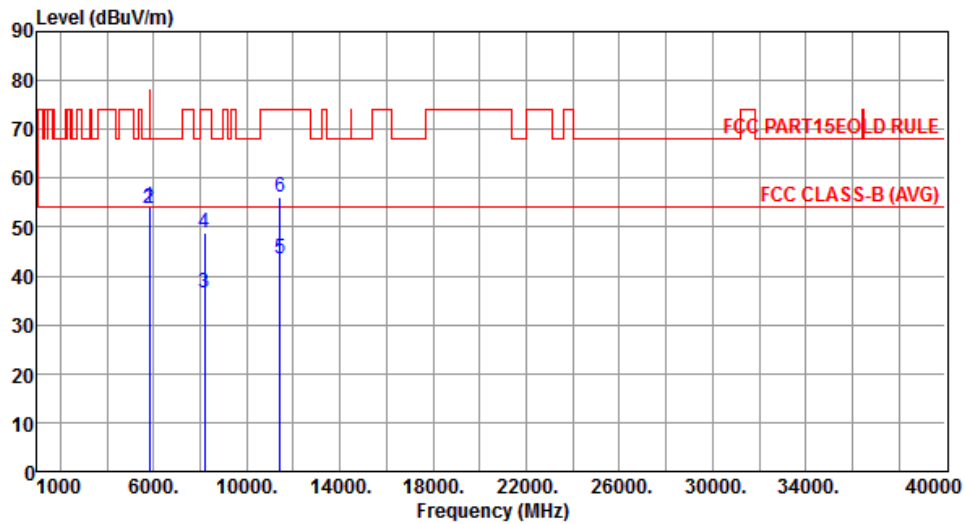
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	53.48	78.20	-24.72	50.54	2.94	Peak	---	---
2	5835.00	53.27	68.20	-14.93	50.31	2.96	Peak	---	---
3	8188.00	36.51	54.00	-17.49	27.35	9.16	Average	---	---
4	8188.00	48.86	74.00	-25.14	39.70	9.16	Peak	---	---
5	11440.00	45.54	54.00	-8.46	29.76	15.78	Average	---	---
6	11440.00	57.38	74.00	-16.62	41.60	15.78	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical	Test Configuration	1



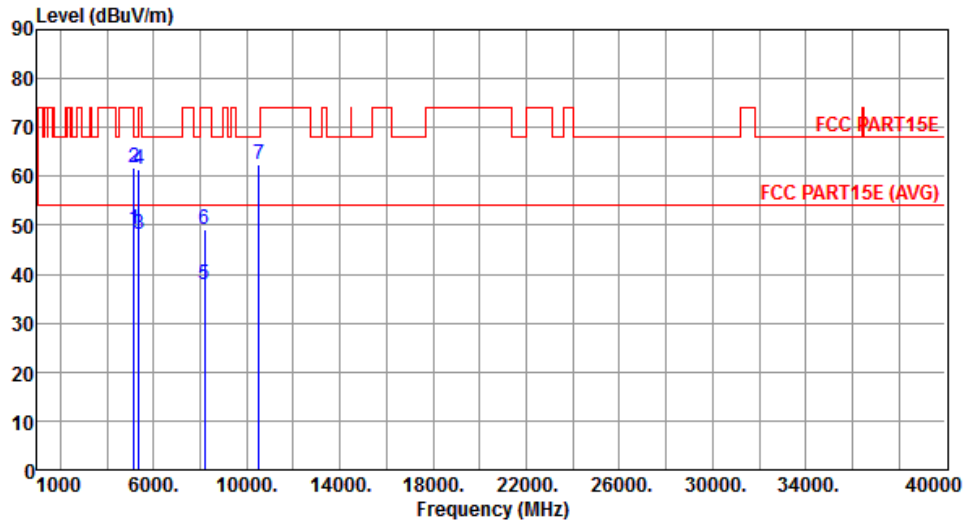
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	54.18	78.20	-24.02	51.24	2.94	Peak	---	---
2	5835.00	53.84	68.20	-14.36	50.88	2.96	Peak	---	---
3	8188.00	36.41	54.00	-17.59	27.25	9.16	Average	---	---
4	8188.00	48.73	74.00	-25.27	39.57	9.16	Peak	---	---
5	11440.00	43.45	54.00	-10.55	27.67	15.78	Average	---	---
6	11440.00	56.25	74.00	-17.75	40.47	15.78	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal	Test Configuration	3



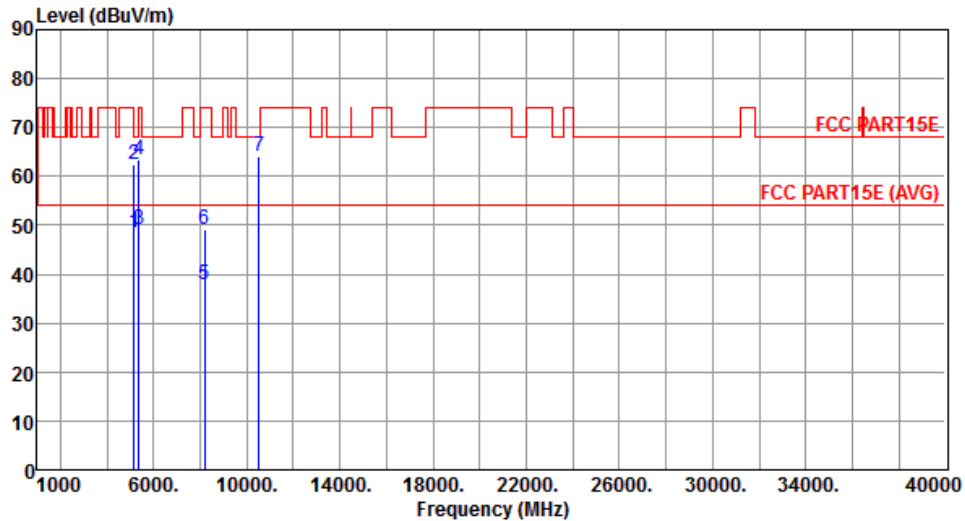
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.06	54.00	-4.94	42.88	6.18	Average	---	---
2	5150.00	61.80	74.00	-12.20	55.62	6.18	Peak	---	---
3	5350.00	48.10	54.00	-5.90	41.59	6.51	Average	---	---
4	5350.00	61.47	74.00	-12.53	54.96	6.51	Peak	---	---
5	8188.00	37.84	54.00	-16.16	26.32	11.52	Average	---	---
6	8188.00	49.27	74.00	-24.73	37.75	11.52	Peak	---	---
7	10520.00	62.51	68.20	-5.69	45.11	17.40	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical	Test Configuration	3



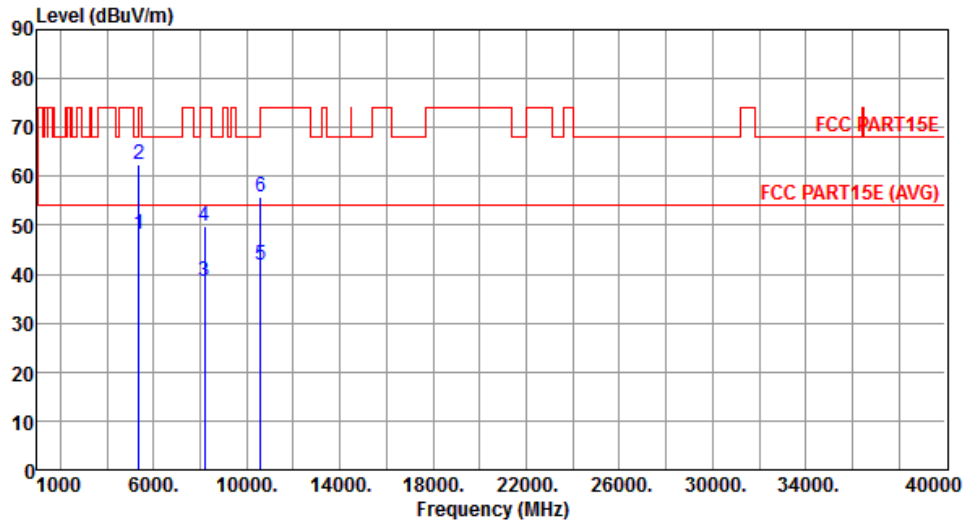
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.64	54.00	-5.36	42.46	6.18	Average	---	---
2	5150.00	62.40	74.00	-11.60	56.22	6.18	Peak	---	---
3	5350.00	49.27	54.00	-4.73	42.76	6.51	Average	---	---
4	5350.00	63.29	74.00	-10.71	56.78	6.51	Peak	---	---
5	8188.00	37.89	54.00	-16.11	26.37	11.52	Average	---	---
6	8188.00	49.16	74.00	-24.84	37.64	11.52	Peak	---	---
7	10520.00	63.93	68.20	-4.27	46.53	17.40	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal	Test Configuration	3



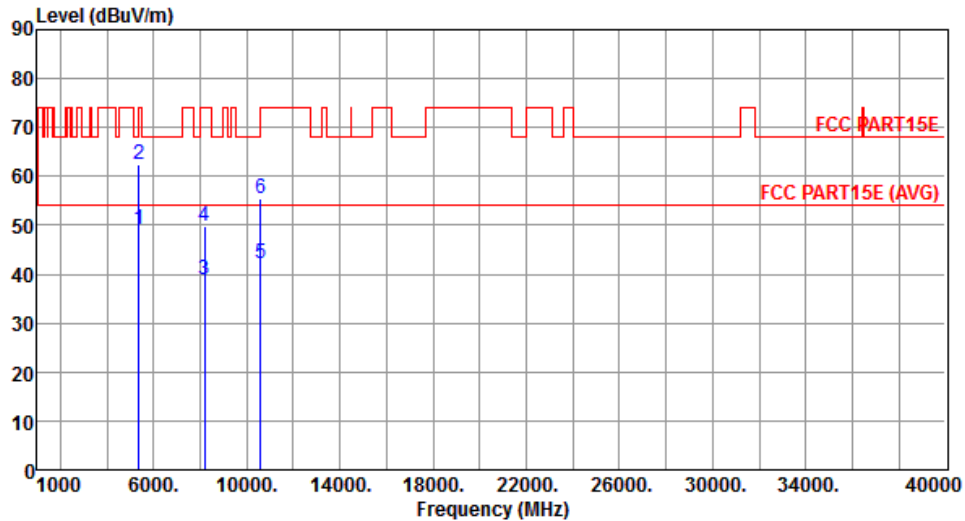
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.15	54.00	-5.85	41.64	6.51	Average	---	---
2	5350.00	62.53	74.00	-11.47	56.02	6.51	Peak	---	---
3	8188.00	38.53	54.00	-15.47	27.01	11.52	Average	---	---
4	8188.00	49.93	74.00	-24.07	38.41	11.52	Peak	---	---
5	10600.00	41.98	54.00	-12.02	24.48	17.50	Average	---	---
6	10600.00	55.82	74.00	-18.18	38.32	17.50	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical	Test Configuration	3



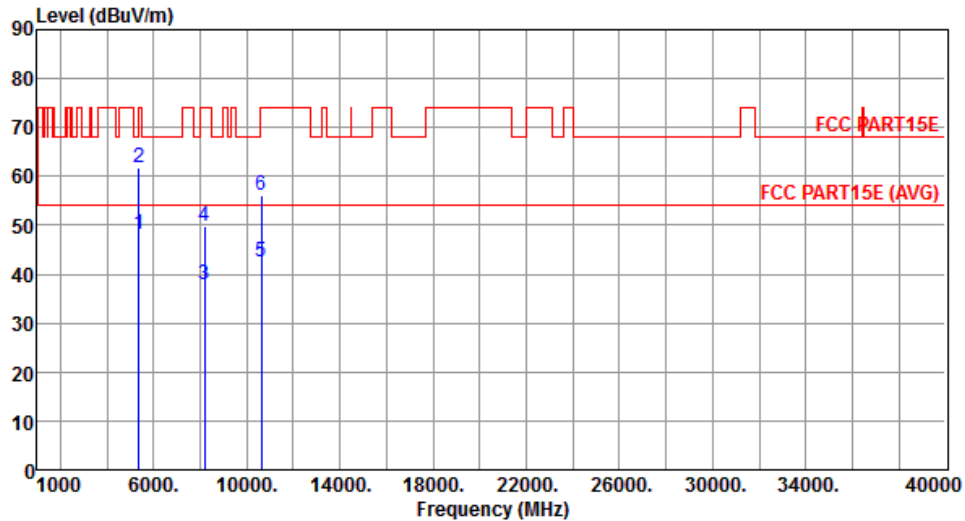
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.21	54.00	-4.79	42.70	6.51	Average	---	---
2	5350.00	62.31	74.00	-11.69	55.80	6.51	Peak	---	---
3	8188.00	38.72	54.00	-15.28	27.20	11.52	Average	---	---
4	8188.00	49.96	74.00	-24.04	38.44	11.52	Peak	---	---
5	10600.00	42.21	54.00	-11.79	24.71	17.50	Average	---	---
6	10600.00	55.41	74.00	-18.59	37.91	17.50	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal	Test Configuration	3



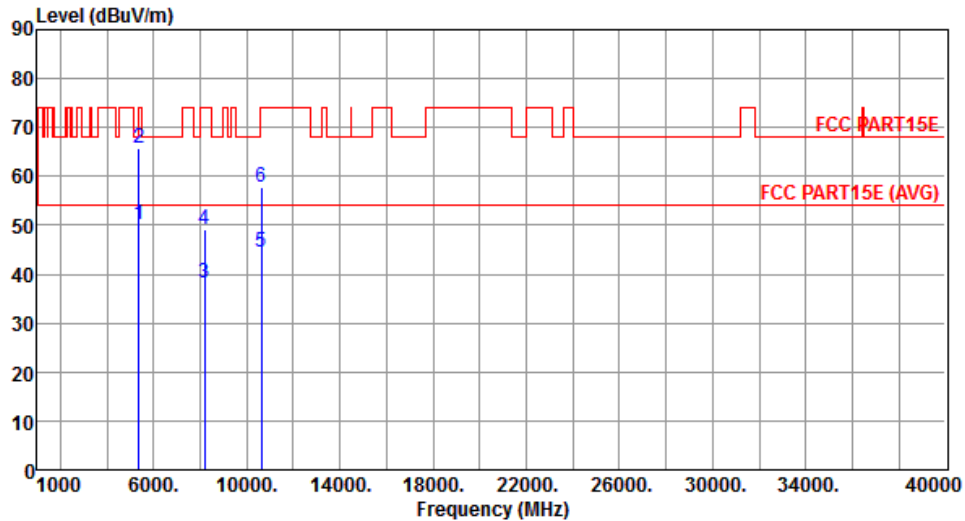
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.15	54.00	-5.85	41.64	6.51	Average	---	---
2	5350.00	61.90	74.00	-12.10	55.39	6.51	Peak	---	---
3	8188.00	37.88	54.00	-16.12	26.36	11.52	Average	---	---
4	8188.00	49.85	74.00	-24.15	38.33	11.52	Peak	---	---
5	10640.00	42.44	54.00	-11.56	24.88	17.56	Average	---	---
6	10640.00	56.05	74.00	-17.95	38.49	17.56	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical	Test Configuration	3



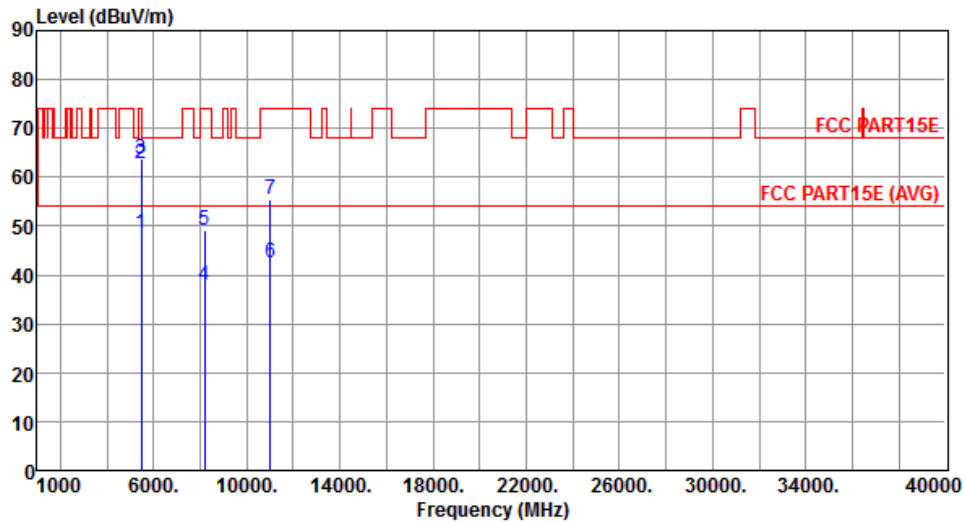
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	50.26	54.00	-3.74	43.75	6.51	Average	---	---
2	5350.00	65.79	74.00	-8.21	59.28	6.51	Peak	---	---
3	8188.00	38.03	54.00	-15.97	26.51	11.52	Average	---	---
4	8188.00	49.15	74.00	-24.85	37.63	11.52	Peak	---	---
5	10640.00	44.43	54.00	-9.57	26.87	17.56	Average	---	---
6	10640.00	57.73	74.00	-16.27	40.17	17.56	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal	Test Configuration	3



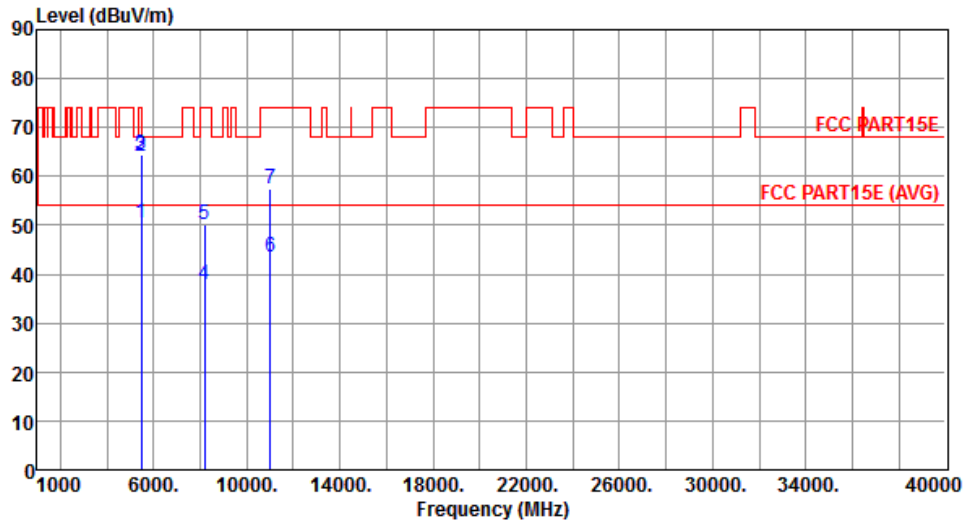
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.36	54.00	-5.64	41.68	6.68	Average	---	---
2	5460.00	62.81	74.00	-11.19	56.13	6.68	Peak	---	---
3	5470.00	63.87	68.20	-4.33	57.17	6.70	Peak	---	---
4	8188.00	37.93	54.00	-16.07	26.41	11.52	Average	---	---
5	8188.00	49.14	74.00	-24.86	37.62	11.52	Peak	---	---
6	11000.00	42.42	54.00	-11.58	24.42	18.00	Average	---	---
7	11000.00	55.42	74.00	-18.58	37.42	18.00	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical	Test Configuration	3



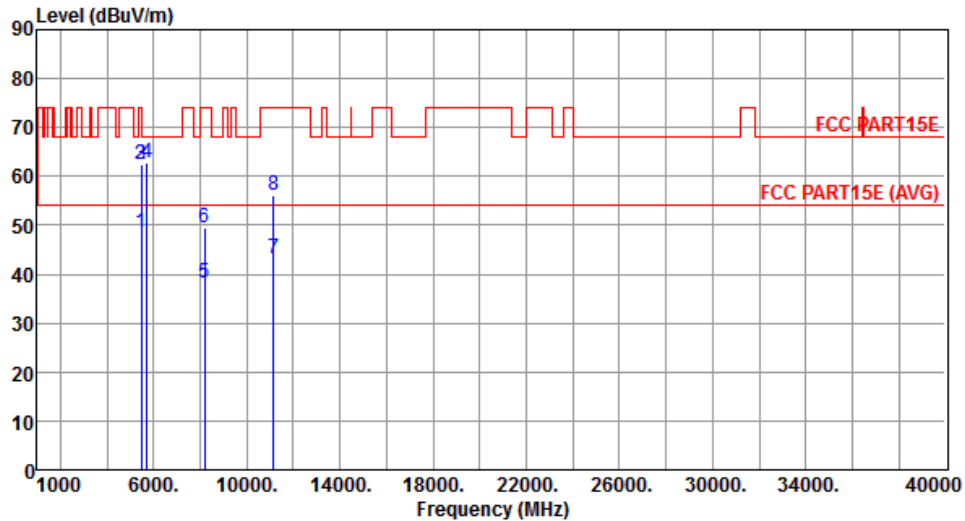
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	50.61	54.00	-3.39	43.93	6.68	Average	---	---
2	5460.00	64.03	74.00	-9.97	57.35	6.68	Peak	---	---
3	5470.00	64.58	68.20	-3.62	57.88	6.70	Peak	---	---
4	8188.00	37.94	54.00	-16.06	26.42	11.52	Average	---	---
5	8188.00	50.28	74.00	-23.72	38.76	11.52	Peak	---	---
6	11000.00	43.53	54.00	-10.47	25.53	18.00	Average	---	---
7	11000.00	57.59	74.00	-16.41	39.59	18.00	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal	Test Configuration	3



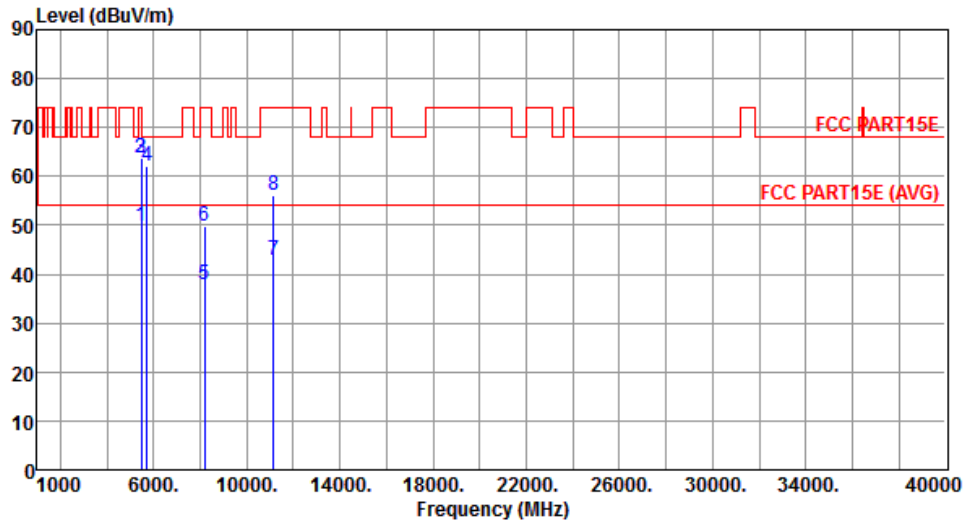
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.36	54.00	-5.64	41.68	6.68	Average	---	---
2	5460.00	62.53	74.00	-11.47	55.85	6.68	Peak	---	---
3	5470.00	62.46	68.20	-5.74	55.76	6.70	Peak	---	---
4	5725.00	62.90	68.20	-5.30	55.81	7.09	Peak	---	---
5	8188.00	38.23	54.00	-15.77	26.71	11.52	Average	---	---
6	8188.00	49.46	74.00	-24.54	37.94	11.52	Peak	---	---
7	11160.00	43.16	54.00	-10.84	25.41	17.75	Average	---	---
8	11160.00	56.18	74.00	-17.82	38.43	17.75	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical	Test Configuration	3



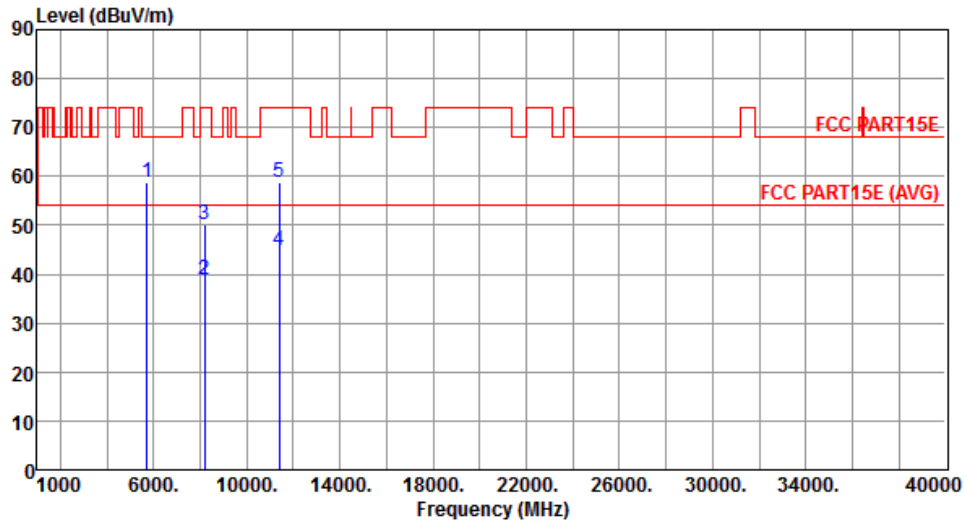
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.71	54.00	-4.29	43.03	6.68	Average	---	---
2	5460.00	63.82	74.00	-10.18	57.14	6.68	Peak	---	---
3	5470.00	63.67	68.20	-4.53	56.97	6.70	Peak	---	---
4	5725.00	62.20	68.20	-6.00	55.11	7.09	Peak	---	---
5	8188.00	37.94	54.00	-16.06	26.42	11.52	Average	---	---
6	8188.00	49.96	74.00	-24.04	38.44	11.52	Peak	---	---
7	11160.00	42.81	54.00	-11.19	25.06	17.75	Average	---	---
8	11160.00	56.16	74.00	-17.84	38.41	17.75	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal	Test Configuration	3



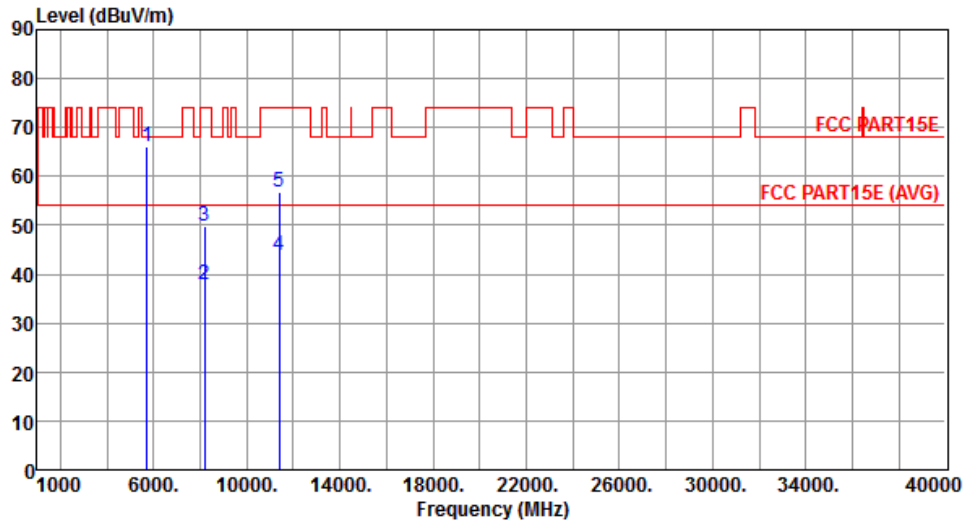
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	58.80	68.20	-9.40	51.71	7.09	Peak	---	---
2	8188.00	38.96	54.00	-15.04	27.44	11.52	Average	---	---
3	8188.00	50.24	74.00	-23.76	38.72	11.52	Peak	---	---
4	11400.00	44.84	54.00	-9.16	27.47	17.37	Average	---	---
5	11400.00	58.89	74.00	-15.11	41.52	17.37	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical	Test Configuration	3



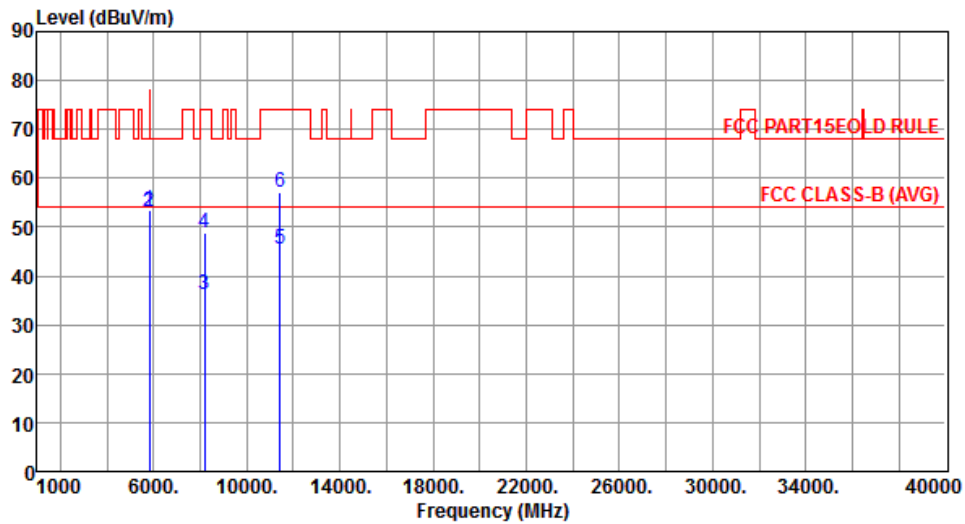
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	66.13	68.20	-2.07	59.04	7.09	Peak	---	---
2	8188.00	37.88	54.00	-16.12	26.36	11.52	Average	---	---
3	8188.00	49.96	74.00	-24.04	38.44	11.52	Peak	---	---
4	11400.00	43.73	54.00	-10.27	26.36	17.37	Average	---	---
5	11400.00	56.73	74.00	-17.27	39.36	17.37	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal	Test Configuration	3



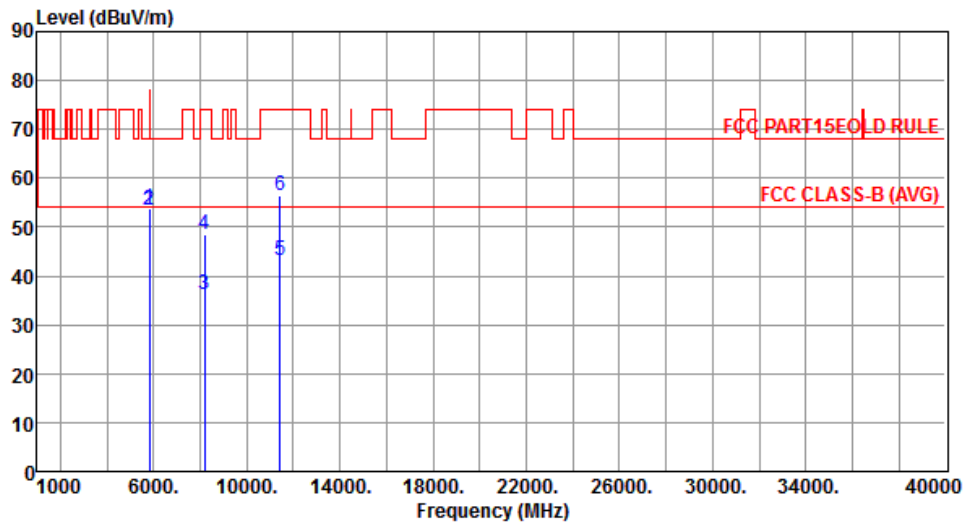
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	53.38	78.20	-24.82	50.44	2.94	Peak	---	---
2	5835.00	53.09	68.20	-15.11	50.13	2.96	Peak	---	---
3	8188.00	36.32	54.00	-17.68	27.16	9.16	Average	---	---
4	8188.00	48.83	74.00	-25.17	39.67	9.16	Peak	---	---
5	11440.00	45.33	54.00	-8.67	29.55	15.78	Average	---	---
6	11440.00	57.15	74.00	-16.85	41.37	15.78	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	53.83	78.20	-24.37	50.89	2.94	Peak	---	---
2	5835.00	53.39	68.20	-14.81	50.43	2.96	Peak	---	---
3	8188.00	36.34	54.00	-17.66	27.18	9.16	Average	---	---
4	8188.00	48.59	74.00	-25.41	39.43	9.16	Peak	---	---
5	11440.00	43.16	54.00	-10.84	27.38	15.78	Average	---	---
6	11440.00	56.40	74.00	-17.60	40.62	15.78	Peak	---	---

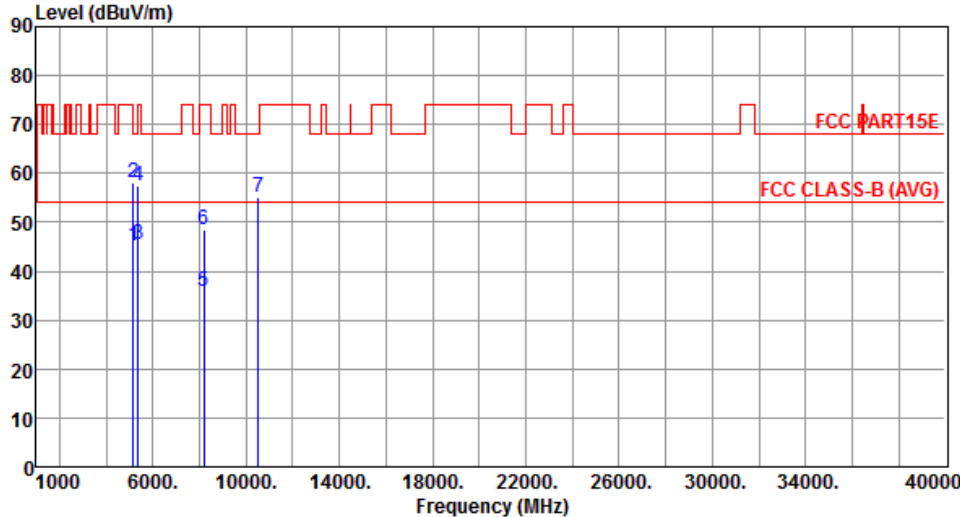
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

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

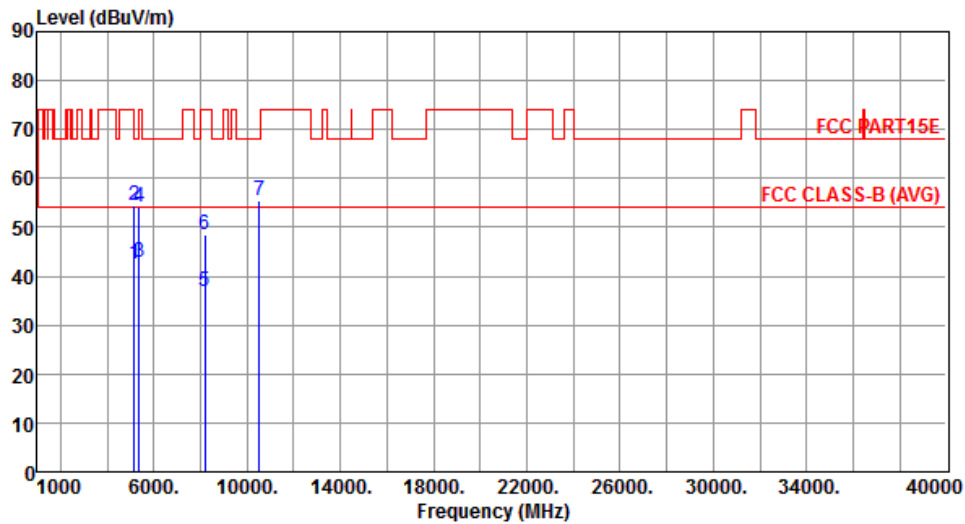
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal	Test Configuration	1



	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	45.25	54.00	-8.75	39.07	6.18	Average	---	---
2	5150.00	58.19	74.00	-15.81	52.01	6.18	Peak	---	---
3	5350.00	45.33	54.00	-8.67	38.82	6.51	Average	---	---
4	5350.00	57.31	74.00	-16.69	50.80	6.51	Peak	---	---
5	8188.00	35.88	54.00	-18.12	24.36	11.52	Average	---	---
6	8188.00	48.58	74.00	-25.42	37.06	11.52	Peak	---	---
7	10520.00	55.21	68.20	-12.99	37.81	17.40	Peak	---	---

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

Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical	Test Configuration	1



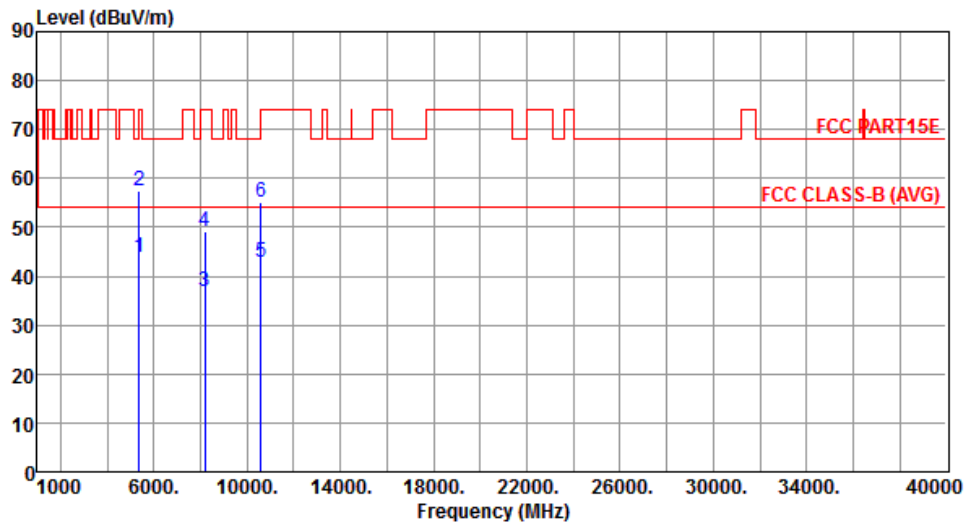
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	42.39	54.00	-11.61	36.21	6.18	Average	---	---
2	5150.00	54.45	74.00	-19.55	48.27	6.18	Peak	---	---
3	5350.00	42.72	54.00	-11.28	36.21	6.51	Average	---	---
4	5350.00	54.30	74.00	-19.70	47.79	6.51	Peak	---	---
5	8188.00	36.80	54.00	-17.20	25.28	11.52	Average	---	---
6	8188.00	48.52	74.00	-25.48	37.00	11.52	Peak	---	---
7	10520.00	55.31	68.20	-12.89	37.91	17.40	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal	Test Configuration	1



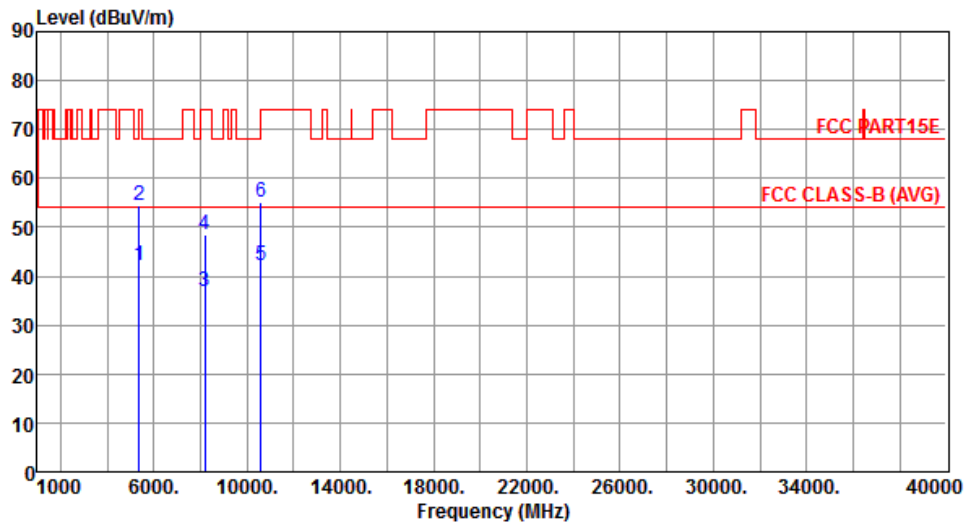
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	43.78	54.00	-10.22	37.27	6.51	Average	---	---
2	5350.00	57.38	74.00	-16.62	50.87	6.51	Peak	---	---
3	8188.00	36.79	54.00	-17.21	25.27	11.52	Average	---	---
4	8188.00	49.00	74.00	-25.00	37.48	11.52	Peak	---	---
5	10600.00	42.99	54.00	-11.01	25.49	17.50	Average	---	---
6	10600.00	55.26	74.00	-18.74	37.76	17.50	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical	Test Configuration	1



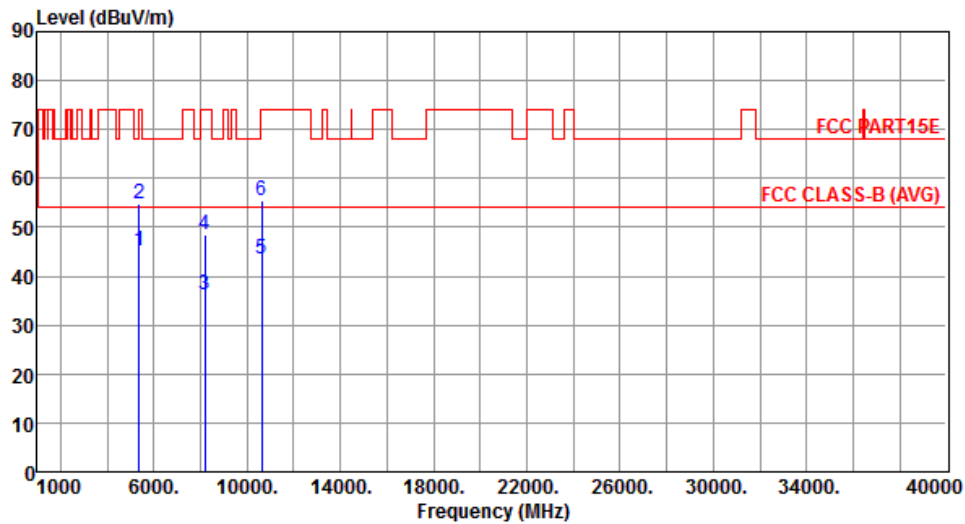
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	42.31	54.00	-11.69	35.80	6.51	Average	---	---
2	5350.00	54.39	74.00	-19.61	47.88	6.51	Peak	---	---
3	8188.00	36.78	54.00	-17.22	25.26	11.52	Average	---	---
4	8188.00	48.57	74.00	-25.43	37.05	11.52	Peak	---	---
5	10600.00	42.27	54.00	-11.73	24.77	17.50	Average	---	---
6	10600.00	55.03	74.00	-18.97	37.53	17.50	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal	Test Configuration	1



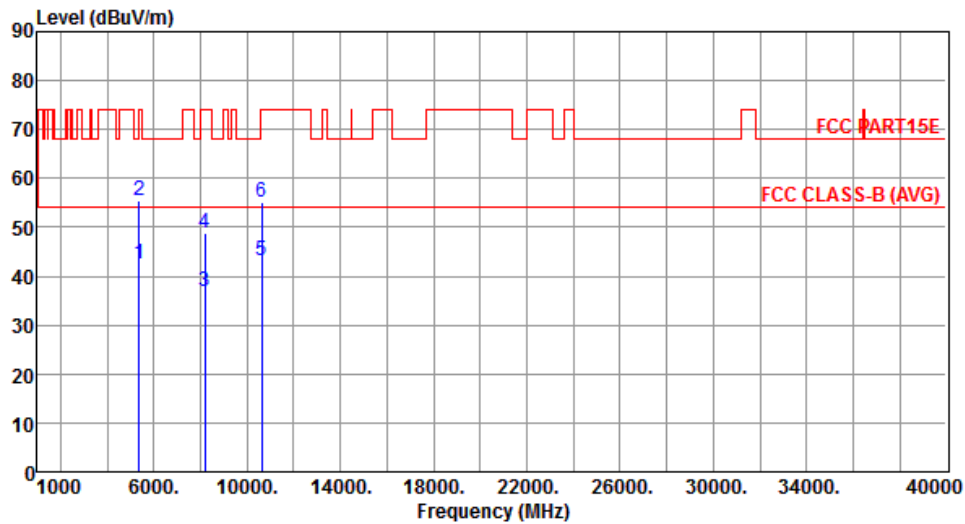
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.06	54.00	-8.94	38.55	6.51	Average	---	---
2	5350.00	54.64	74.00	-19.36	48.13	6.51	Peak	---	---
3	8188.00	36.08	54.00	-17.92	24.56	11.52	Average	---	---
4	8188.00	48.43	74.00	-25.57	36.91	11.52	Peak	---	---
5	10640.00	43.52	54.00	-10.48	25.96	17.56	Average	---	---
6	10640.00	55.46	74.00	-18.54	37.90	17.56	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical	Test Configuration	1



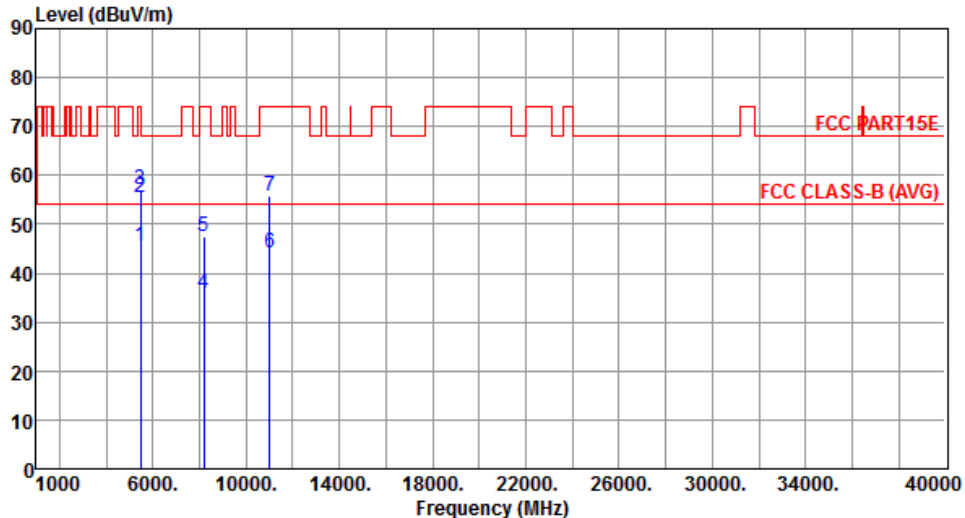
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	42.55	54.00	-11.45	36.04	6.51	Average	---	---
2	5350.00	55.31	74.00	-18.69	48.80	6.51	Peak	---	---
3	8188.00	36.79	54.00	-17.21	25.27	11.52	Average	---	---
4	8188.00	48.72	74.00	-25.28	37.20	11.52	Peak	---	---
5	10640.00	43.03	54.00	-10.97	25.47	17.56	Average	---	---
6	10640.00	55.12	74.00	-18.88	37.56	17.56	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

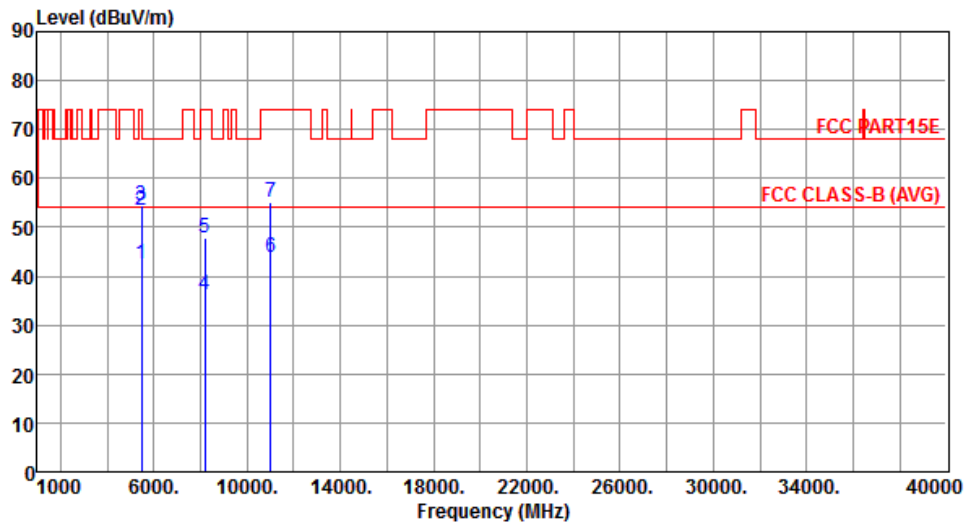
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.54	54.00	-8.46	38.86	6.68	Average	---	---
2	5460.00	55.51	74.00	-18.49	48.83	6.68	Peak	---	---
3	5470.00	57.24	68.20	-10.96	50.54	6.70	Peak	---	---
4	8188.00	35.72	54.00	-18.28	24.20	11.52	Average	---	---
5	8188.00	47.64	74.00	-26.36	36.12	11.52	Peak	---	---
6	11000.00	44.01	54.00	-9.99	26.01	18.00	Average	---	---
7	11000.00	55.74	74.00	-18.26	37.74	18.00	Peak	---	---

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

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical	Test Configuration	1



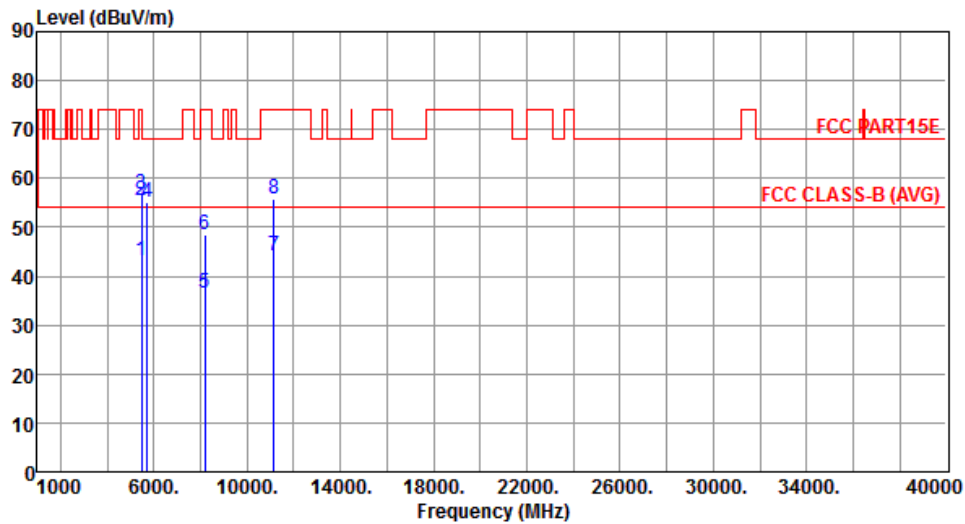
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	42.39	54.00	-11.61	35.71	6.68	Average	---	---
2	5460.00	53.62	74.00	-20.38	46.94	6.68	Peak	---	---
3	5470.00	54.55	68.20	-13.65	47.85	6.70	Peak	---	---
4	8188.00	36.36	54.00	-17.64	24.84	11.52	Average	---	---
5	8188.00	47.88	74.00	-26.12	36.36	11.52	Peak	---	---
6	11000.00	43.86	54.00	-10.14	25.86	18.00	Average	---	---
7	11000.00	55.16	74.00	-18.84	37.16	18.00	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal	Test Configuration	1



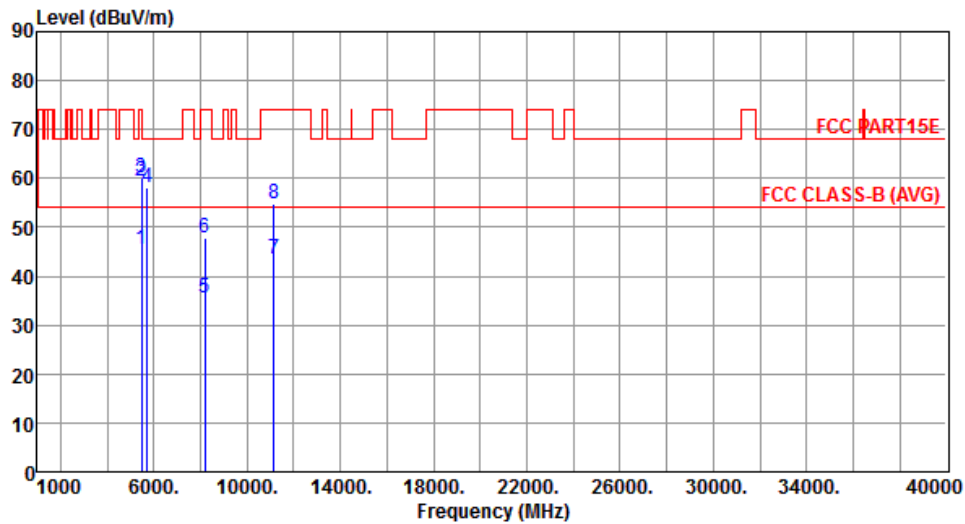
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	43.06	54.00	-10.94	36.38	6.68	Average	---	---
2	5460.00	55.42	74.00	-18.58	48.74	6.68	Peak	---	---
3	5470.00	56.93	68.20	-11.27	50.23	6.70	Peak	---	---
4	5725.00	55.23	68.20	-12.97	48.14	7.09	Peak	---	---
5	8188.00	36.40	54.00	-17.60	24.88	11.52	Average	---	---
6	8188.00	48.53	74.00	-25.47	37.01	11.52	Peak	---	---
7	11160.00	44.13	54.00	-9.87	26.38	17.75	Average	---	---
8	11160.00	55.66	74.00	-18.34	37.91	17.75	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical	Test Configuration	1



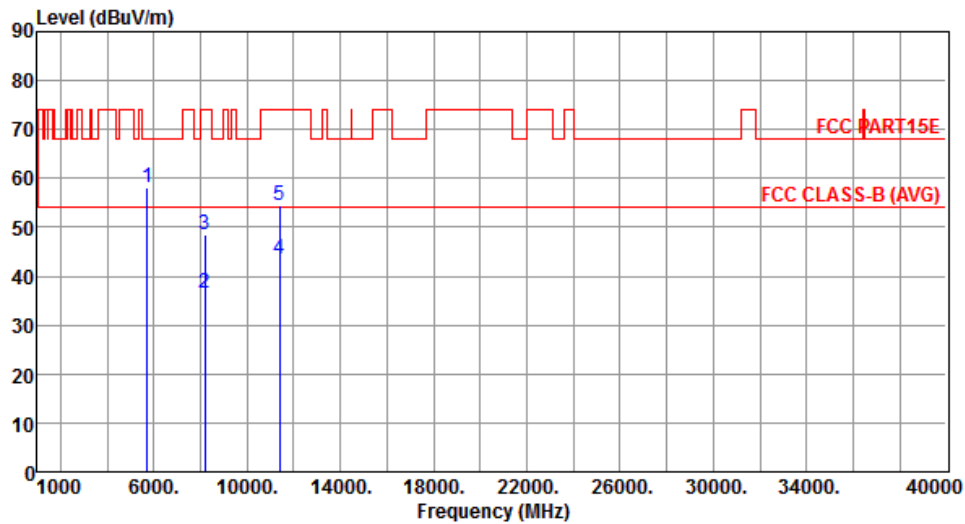
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.61	54.00	-8.39	38.93	6.68	Average	---	---
2	5460.00	59.31	74.00	-14.69	52.63	6.68	Peak	---	---
3	5470.00	60.15	68.20	-8.05	53.45	6.70	Peak	---	---
4	5725.00	57.96	68.20	-10.24	50.87	7.09	Peak	---	---
5	8188.00	35.52	54.00	-18.48	24.00	11.52	Average	---	---
6	8188.00	47.78	74.00	-26.22	36.26	11.52	Peak	---	---
7	11160.00	43.55	54.00	-10.45	25.80	17.75	Average	---	---
8	11160.00	54.96	74.00	-19.04	37.21	17.75	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal	Test Configuration	1



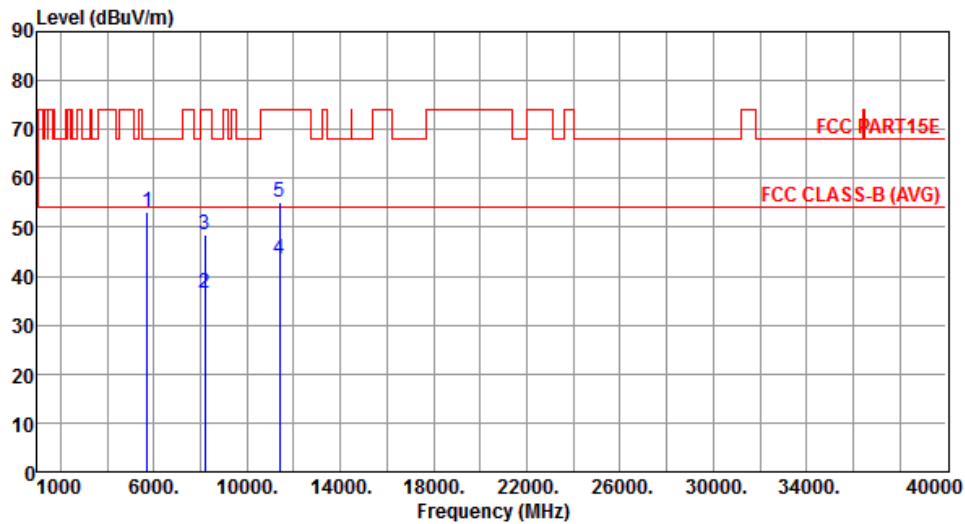
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	57.96	68.20	-10.24	50.87	7.09	Peak	---	---
2	8188.00	36.46	54.00	-17.54	24.94	11.52	Average	---	---
3	8188.00	48.52	74.00	-25.48	37.00	11.52	Peak	---	---
4	11400.00	43.46	54.00	-10.54	26.09	17.37	Average	---	---
5	11400.00	54.53	74.00	-19.47	37.16	17.37	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical	Test Configuration	1



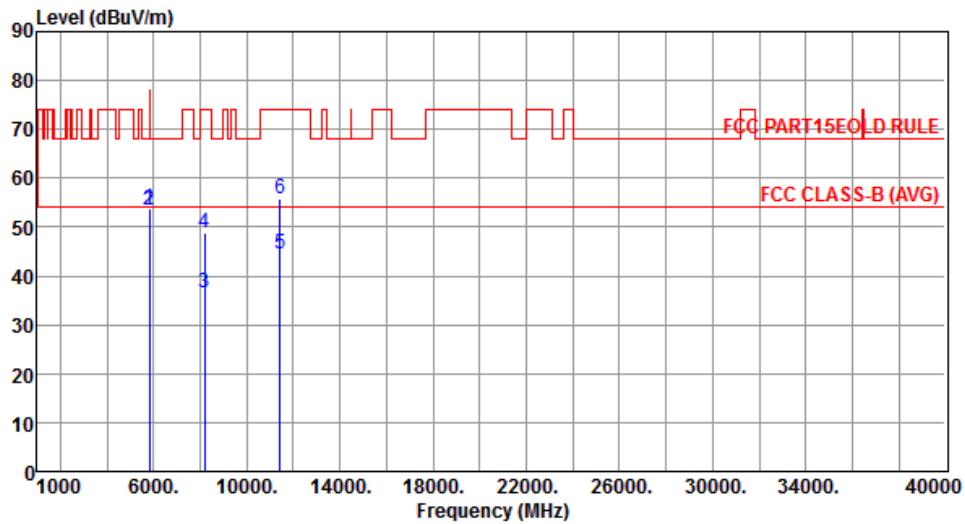
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	53.10	68.20	-15.10	46.01	7.09	Peak	---	---
2	8188.00	36.37	54.00	-17.63	24.85	11.52	Average	---	---
3	8188.00	48.53	74.00	-25.47	37.01	11.52	Peak	---	---
4	11400.00	43.58	54.00	-10.42	26.21	17.37	Average	---	---
5	11400.00	55.16	74.00	-18.84	37.79	17.37	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Horizontal	Test Configuration	1



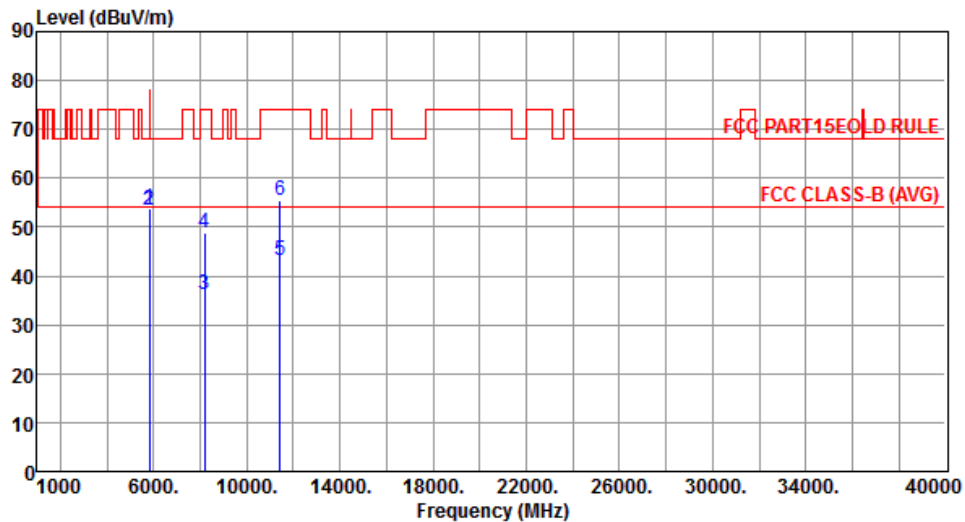
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	53.81	78.20	-24.39	50.87	2.94	Peak	---	---
2	5835.00	53.42	68.20	-14.78	50.46	2.96	Peak	---	---
3	8188.00	36.68	54.00	-17.32	27.52	9.16	Average	---	---
4	8188.00	48.87	74.00	-25.13	39.71	9.16	Peak	---	---
5	11420.00	44.48	54.00	-9.52	28.65	15.83	Average	---	---
6	11420.00	55.77	74.00	-18.23	39.94	15.83	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Vertical	Test Configuration	1



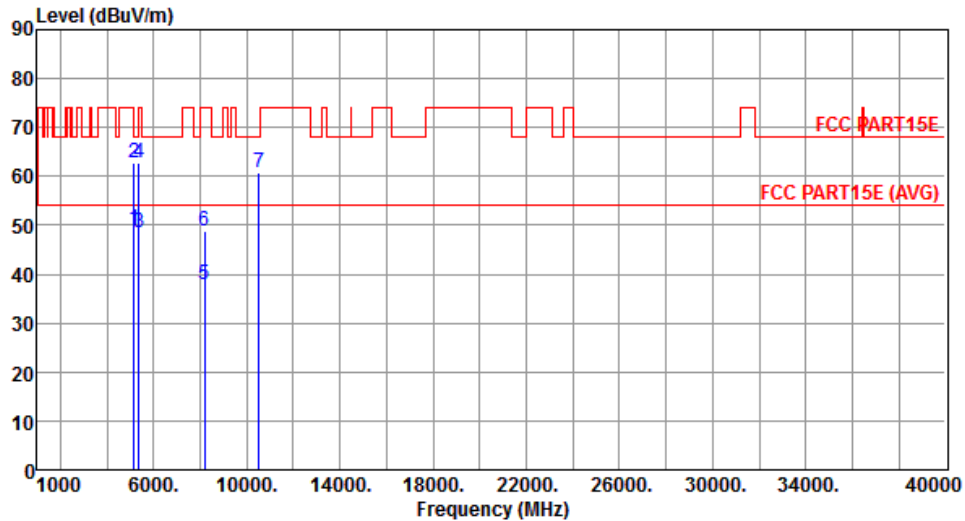
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	53.71	78.20	-24.49	50.77	2.94	Peak	---	---
2	5835.00	53.44	68.20	-14.76	50.48	2.96	Peak	---	---
3	8188.00	36.09	54.00	-17.91	26.93	9.16	Average	---	---
4	8188.00	48.82	74.00	-25.18	39.66	9.16	Peak	---	---
5	11420.00	43.03	54.00	-10.97	27.20	15.83	Average	---	---
6	11420.00	55.49	74.00	-18.51	39.66	15.83	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal	Test Configuration	3



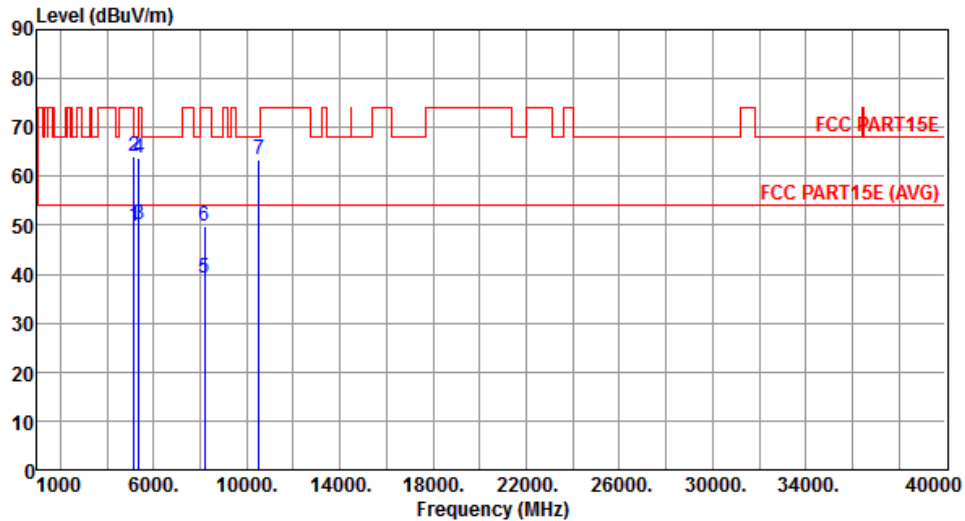
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.01	54.00	-4.99	42.83	6.18	Average	---	---
2	5150.00	62.86	74.00	-11.14	56.68	6.18	Peak	---	---
3	5350.00	48.64	54.00	-5.36	42.13	6.51	Average	---	---
4	5350.00	62.61	74.00	-11.39	56.10	6.51	Peak	---	---
5	8188.00	37.95	54.00	-16.05	26.43	11.52	Average	---	---
6	8188.00	48.79	74.00	-25.21	37.27	11.52	Peak	---	---
7	10520.00	60.73	68.20	-7.47	43.33	17.40	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical	Test Configuration	3



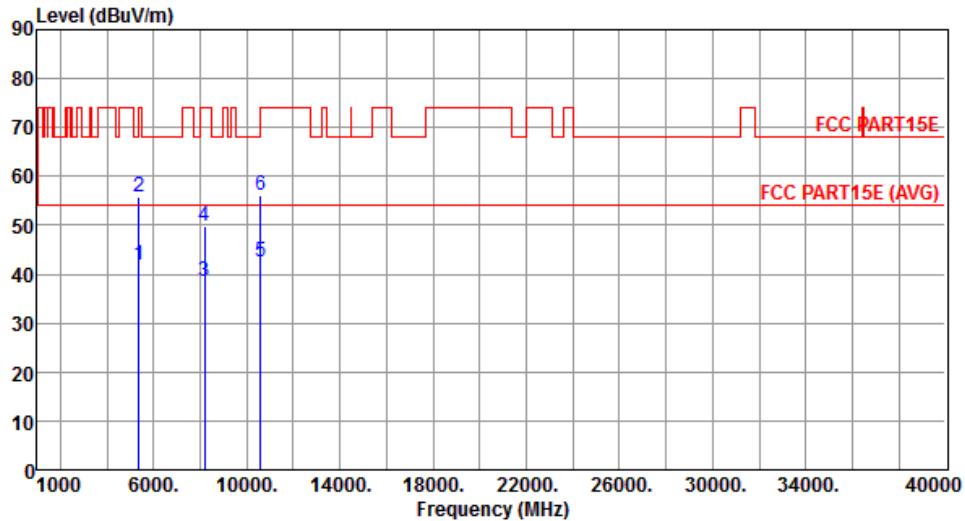
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.97	54.00	-4.03	43.79	6.18	Average	---	---
2	5150.00	64.26	74.00	-9.74	58.08	6.18	Peak	---	---
3	5350.00	50.14	54.00	-3.86	43.63	6.51	Average	---	---
4	5350.00	63.60	74.00	-10.40	57.09	6.51	Peak	---	---
5	8188.00	39.13	54.00	-14.87	27.61	11.52	Average	---	---
6	8188.00	49.88	74.00	-24.12	38.36	11.52	Peak	---	---
7	10520.00	63.36	68.20	-4.84	45.96	17.40	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal	Test Configuration	3



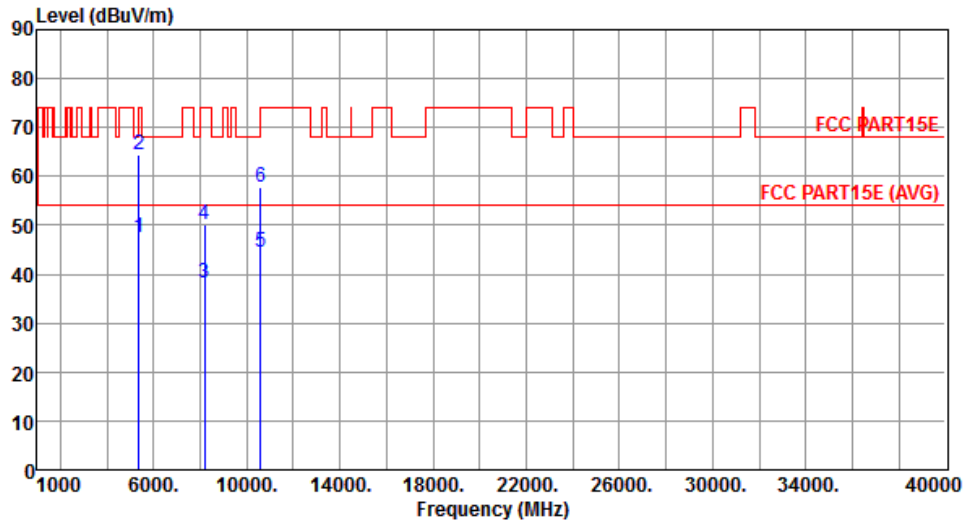
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	41.94	54.00	-12.06	35.43	6.51	Average	---	---
2	5350.00	55.66	74.00	-18.34	49.15	6.51	Peak	---	---
3	8188.00	38.64	54.00	-15.36	27.12	11.52	Average	---	---
4	8188.00	49.88	74.00	-24.12	38.36	11.52	Peak	---	---
5	10600.00	42.42	54.00	-11.58	24.92	17.50	Average	---	---
6	10600.00	56.24	74.00	-17.76	38.74	17.50	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical	Test Configuration	3



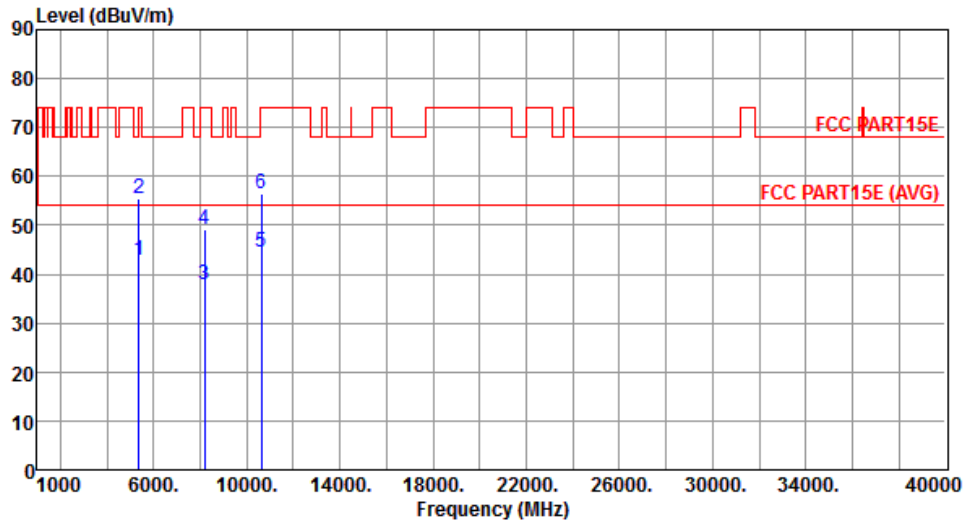
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.64	54.00	-6.36	41.13	6.51	Average	---	---
2	5350.00	64.40	74.00	-9.60	57.89	6.51	Peak	---	---
3	8188.00	38.12	54.00	-15.88	26.60	11.52	Average	---	---
4	8188.00	50.04	74.00	-23.96	38.52	11.52	Peak	---	---
5	10600.00	44.48	54.00	-9.52	26.98	17.50	Average	---	---
6	10600.00	57.69	74.00	-16.31	40.19	17.50	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal	Test Configuration	3



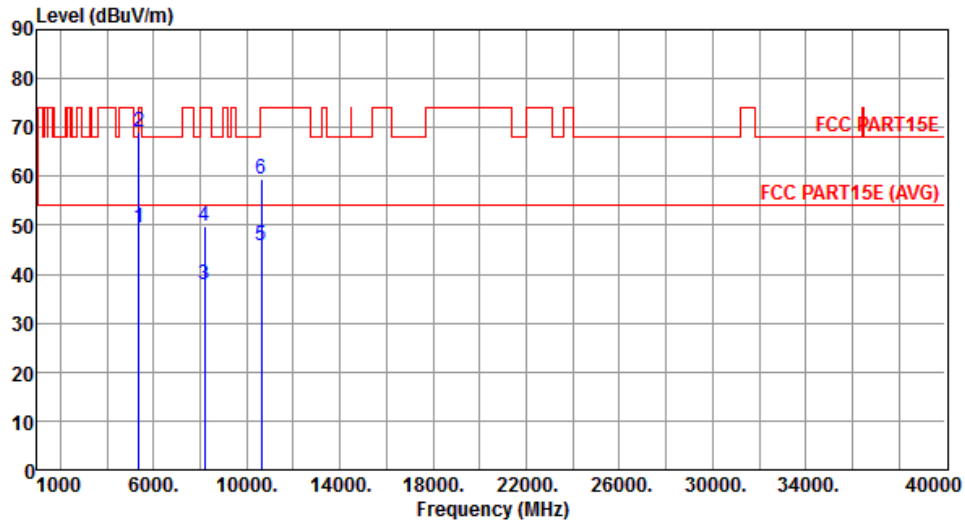
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	42.87	54.00	-11.13	36.36	6.51	Average	---	---
2	5350.00	55.58	74.00	-18.42	49.07	6.51	Peak	---	---
3	8188.00	37.94	54.00	-16.06	26.42	11.52	Average	---	---
4	8188.00	49.23	74.00	-24.77	37.71	11.52	Peak	---	---
5	10640.00	44.35	54.00	-9.65	26.79	17.56	Average	---	---
6	10640.00	56.60	74.00	-17.40	39.04	17.56	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical	Test Configuration	3



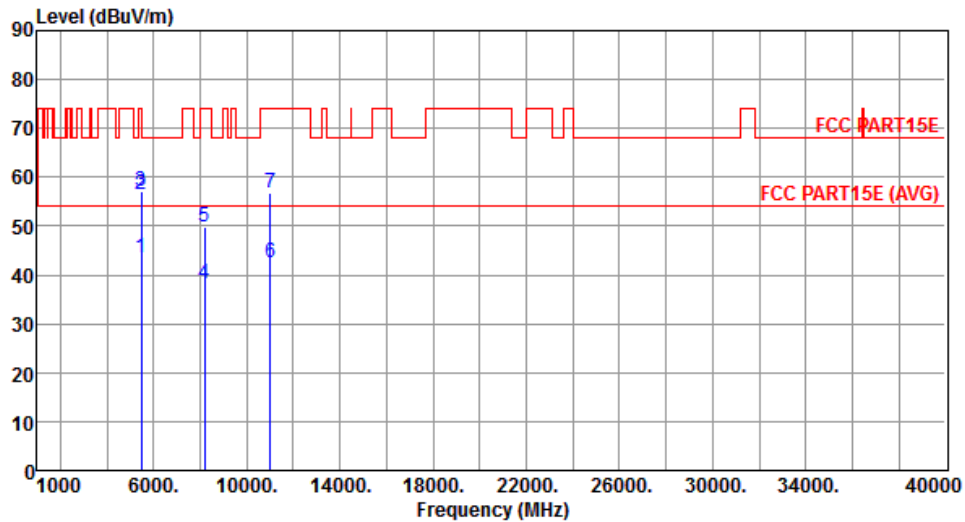
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.62	54.00	-4.38	43.11	6.51	Average	---	---
2	5350.00	68.97	74.00	-5.03	62.46	6.51	Peak	---	---
3	8188.00	37.95	54.00	-16.05	26.43	11.52	Average	---	---
4	8188.00	49.75	74.00	-24.25	38.23	11.52	Peak	---	---
5	10640.00	45.80	54.00	-8.20	28.24	17.56	Average	---	---
6	10640.00	59.59	74.00	-14.41	42.03	17.56	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal	Test Configuration	3



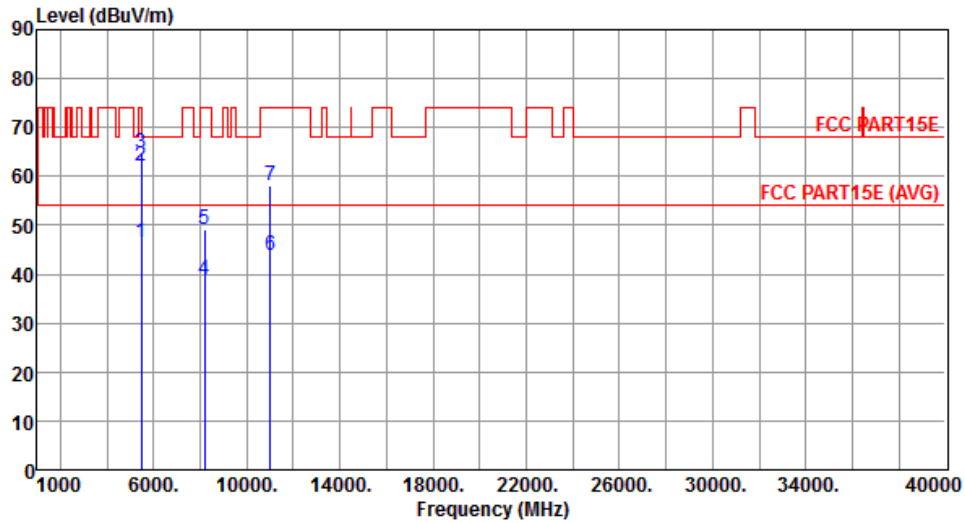
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	43.41	54.00	-10.59	36.73	6.68	Average	---	---
2	5460.00	56.62	74.00	-17.38	49.94	6.68	Peak	---	---
3	5470.00	57.19	68.20	-11.01	50.49	6.70	Peak	---	---
4	8188.00	38.17	54.00	-15.83	26.65	11.52	Average	---	---
5	8188.00	49.74	74.00	-24.26	38.22	11.52	Peak	---	---
6	11000.00	42.63	54.00	-11.37	24.63	18.00	Average	---	---
7	11000.00	56.73	74.00	-17.27	38.73	18.00	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical	Test Configuration	3



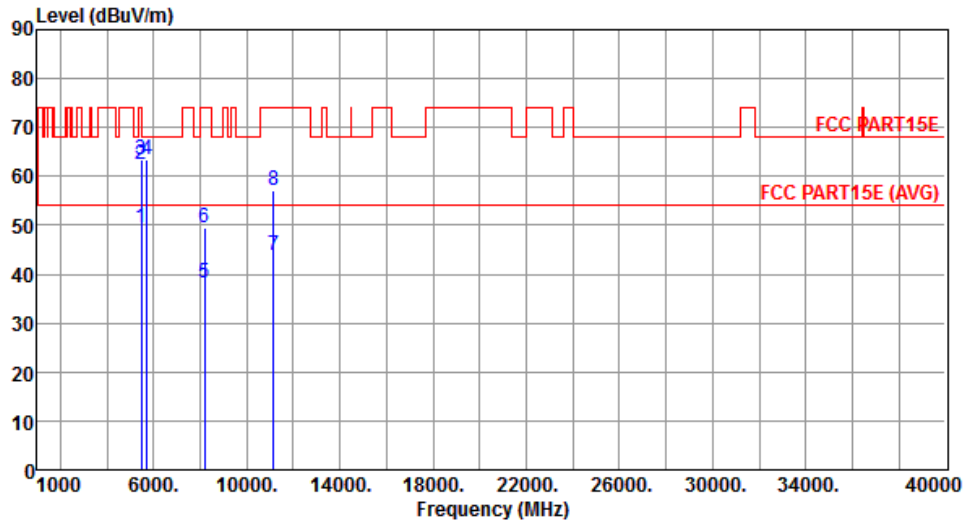
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.37	54.00	-7.63	39.69	6.68	Average	---	---
2	5460.00	61.95	74.00	-12.05	55.27	6.68	Peak	---	---
3	5470.00	64.75	68.20	-3.45	58.05	6.70	Peak	---	---
4	8188.00	38.88	54.00	-15.12	27.36	11.52	Average	---	---
5	8188.00	49.12	74.00	-24.88	37.60	11.52	Peak	---	---
6	11000.00	43.73	54.00	-10.27	25.73	18.00	Average	---	---
7	11000.00	58.12	74.00	-15.88	40.12	18.00	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal	Test Configuration	3



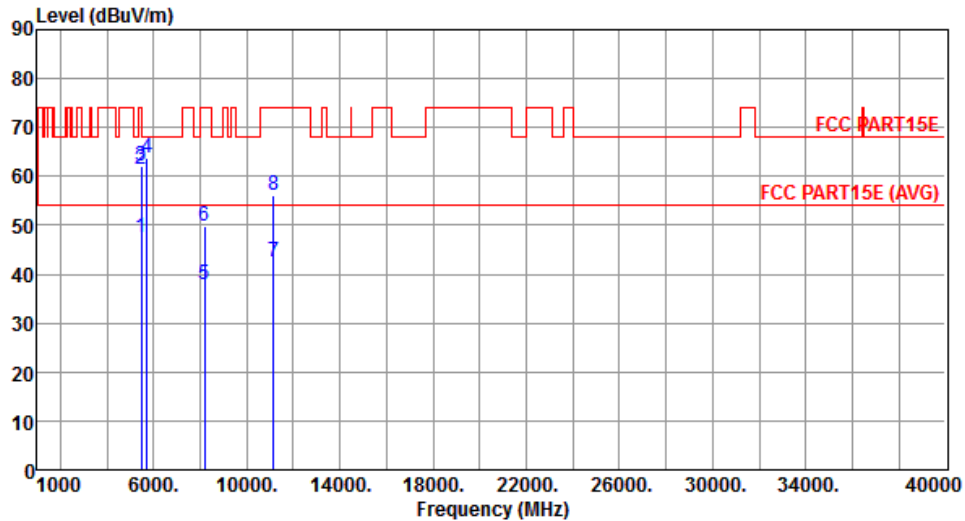
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.48	54.00	-4.52	42.80	6.68	Average	---	---
2	5460.00	62.55	74.00	-11.45	55.87	6.68	Peak	---	---
3	5470.00	63.49	68.20	-4.71	56.79	6.70	Peak	---	---
4	5725.00	63.50	68.20	-4.70	56.41	7.09	Peak	---	---
5	8188.00	38.06	54.00	-15.94	26.54	11.52	Average	---	---
6	8188.00	49.34	74.00	-24.66	37.82	11.52	Peak	---	---
7	11160.00	43.69	54.00	-10.31	25.94	17.75	Average	---	---
8	11160.00	57.10	74.00	-16.90	39.35	17.75	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical	Test Configuration	3



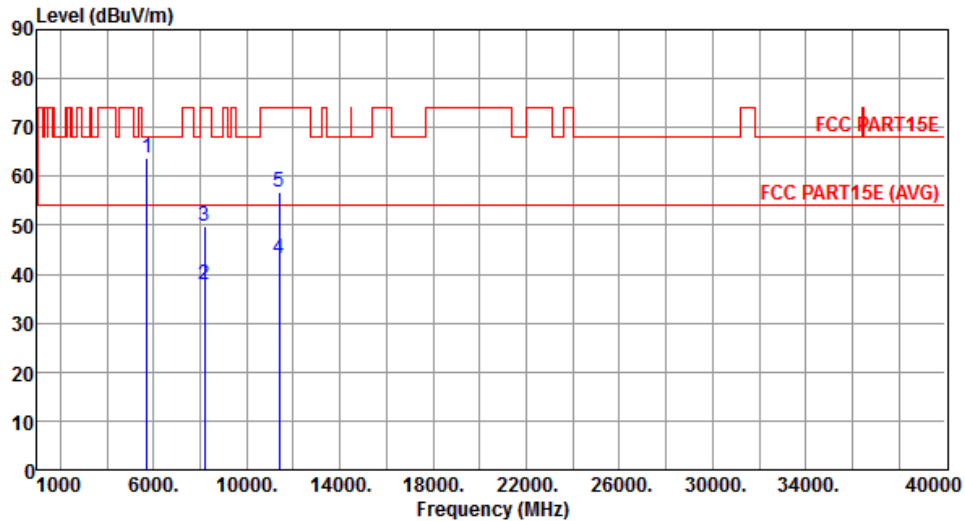
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.58	54.00	-6.42	40.90	6.68	Average	---	---
2	5460.00	61.43	74.00	-12.57	54.75	6.68	Peak	---	---
3	5470.00	62.02	68.20	-6.18	55.32	6.70	Peak	---	---
4	5725.00	63.86	68.20	-4.34	56.77	7.09	Peak	---	---
5	8188.00	37.93	54.00	-16.07	26.41	11.52	Average	---	---
6	8188.00	49.94	74.00	-24.06	38.42	11.52	Peak	---	---
7	11160.00	42.35	54.00	-11.65	24.60	17.75	Average	---	---
8	11160.00	56.13	74.00	-17.87	38.38	17.75	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal	Test Configuration	3



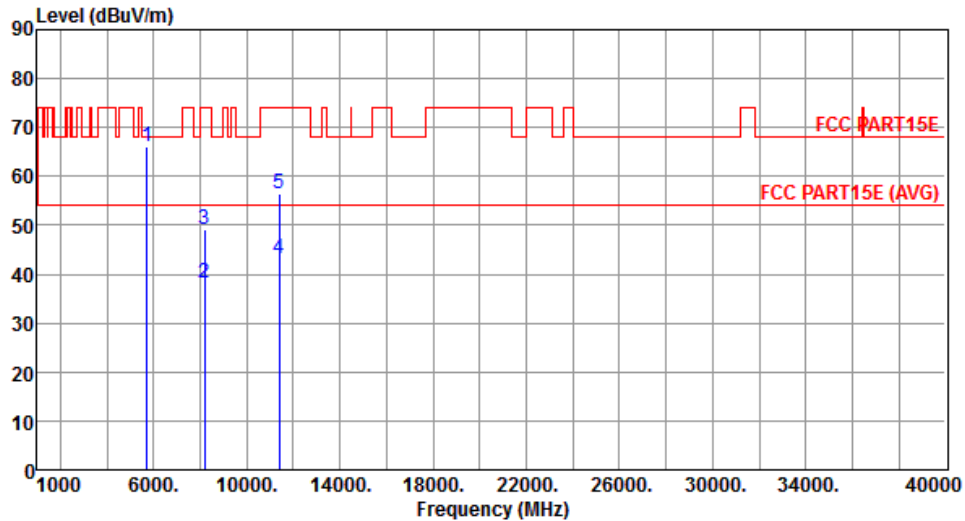
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	63.71	68.20	-4.49	56.62	7.09	Peak	---	---
2	8188.00	37.89	54.00	-16.11	26.37	11.52	Average	---	---
3	8188.00	49.95	74.00	-24.05	38.43	11.52	Peak	---	---
4	11400.00	43.14	54.00	-10.86	25.77	17.37	Average	---	---
5	11400.00	56.84	74.00	-17.16	39.47	17.37	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical	Test Configuration	3



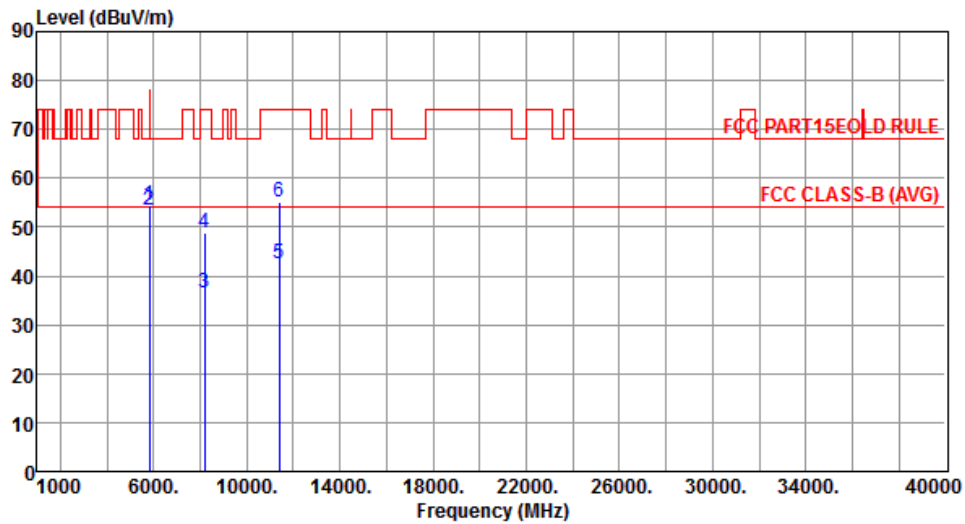
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	66.01	68.20	-2.19	58.92	7.09	Peak	---	---
2	8188.00	38.05	54.00	-15.95	26.53	11.52	Average	---	---
3	8188.00	49.18	74.00	-24.82	37.66	11.52	Peak	---	---
4	11400.00	43.25	54.00	-10.75	25.88	17.37	Average	---	---
5	11400.00	56.55	74.00	-17.45	39.18	17.37	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Horizontal	Test Configuration	3



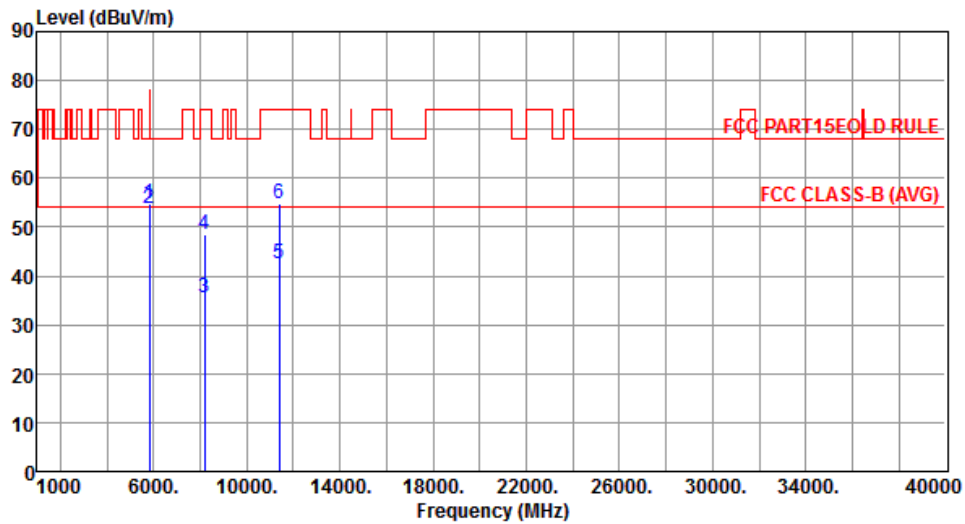
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	54.35	78.20	-23.85	51.41	2.94	Peak	---	---
2	5835.00	53.31	68.20	-14.89	50.35	2.96	Peak	---	---
3	8188.00	36.50	54.00	-17.50	27.34	9.16	Average	---	---
4	8188.00	48.71	74.00	-25.29	39.55	9.16	Peak	---	---
5	11380.00	42.51	54.00	-11.49	26.63	15.88	Average	---	---
6	11380.00	55.10	74.00	-18.90	39.22	15.88	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	54.78	78.20	-23.42	51.84	2.94	Peak	---	---
2	5835.00	53.87	68.20	-14.33	50.91	2.96	Peak	---	---
3	8188.00	35.62	54.00	-18.38	26.46	9.16	Average	---	---
4	8188.00	48.33	74.00	-25.67	39.17	9.16	Peak	---	---
5	11380.00	42.54	54.00	-11.46	26.66	15.88	Average	---	---
6	11380.00	54.94	74.00	-19.06	39.06	15.88	Peak	---	---

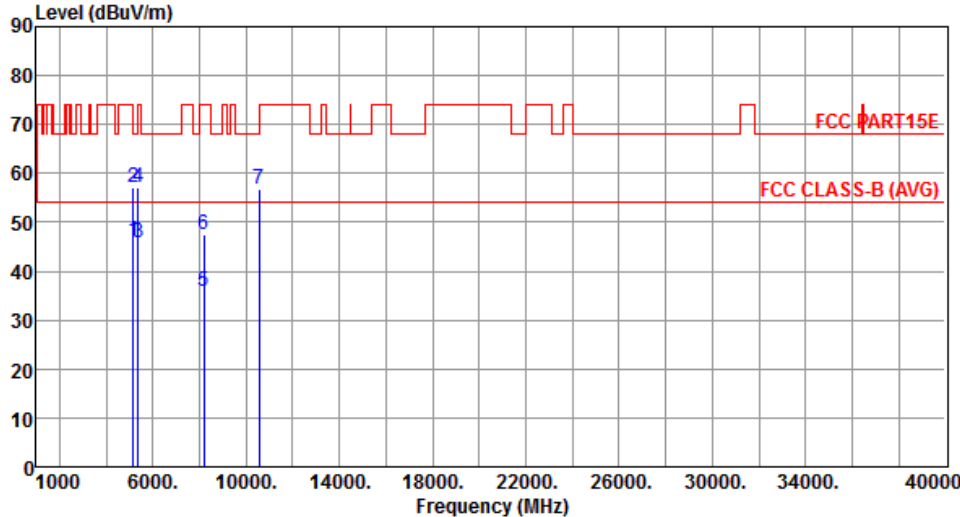
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

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

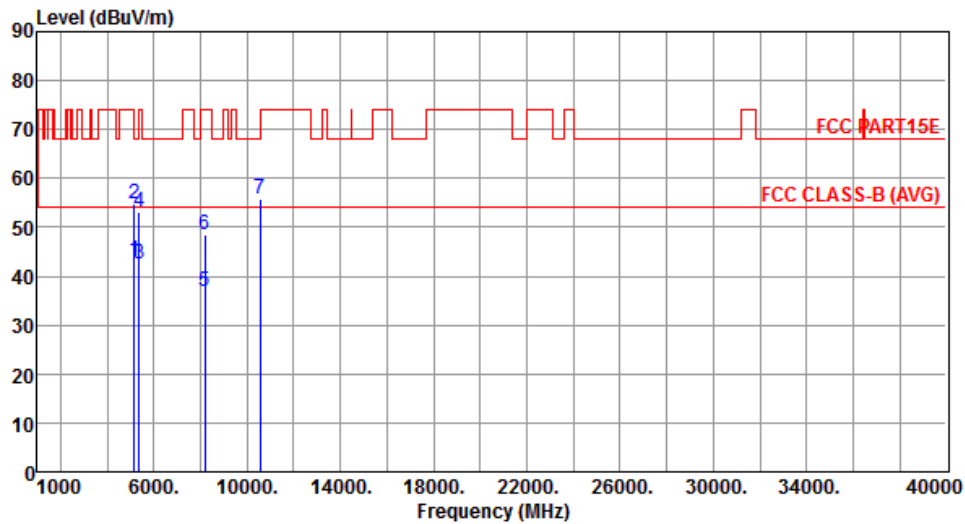
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal	Test Configuration	1



	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	46.12	54.00	-7.88	39.94	6.18	Average	---	---
2	5150.00	57.13	74.00	-16.87	50.95	6.18	Peak	---	---
3	5350.00	45.69	54.00	-8.31	39.18	6.51	Average	---	---
4	5350.00	57.26	74.00	-16.74	50.75	6.51	Peak	---	---
5	8188.00	35.74	54.00	-18.26	24.22	11.52	Average	---	---
6	8188.00	47.58	74.00	-26.42	36.06	11.52	Peak	---	---
7	10540.00	56.86	68.20	-11.34	39.43	17.43	Peak	---	---

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

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical	Test Configuration	1



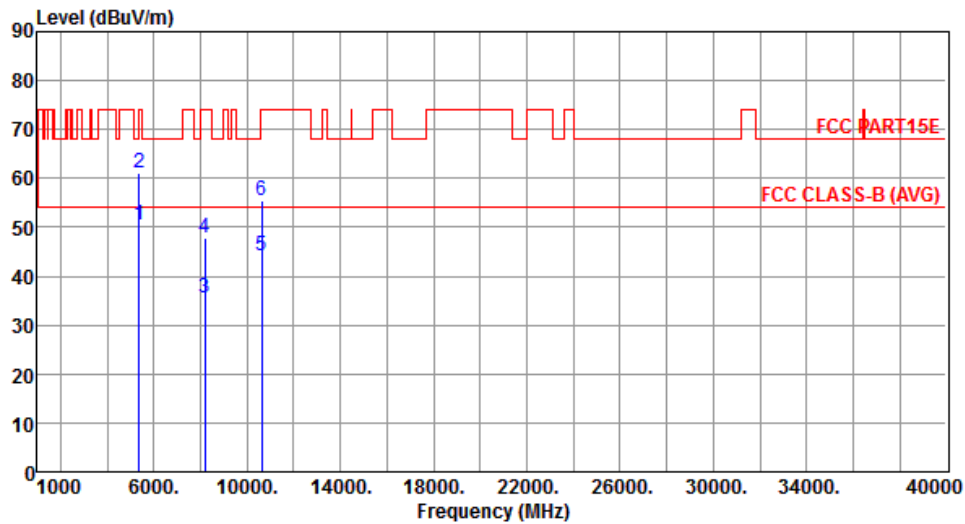
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	43.21	54.00	-10.79	37.03	6.18	Average	---	---
2	5150.00	54.75	74.00	-19.25	48.57	6.18	Peak	---	---
3	5350.00	42.49	54.00	-11.51	35.98	6.51	Average	---	---
4	5350.00	53.03	74.00	-20.97	46.52	6.51	Peak	---	---
5	8188.00	36.78	54.00	-17.22	25.26	11.52	Average	---	---
6	8188.00	48.62	74.00	-25.38	37.10	11.52	Peak	---	---
7	10540.00	55.64	68.20	-12.56	38.21	17.43	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal	Test Configuration	1



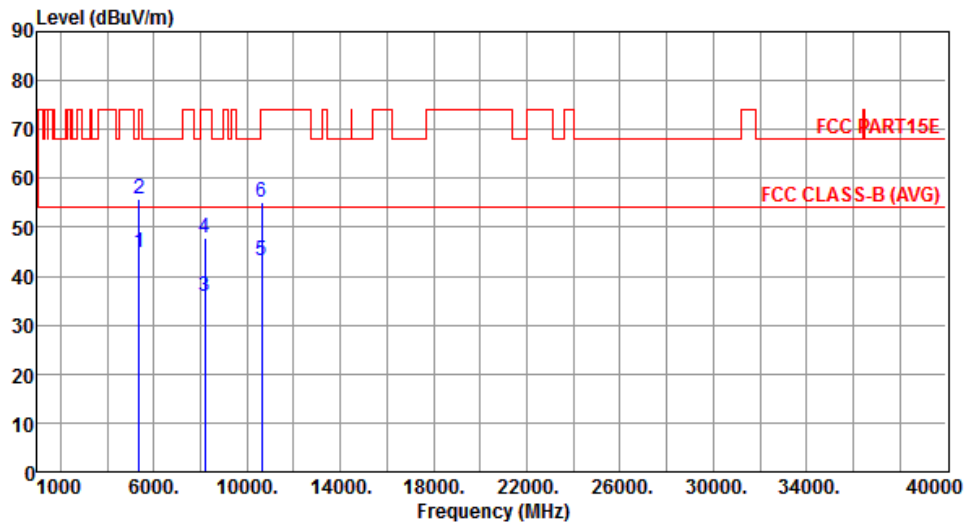
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	50.33	54.00	-3.67	43.82	6.51	Average	---	---
2	5350.00	61.17	74.00	-12.83	54.66	6.51	Peak	---	---
3	8188.00	35.70	54.00	-18.30	24.18	11.52	Average	---	---
4	8188.00	47.75	74.00	-26.25	36.23	11.52	Peak	---	---
5	10620.00	44.18	54.00	-9.82	26.66	17.52	Average	---	---
6	10620.00	55.57	74.00	-18.43	38.05	17.52	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical	Test Configuration	1



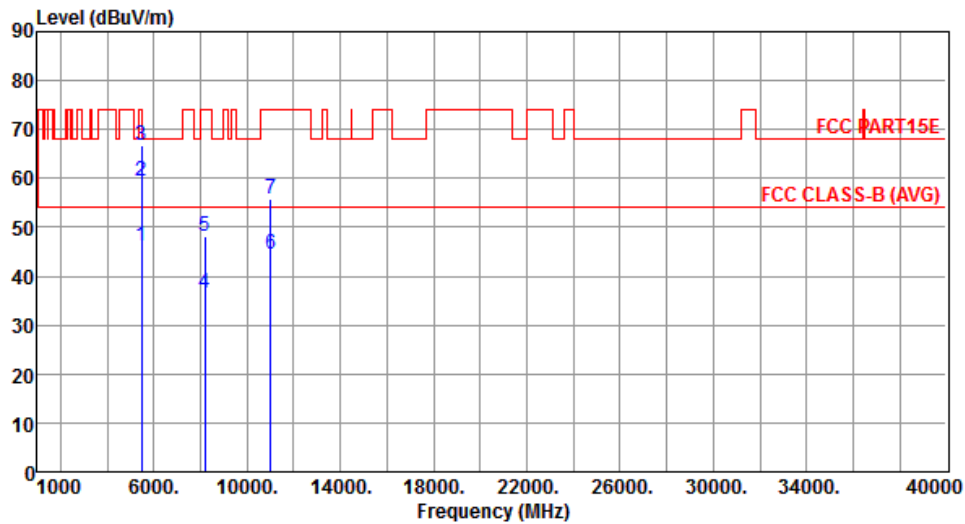
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	44.88	54.00	-9.12	38.37	6.51	Average	---	---
2	5350.00	55.83	74.00	-18.17	49.32	6.51	Peak	---	---
3	8188.00	35.87	54.00	-18.13	24.35	11.52	Average	---	---
4	8188.00	47.79	74.00	-26.21	36.27	11.52	Peak	---	---
5	10620.00	43.21	54.00	-10.79	25.69	17.52	Average	---	---
6	10620.00	55.20	74.00	-18.80	37.68	17.52	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal	Test Configuration	1



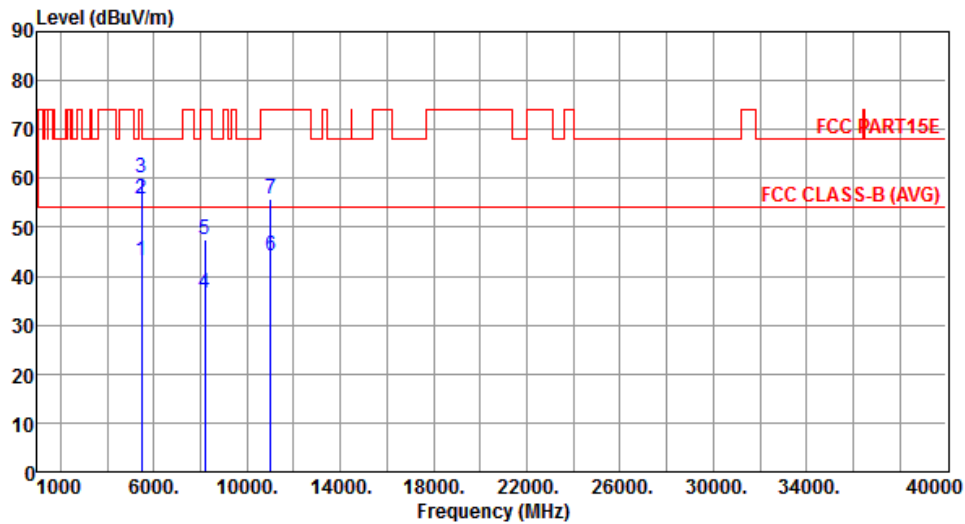
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.10	54.00	-7.90	39.42	6.68	Average	---	---
2	5460.00	59.46	74.00	-14.54	52.78	6.68	Peak	---	---
3	5470.00	66.76	68.20	-1.44	60.06	6.70	Peak	---	---
4	8188.00	36.49	54.00	-17.51	24.97	11.52	Average	---	---
5	8188.00	48.08	74.00	-25.92	36.56	11.52	Peak	---	---
6	11020.00	44.64	54.00	-9.36	26.66	17.98	Average	---	---
7	11020.00	55.86	74.00	-18.14	37.88	17.98	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical	Test Configuration	1



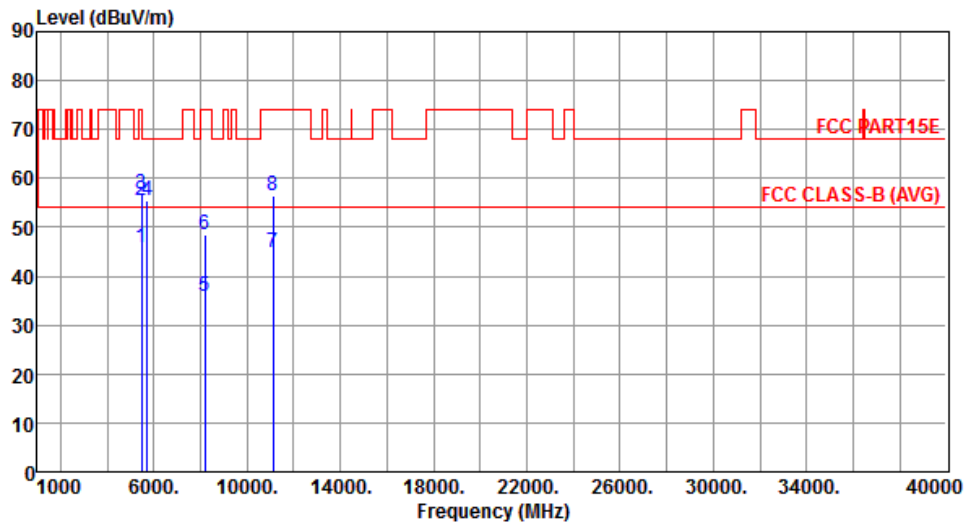
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	43.27	54.00	-10.73	36.59	6.68	Average	---	---
2	5460.00	55.83	74.00	-18.17	49.15	6.68	Peak	---	---
3	5470.00	60.24	68.20	-7.96	53.54	6.70	Peak	---	---
4	8188.00	36.60	54.00	-17.40	25.08	11.52	Average	---	---
5	8188.00	47.64	74.00	-26.36	36.12	11.52	Peak	---	---
6	11020.00	44.08	54.00	-9.92	26.10	17.98	Average	---	---
7	11020.00	55.77	74.00	-18.23	37.79	17.98	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Horizontal	Test Configuration	1



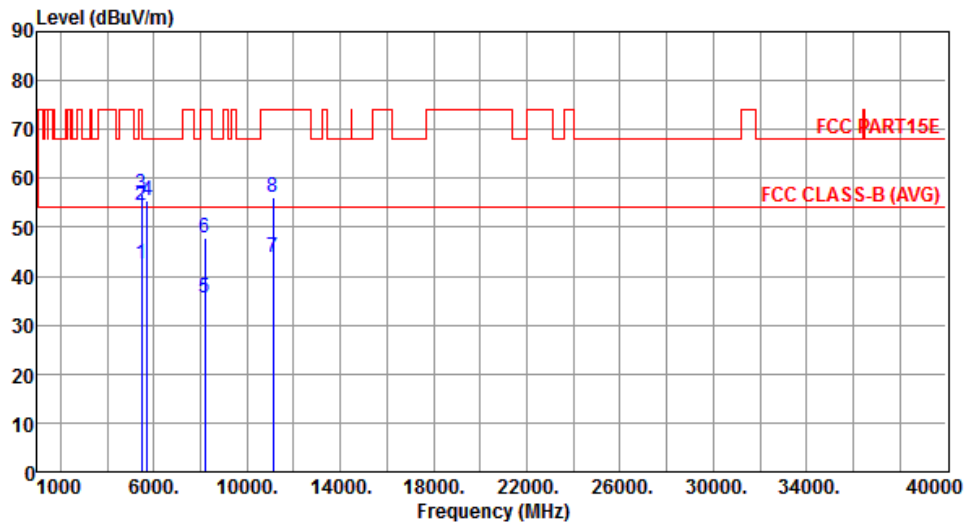
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.73	54.00	-8.27	39.05	6.68	Average	---	---
2	5460.00	55.39	74.00	-18.61	48.71	6.68	Peak	---	---
3	5470.00	56.88	68.20	-11.32	50.18	6.70	Peak	---	---
4	5725.00	55.56	68.20	-12.64	48.47	7.09	Peak	---	---
5	8188.00	35.73	54.00	-18.27	24.21	11.52	Average	---	---
6	8188.00	48.46	74.00	-25.54	36.94	11.52	Peak	---	---
7	11100.00	44.71	54.00	-9.29	26.86	17.85	Average	---	---
8	11100.00	56.42	74.00	-17.58	38.57	17.85	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Vertical	Test Configuration	1



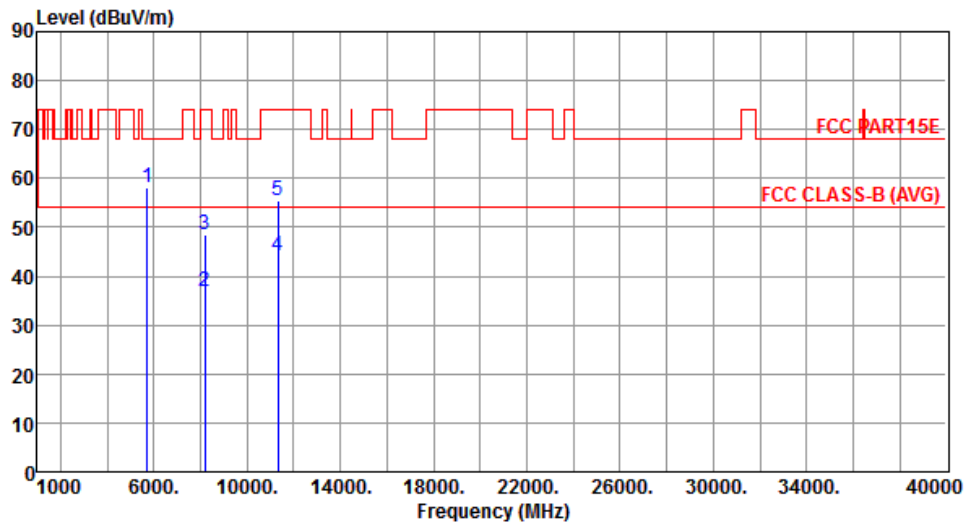
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	42.53	54.00	-11.47	35.85	6.68	Average	---	---
2	5460.00	54.51	74.00	-19.49	47.83	6.68	Peak	---	---
3	5470.00	56.95	68.20	-11.25	50.25	6.70	Peak	---	---
4	5725.00	55.31	68.20	-12.89	48.22	7.09	Peak	---	---
5	8188.00	35.67	54.00	-18.33	24.15	11.52	Average	---	---
6	8188.00	47.78	74.00	-26.22	36.26	11.52	Peak	---	---
7	11100.00	43.97	54.00	-10.03	26.12	17.85	Average	---	---
8	11100.00	56.15	74.00	-17.85	38.30	17.85	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal	Test Configuration	1



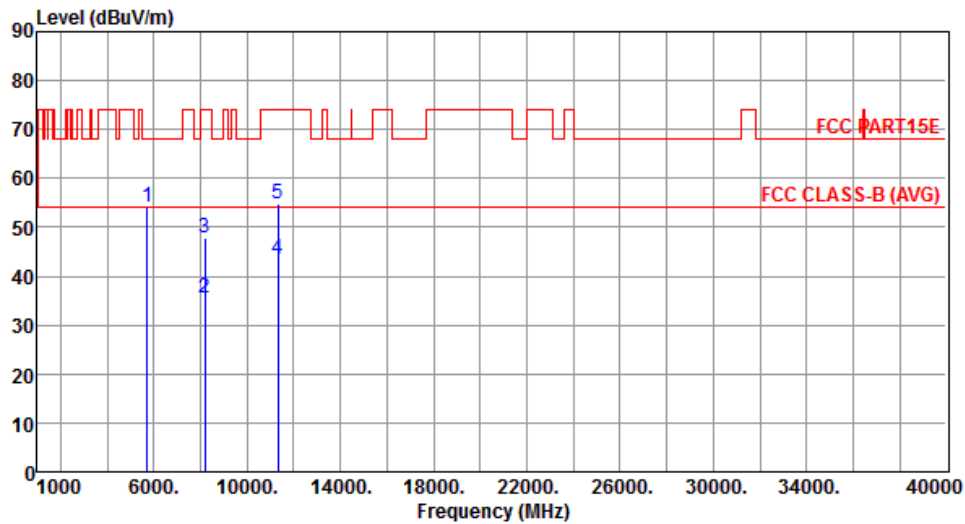
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	58.04	68.20	-10.16	50.95	7.09	Peak	---	---
2	8188.00	36.71	54.00	-17.29	25.19	11.52	Average	---	---
3	8188.00	48.58	74.00	-25.42	37.06	11.52	Peak	---	---
4	11340.00	44.10	54.00	-9.90	26.63	17.47	Average	---	---
5	11340.00	55.52	74.00	-18.48	38.05	17.47	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical	Test Configuration	1



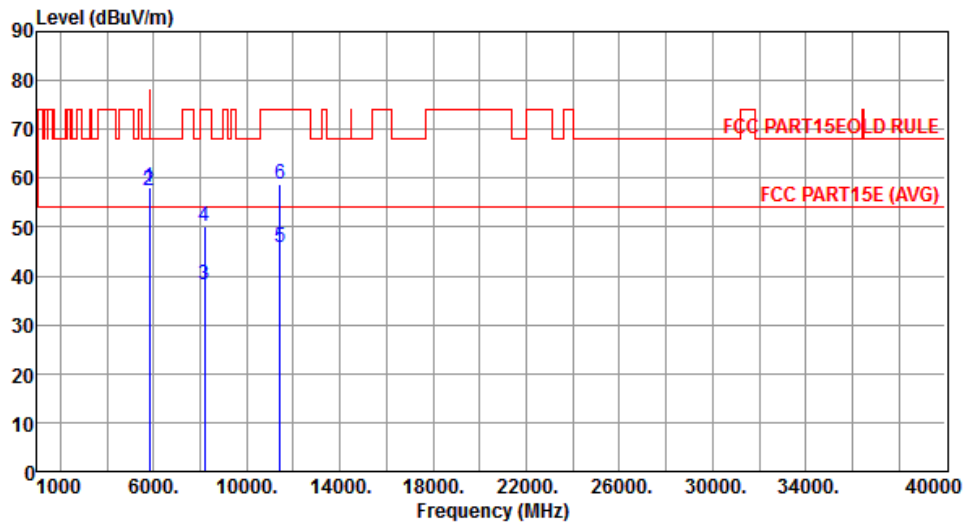
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	54.23	68.20	-13.97	47.14	7.09	Peak	---	---
2	8188.00	35.60	54.00	-18.40	24.08	11.52	Average	---	---
3	8188.00	47.91	74.00	-26.09	36.39	11.52	Peak	---	---
4	11340.00	43.36	54.00	-10.64	25.89	17.47	Average	---	---
5	11340.00	54.87	74.00	-19.13	37.40	17.47	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal	Test Configuration	1



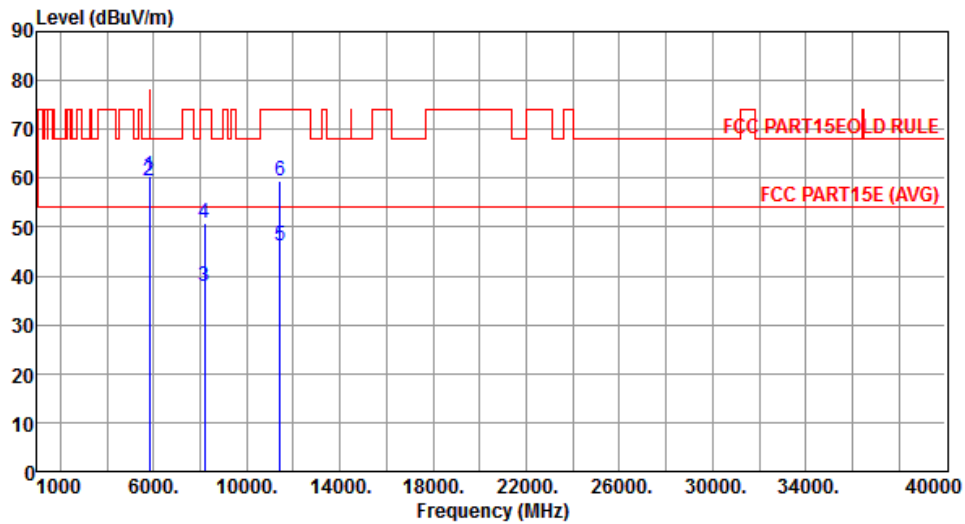
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	57.96	78.20	-20.24	50.74	7.22	Peak	---	---
2	5835.00	57.56	68.20	-10.64	50.33	7.23	Peak	---	---
3	8188.00	38.07	54.00	-15.93	26.55	11.52	Average	---	---
4	8188.00	50.30	74.00	-23.70	38.78	11.52	Peak	---	---
5	11440.00	45.95	54.00	-8.05	28.64	17.31	Average	---	---
6	11440.00	58.70	74.00	-15.30	41.39	17.31	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical	Test Configuration	1



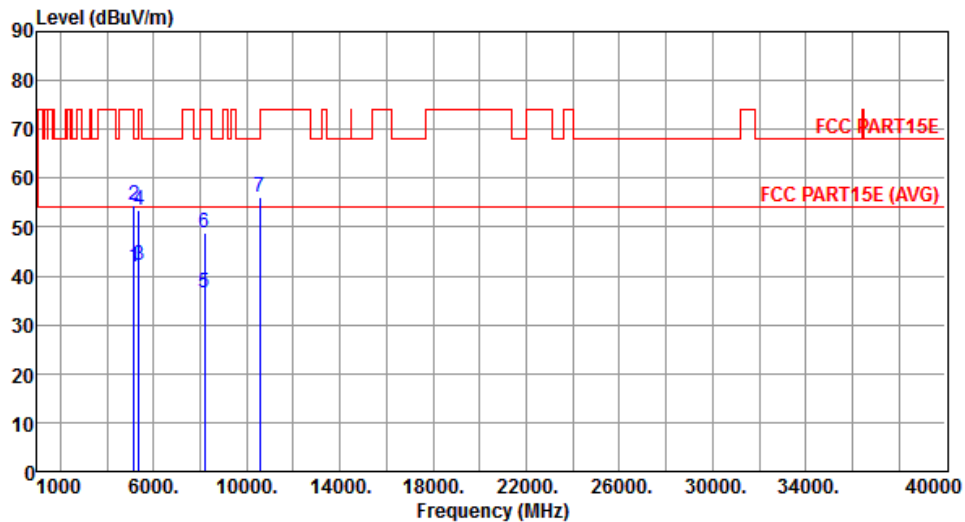
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	60.40	78.20	-17.80	53.18	7.22	Peak	---	---
2	5835.00	59.47	68.20	-8.73	52.24	7.23	Peak	---	---
3	8188.00	37.88	54.00	-16.12	26.36	11.52	Average	---	---
4	8188.00	50.74	74.00	-23.26	39.22	11.52	Peak	---	---
5	11440.00	46.15	54.00	-7.85	28.84	17.31	Average	---	---
6	11440.00	59.43	74.00	-14.57	42.12	17.31	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal	Test Configuration	3



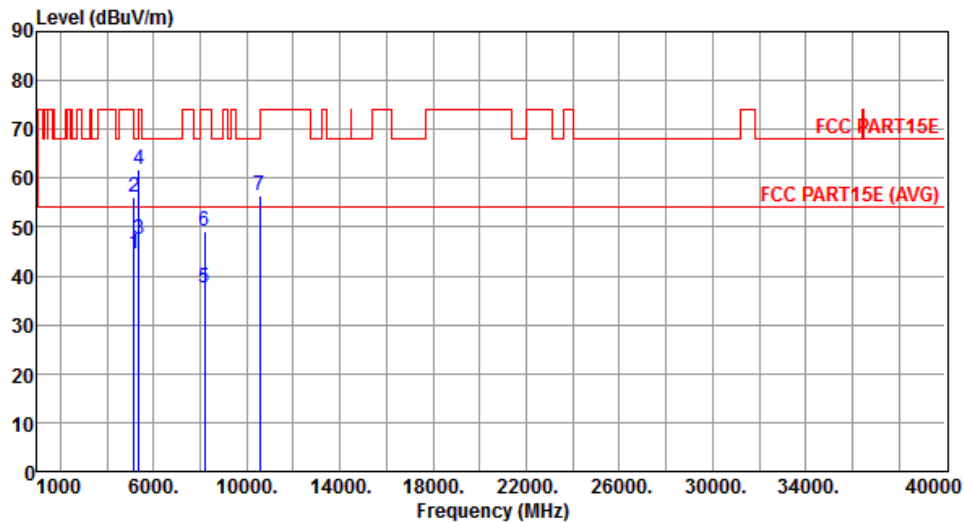
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	41.87	54.00	-12.13	35.69	6.18	Average	---	---
2	5150.00	54.41	74.00	-19.59	48.23	6.18	Peak	---	---
3	5350.00	42.03	54.00	-11.97	35.52	6.51	Average	---	---
4	5350.00	53.35	74.00	-20.65	46.84	6.51	Peak	---	---
5	8188.00	36.57	54.00	-17.43	25.05	11.52	Average	---	---
6	8188.00	48.66	74.00	-25.34	37.14	11.52	Peak	---	---
7	10540.00	55.98	68.20	-12.22	38.55	17.43	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical	Test Configuration	3



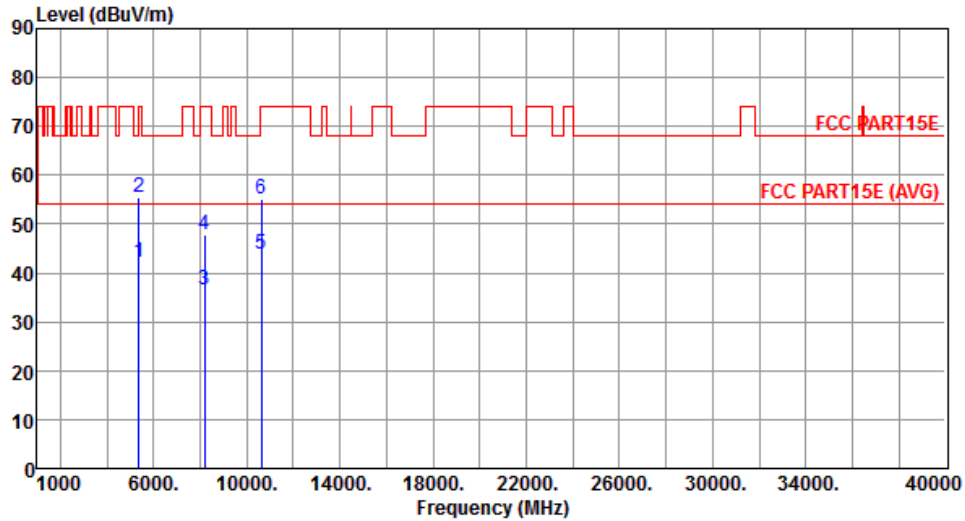
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.37	54.00	-9.63	38.19	6.18	Average	---	---
2	5150.00	56.27	74.00	-17.73	50.09	6.18	Peak	---	---
3	5350.00	47.65	54.00	-6.35	41.14	6.51	Average	---	---
4	5350.00	61.62	74.00	-12.38	55.11	6.51	Peak	---	---
5	8188.00	37.39	54.00	-16.61	25.87	11.52	Average	---	---
6	8188.00	49.08	74.00	-24.92	37.56	11.52	Peak	---	---
7	10540.00	56.61	68.20	-11.59	39.18	17.43	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal	Test Configuration	3



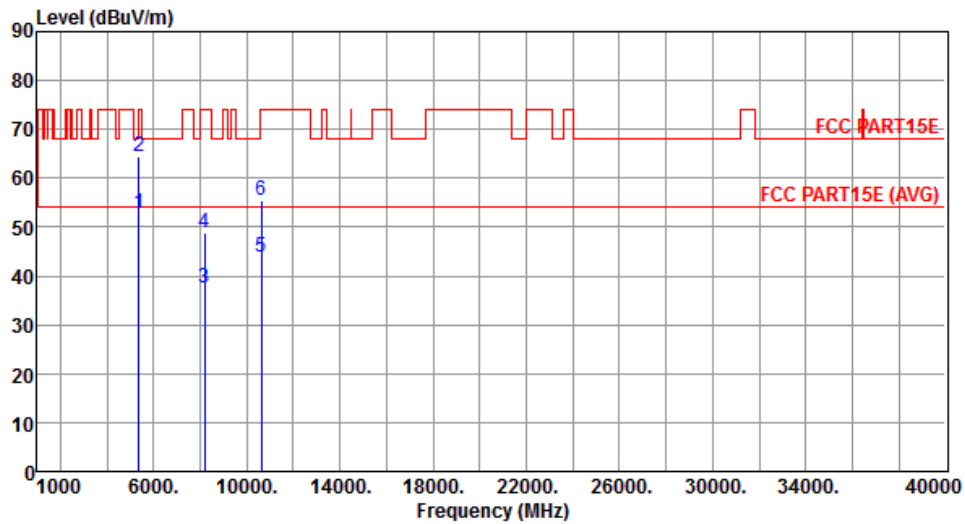
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	42.17	54.00	-11.83	35.66	6.51	Average	---	---
2	5350.00	55.33	74.00	-18.67	48.82	6.51	Peak	---	---
3	8188.00	36.64	54.00	-17.36	25.12	11.52	Average	---	---
4	8188.00	47.79	74.00	-26.21	36.27	11.52	Peak	---	---
5	10620.00	43.87	54.00	-10.13	26.35	17.52	Average	---	---
6	10620.00	55.18	74.00	-18.82	37.66	17.52	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical	Test Configuration	3



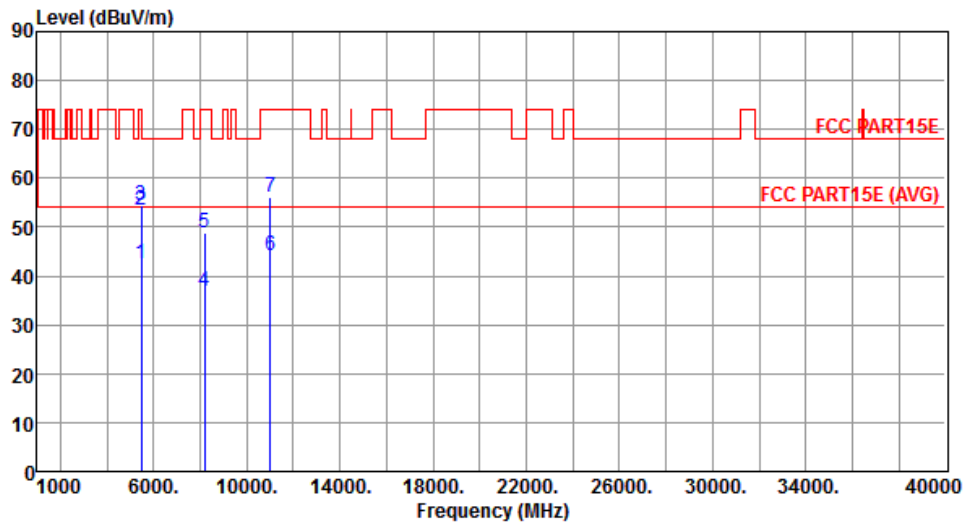
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.97	54.00	-1.03	46.46	6.51	Average	---	---
2	5350.00	64.54	74.00	-9.46	58.03	6.51	Peak	---	---
3	8188.00	37.39	54.00	-16.61	25.87	11.52	Average	---	---
4	8188.00	48.68	74.00	-25.32	37.16	11.52	Peak	---	---
5	10620.00	44.00	54.00	-10.00	26.48	17.52	Average	---	---
6	10620.00	55.40	74.00	-18.60	37.88	17.52	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal	Test Configuration	3



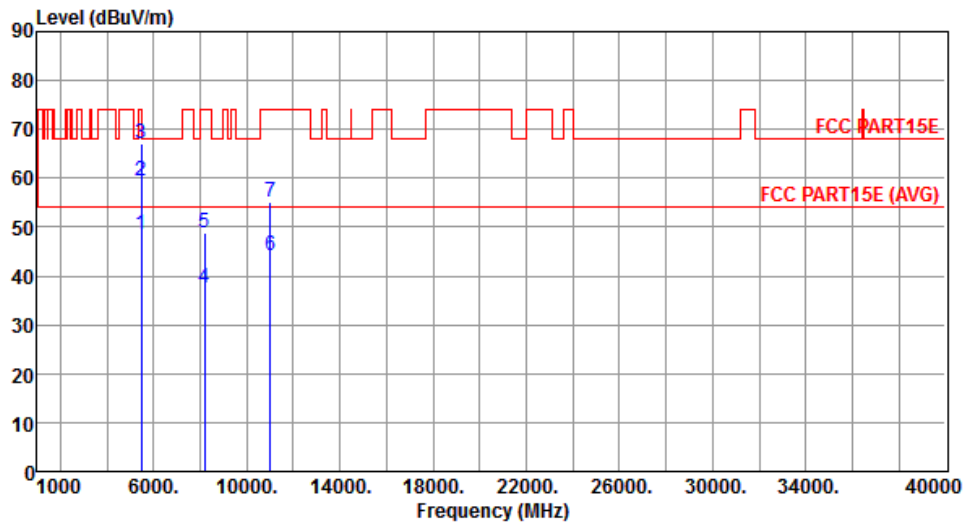
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	42.44	54.00	-11.56	35.76	6.68	Average	---	---
2	5460.00	53.44	74.00	-20.56	46.76	6.68	Peak	---	---
3	5470.00	54.40	68.20	-13.80	47.70	6.70	Peak	---	---
4	8188.00	36.79	54.00	-17.21	25.27	11.52	Average	---	---
5	8188.00	48.71	74.00	-25.29	37.19	11.52	Peak	---	---
6	11020.00	44.04	54.00	-9.96	26.06	17.98	Average	---	---
7	11020.00	56.03	74.00	-17.97	38.05	17.98	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical	Test Configuration	3



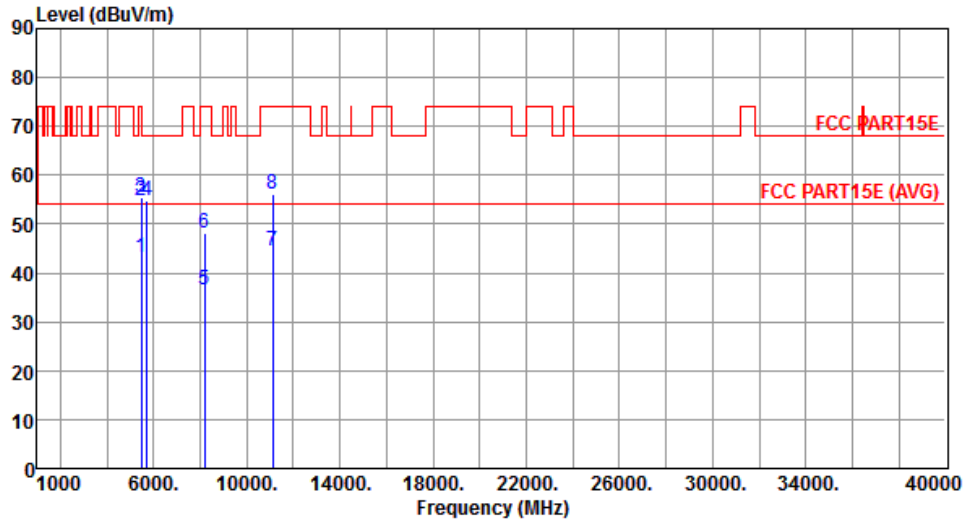
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.39	54.00	-5.61	41.71	6.68	Average	---	---
2	5460.00	59.53	74.00	-14.47	52.85	6.68	Peak	---	---
3	5470.00	67.20	68.20	-1.00	60.50	6.70	Peak	---	---
4	8188.00	37.57	54.00	-16.43	26.05	11.52	Average	---	---
5	8188.00	48.78	74.00	-25.22	37.26	11.52	Peak	---	---
6	11020.00	44.13	54.00	-9.87	26.15	17.98	Average	---	---
7	11020.00	55.07	74.00	-18.93	37.09	17.98	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Horizontal	Test Configuration	3



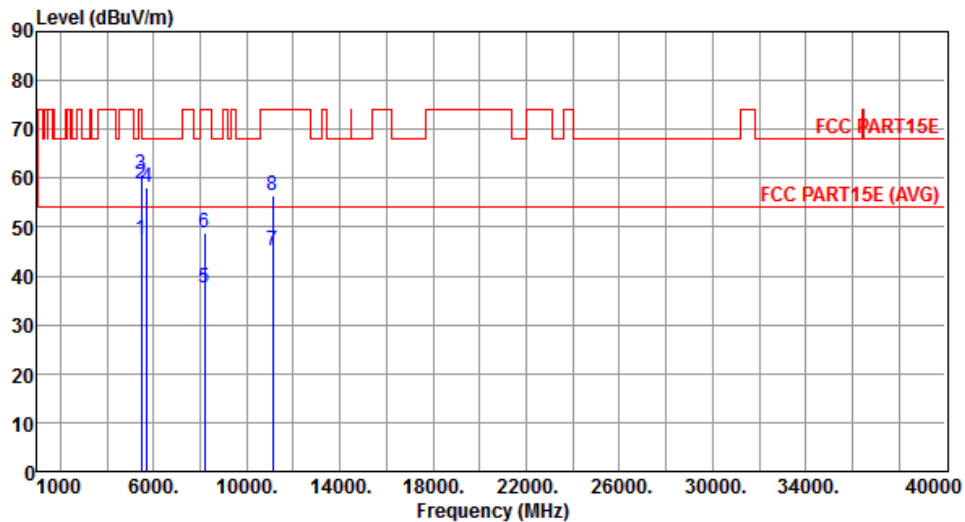
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	43.16	54.00	-10.84	36.48	6.68	Average	---	---
2	5460.00	54.76	74.00	-19.24	48.08	6.68	Peak	---	---
3	5470.00	55.61	68.20	-12.59	48.91	6.70	Peak	---	---
4	5725.00	54.90	68.20	-13.30	47.81	7.09	Peak	---	---
5	8188.00	36.68	54.00	-17.32	25.16	11.52	Average	---	---
6	8188.00	48.27	74.00	-25.73	36.75	11.52	Peak	---	---
7	11100.00	44.65	54.00	-9.35	26.80	17.85	Average	---	---
8	11100.00	56.22	74.00	-17.78	38.37	17.85	Peak	---	---

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

*Factor includes antenna factor, cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Vertical	Test Configuration	3



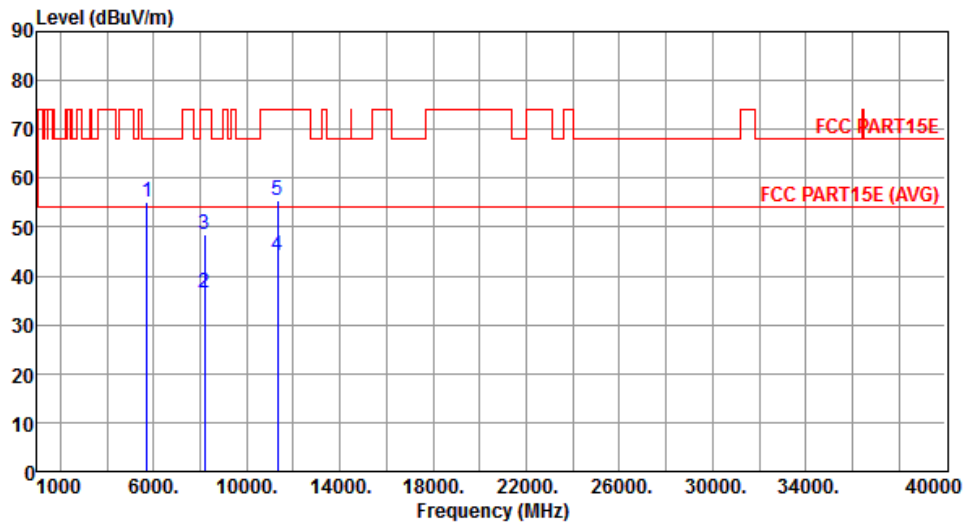
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.51	54.00	-6.49	40.83	6.68	Average	---	---
2	5460.00	58.89	74.00	-15.11	52.21	6.68	Peak	---	---
3	5470.00	60.74	68.20	-7.46	54.04	6.70	Peak	---	---
4	5725.00	57.96	68.20	-10.24	50.87	7.09	Peak	---	---
5	8188.00	37.57	54.00	-16.43	26.05	11.52	Average	---	---
6	8188.00	48.82	74.00	-25.18	37.30	11.52	Peak	---	---
7	11100.00	45.25	54.00	-8.75	27.40	17.85	Average	---	---
8	11100.00	56.47	74.00	-17.53	38.62	17.85	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal	Test Configuration	3



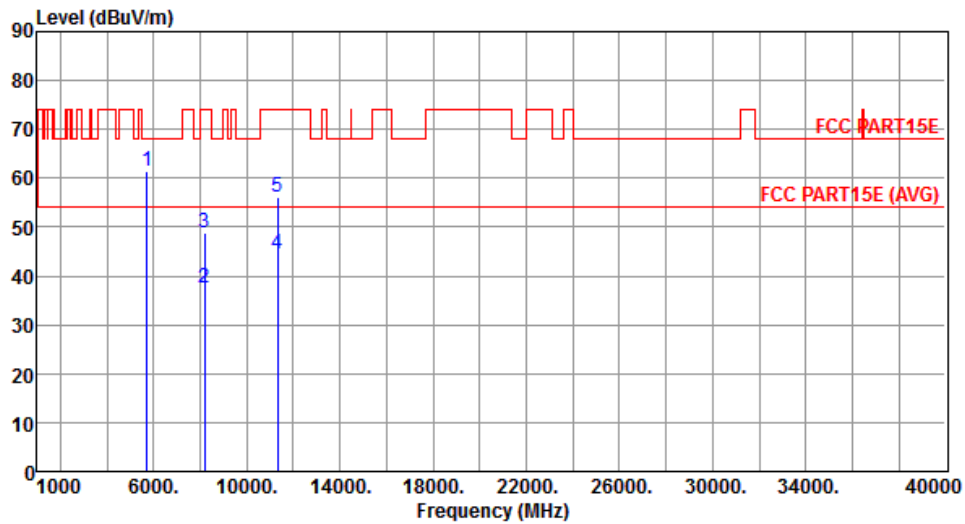
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	55.06	68.20	-13.14	47.97	7.09	Peak	---	---
2	8188.00	36.58	54.00	-17.42	25.06	11.52	Average	---	---
3	8188.00	48.39	74.00	-25.61	36.87	11.52	Peak	---	---
4	11340.00	44.14	54.00	-9.86	26.67	17.47	Average	---	---
5	11340.00	55.40	74.00	-18.60	37.93	17.47	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical	Test Configuration	3



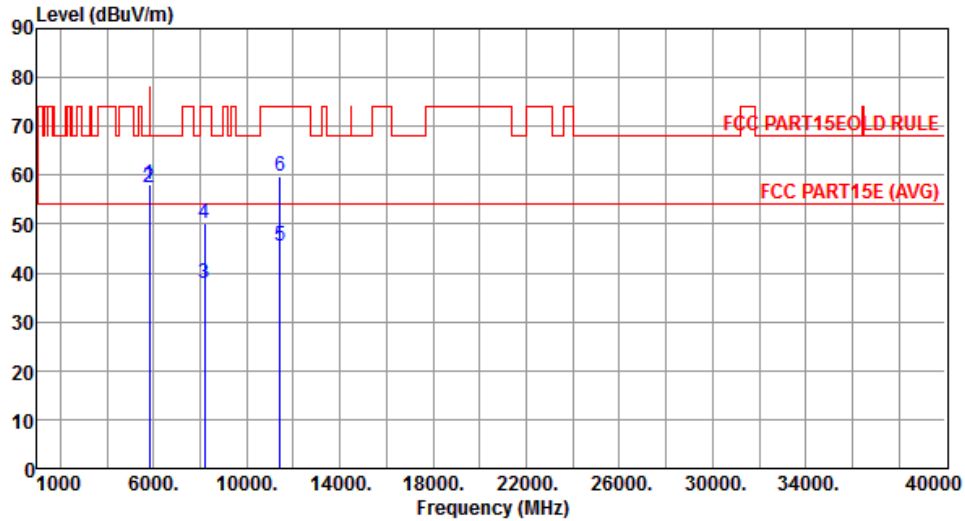
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	61.38	68.20	-6.82	54.29	7.09	Peak	---	---
2	8188.00	37.58	54.00	-16.42	26.06	11.52	Average	---	---
3	8188.00	48.79	74.00	-25.21	37.27	11.52	Peak	---	---
4	11340.00	44.36	54.00	-9.64	26.89	17.47	Average	---	---
5	11340.00	56.20	74.00	-17.80	38.73	17.47	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal	Test Configuration	3



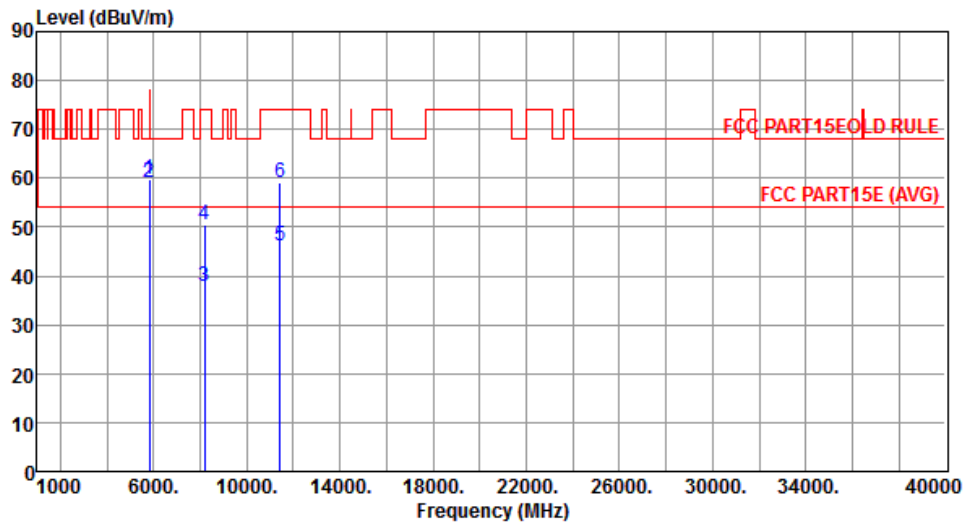
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	58.17	78.20	-20.03	50.95	7.22	Peak	---	---
2	5835.00	57.54	68.20	-10.66	50.31	7.23	Peak	---	---
3	8188.00	37.76	54.00	-16.24	26.24	11.52	Average	---	---
4	8188.00	50.05	74.00	-23.95	38.53	11.52	Peak	---	---
5	11440.00	45.63	54.00	-8.37	28.32	17.31	Average	---	---
6	11440.00	59.78	74.00	-14.22	42.47	17.31	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	59.68	78.20	-18.52	52.46	7.22	Peak	---	---
2	5835.00	59.26	68.20	-8.94	52.03	7.23	Peak	---	---
3	8188.00	37.95	54.00	-16.05	26.43	11.52	Average	---	---
4	8188.00	50.44	74.00	-23.56	38.92	11.52	Peak	---	---
5	11440.00	46.15	54.00	-7.85	28.84	17.31	Average	---	---
6	11440.00	59.04	74.00	-14.96	41.73	17.31	Peak	---	---

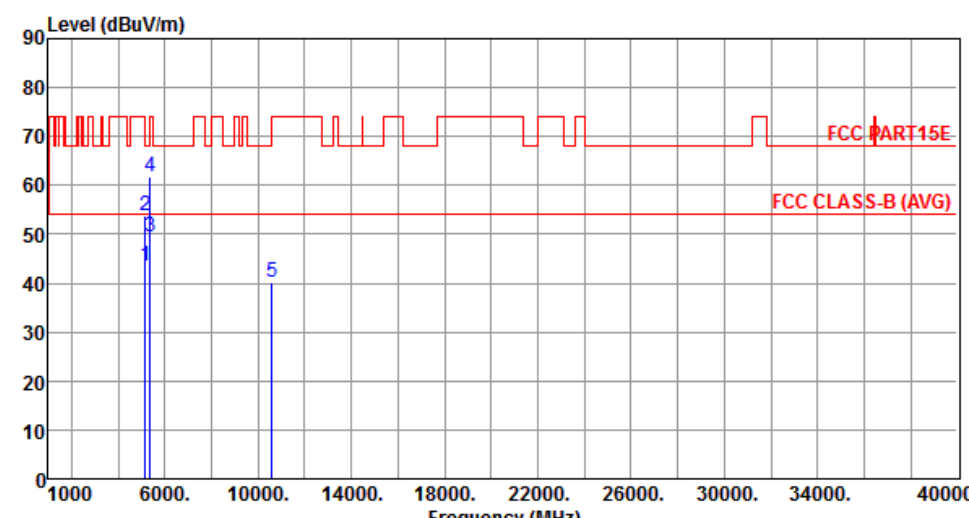
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

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

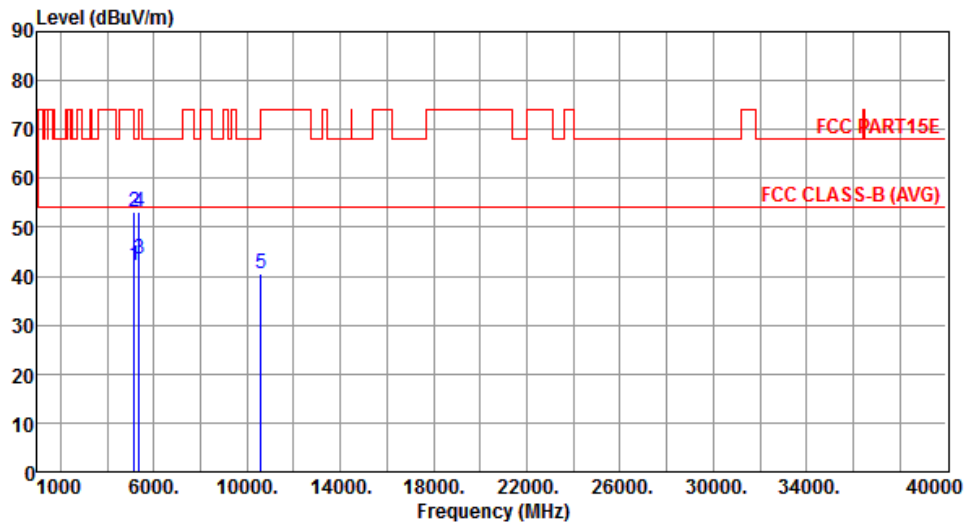
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal	Test Configuration	1



	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	43.41	54.00	-10.59	37.23	6.18	Average	---	---
2	5150.00	53.87	74.00	-20.13	47.69	6.18	Peak	---	---
3	5350.00	49.39	54.00	-4.61	42.88	6.51	Average	---	---
4	5350.00	61.87	74.00	-12.13	55.36	6.51	Peak	---	---
5	10580.00	40.33	68.20	-27.87	22.85	17.48	Peak	---	---

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

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical	Test Configuration	1



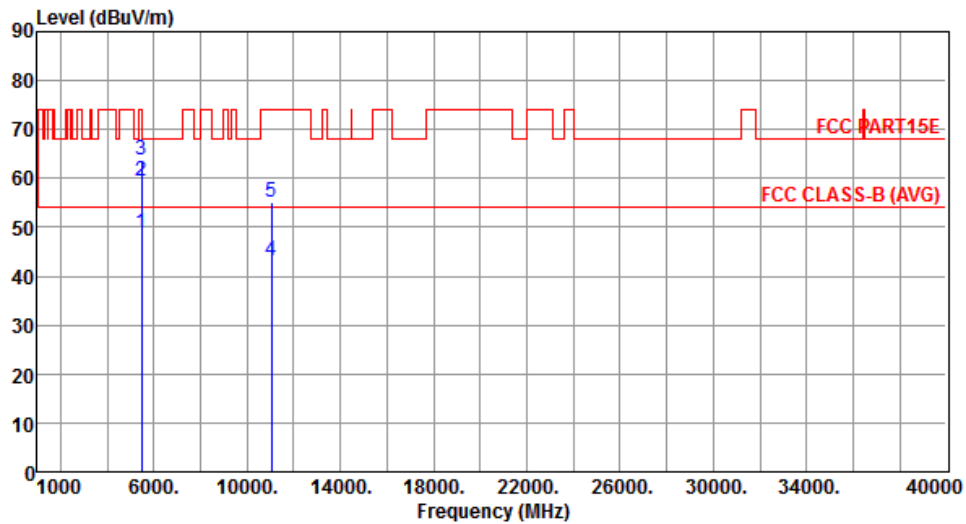
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	42.22	54.00	-11.78	36.04	6.18	Average	---	---
2	5150.00	53.06	74.00	-20.94	46.88	6.18	Peak	---	---
3	5350.00	43.58	54.00	-10.42	37.07	6.51	Average	---	---
4	5350.00	53.06	74.00	-20.94	46.55	6.51	Peak	---	---
5	10580.00	40.38	68.20	-27.82	22.90	17.48	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal	Test Configuration	1



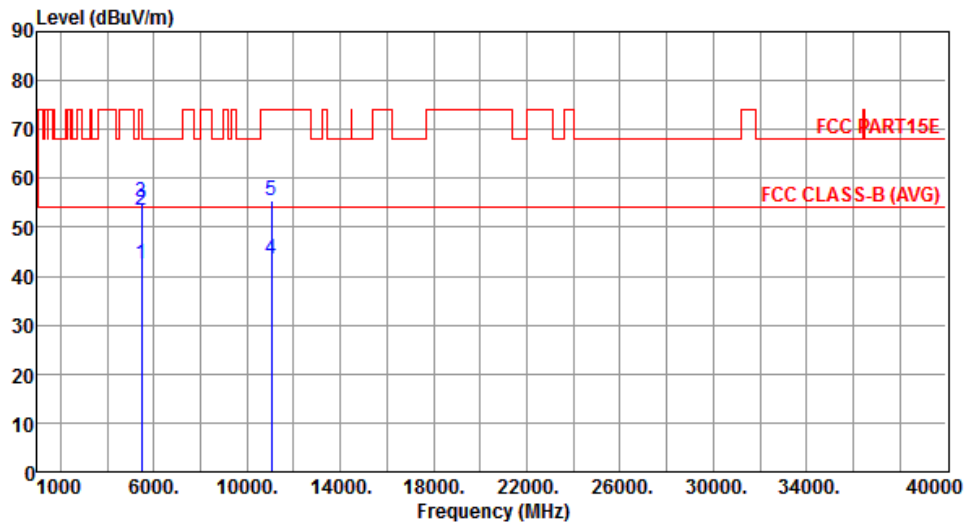
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.85	54.00	-5.15	42.17	6.68	Average	---	---
2	5460.00	59.60	74.00	-14.40	52.92	6.68	Peak	---	---
3	5470.00	63.81	68.20	-4.39	57.11	6.70	Peak	---	---
4	11060.00	43.05	54.00	-10.95	25.14	17.91	Average	---	---
5	11060.00	55.08	74.00	-18.92	37.17	17.91	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical	Test Configuration	1



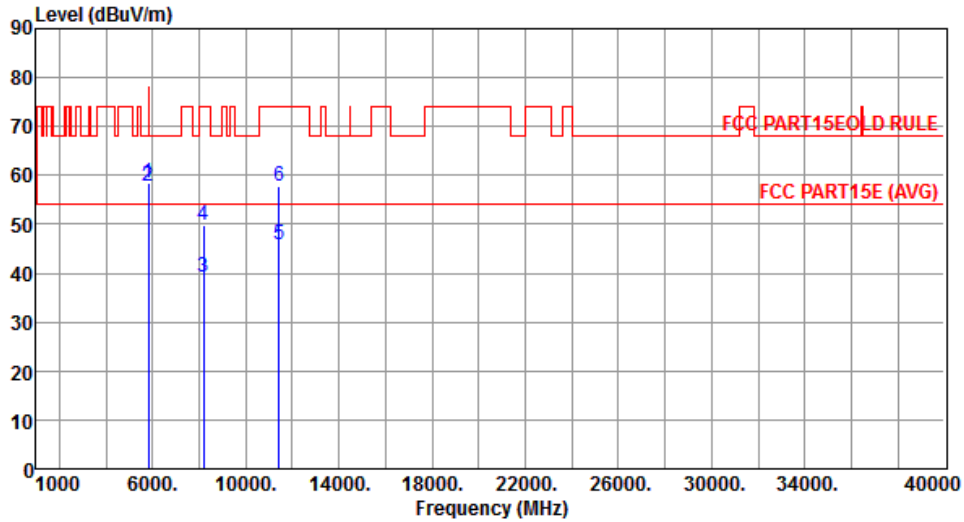
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	42.56	54.00	-11.44	35.88	6.68	Average	---	---
2	5460.00	53.42	74.00	-20.58	46.74	6.68	Peak	---	---
3	5470.00	55.11	68.20	-13.09	48.41	6.70	Peak	---	---
4	11060.00	43.36	54.00	-10.64	25.45	17.91	Average	---	---
5	11060.00	55.47	74.00	-18.53	37.56	17.91	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

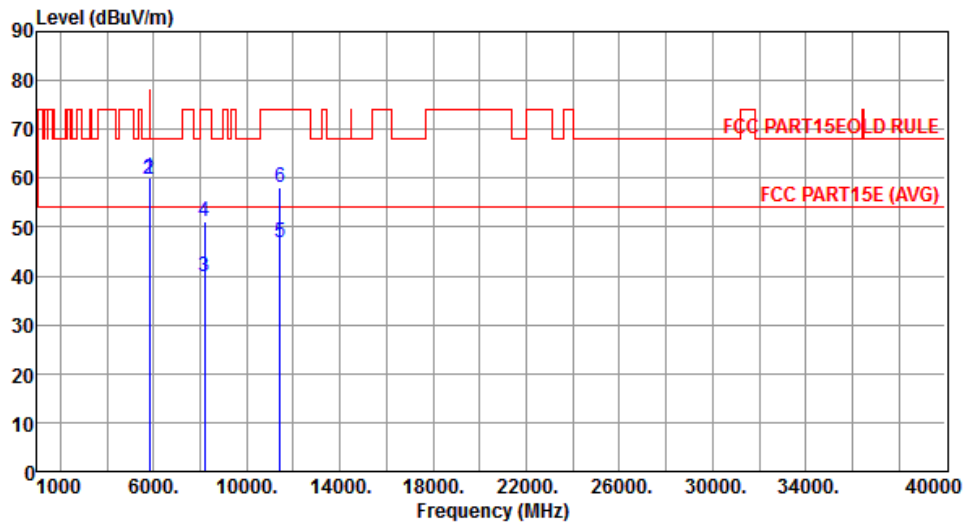
Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	58.56	78.20	-19.64	51.34	7.22	Peak	---	---
2	5835.00	57.65	68.20	-10.55	50.42	7.23	Peak	---	---
3	8188.00	39.10	54.00	-14.90	27.58	11.52	Average	---	---
4	8188.00	49.68	74.00	-24.32	38.16	11.52	Peak	---	---
5	11420.00	45.93	54.00	-8.07	28.58	17.35	Average	---	---
6	11420.00	57.80	74.00	-16.20	40.45	17.35	Peak	---	---

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

Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Vertical	Test Configuration	1



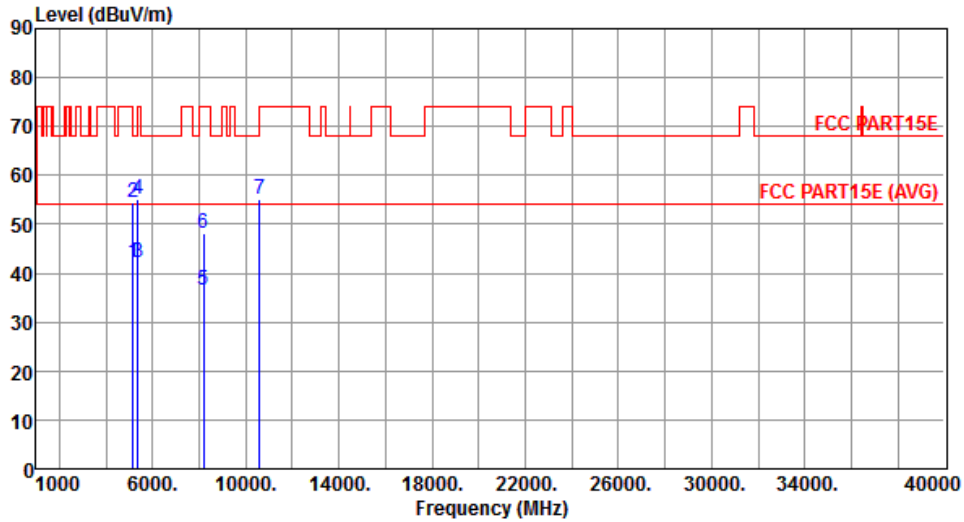
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	60.14	78.20	-18.06	52.92	7.22	Peak	---	---
2	5835.00	59.65	68.20	-8.55	52.42	7.23	Peak	---	---
3	8188.00	39.74	54.00	-14.26	28.22	11.52	Average	---	---
4	8188.00	51.12	74.00	-22.88	39.60	11.52	Peak	---	---
5	11420.00	46.85	54.00	-7.15	29.50	17.35	Average	---	---
6	11420.00	58.28	74.00	-15.72	40.93	17.35	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

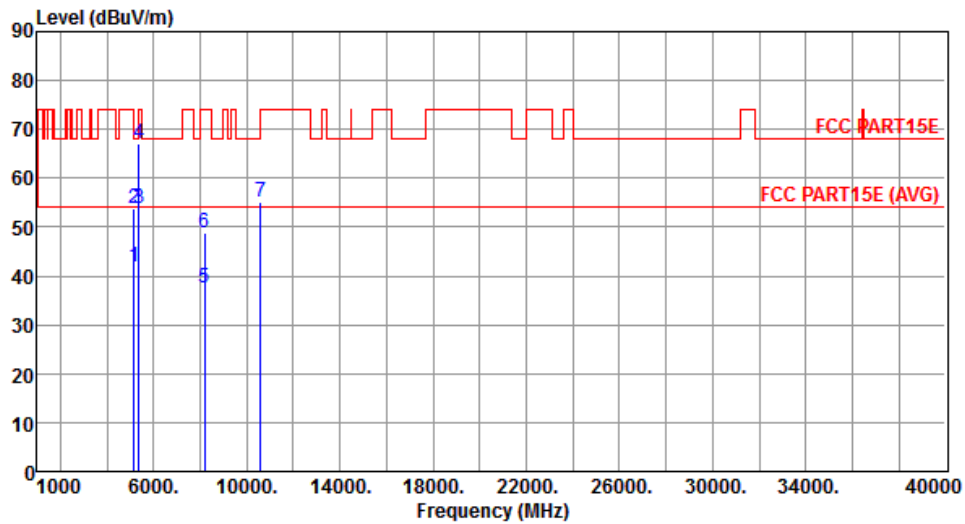
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal	Test Configuration	3



	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	42.22	54.00	-11.78	36.04	6.18	Average	---	---
2	5150.00	54.42	74.00	-19.58	48.24	6.18	Peak	---	---
3	5350.00	42.22	54.00	-11.78	35.71	6.51	Average	---	---
4	5350.00	55.12	74.00	-18.88	48.61	6.51	Peak	---	---
5	8188.00	36.68	54.00	-17.32	25.16	11.52	Average	---	---
6	8188.00	48.08	74.00	-25.92	36.56	11.52	Peak	---	---
7	10580.00	55.28	68.20	-12.92	37.80	17.48	Peak	---	---

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

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical	Test Configuration	3



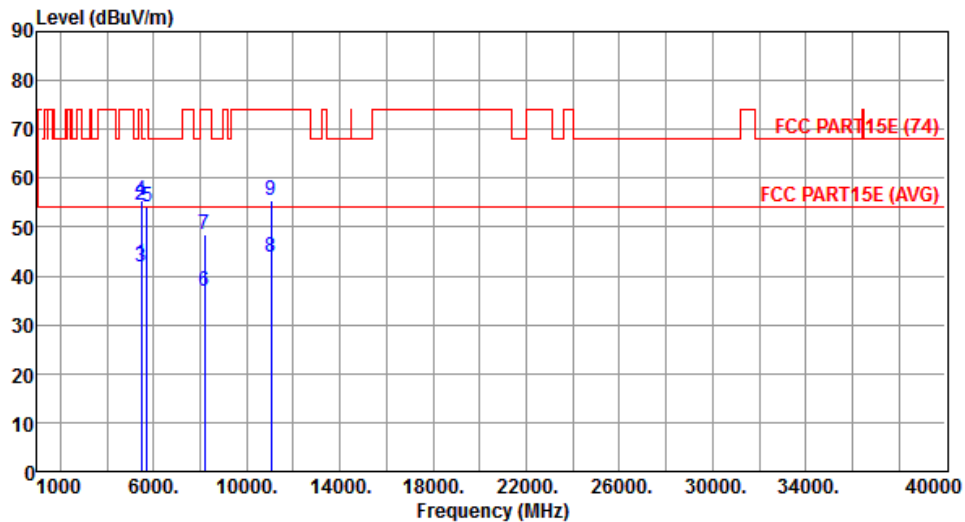
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	41.72	54.00	-12.28	35.54	6.18	Average	---	---
2	5150.00	53.66	74.00	-20.34	47.48	6.18	Peak	---	---
3	5350.00	53.73	54.00	-0.27	47.22	6.51	Average	---	---
4	5350.00	67.11	74.00	-6.89	60.60	6.51	Peak	---	---
5	8188.00	37.39	54.00	-16.61	25.87	11.52	Average	---	---
6	8188.00	48.69	74.00	-25.31	37.17	11.52	Peak	---	---
7	10580.00	55.02	68.20	-13.18	37.54	17.48	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal	Test Configuration	3



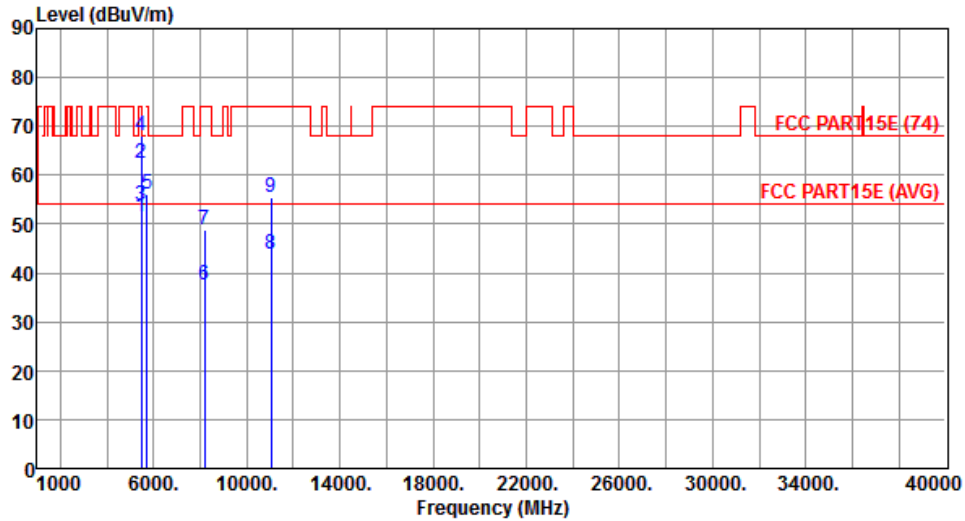
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	42.51	54.00	-11.49	35.83	6.68	Average	---	---
2	5460.00	54.30	74.00	-19.70	47.62	6.68	Peak	---	---
3	5470.00	41.97	54.00	-12.03	35.27	6.70	Average	---	---
4	5470.00	55.40	74.00	-18.60	48.70	6.70	Peak	---	---
5	5725.00	54.10	74.00	-19.90	47.01	7.09	Peak	---	---
6	8188.00	36.80	54.00	-17.20	25.28	11.52	Average	---	---
7	8188.00	48.49	74.00	-25.51	36.97	11.52	Peak	---	---
8	11060.00	43.99	54.00	-10.01	26.08	17.91	Average	---	---
9	11060.00	55.46	74.00	-18.54	37.55	17.91	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical	Test Configuration	3



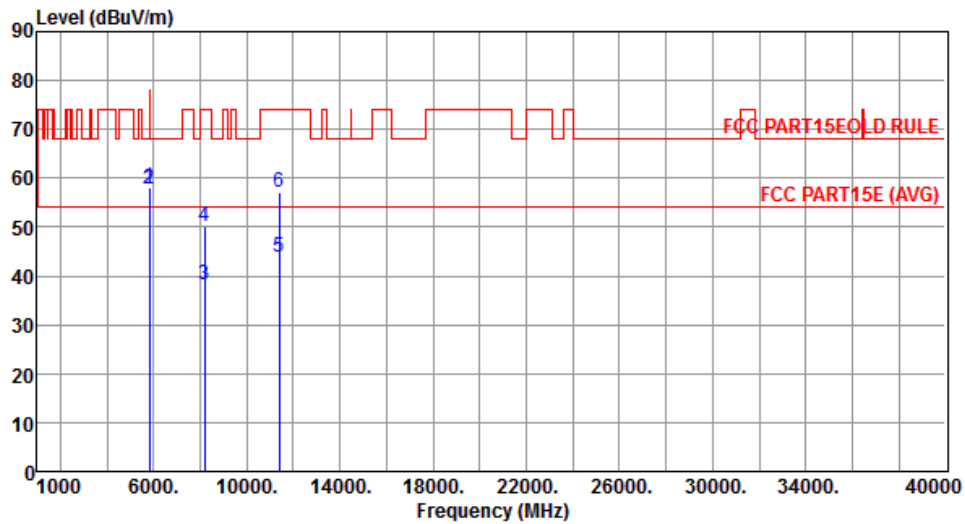
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	51.46	54.00	-2.54	44.78	6.68	Average	---	---
2	5460.00	62.29	74.00	-11.71	55.61	6.68	Peak	---	---
3	5470.00	53.77	54.00	-0.23	47.07	6.70	Average	---	---
4	5470.00	68.14	74.00	-5.86	61.44	6.70	Peak	---	---
5	5725.00	56.04	74.00	-17.96	48.95	7.09	Peak	---	---
6	8188.00	37.57	54.00	-16.43	26.05	11.52	Average	---	---
7	8188.00	48.91	74.00	-25.09	37.39	11.52	Peak	---	---
8	11060.00	43.79	54.00	-10.21	25.88	17.91	Average	---	---
9	11060.00	55.62	74.00	-18.38	37.71	17.91	Peak	---	---

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

*Factor includes antenna factor, cable loss and amplifier gain

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

Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Horizontal	Test Configuration	3



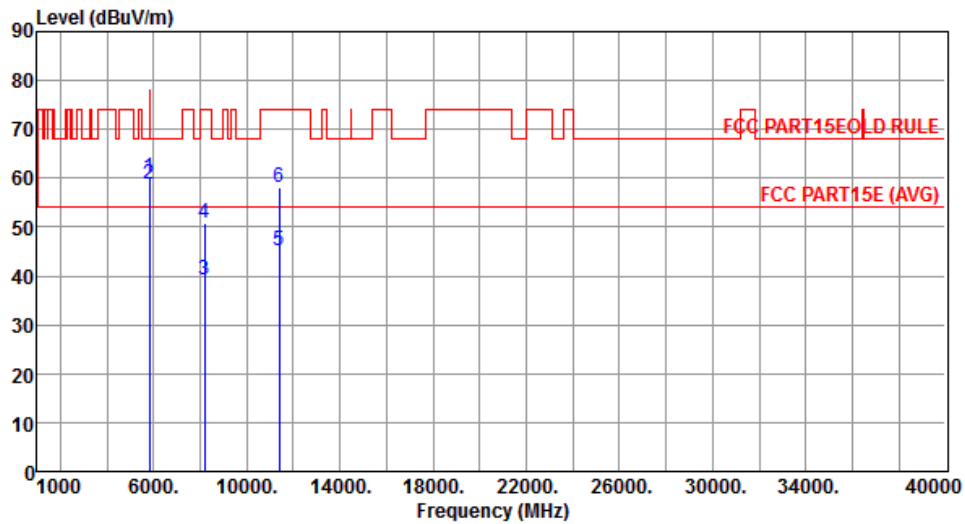
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	57.99	78.20	-20.21	50.77	7.22	Peak	---	---
2	5835.00	57.64	68.20	-10.56	50.41	7.23	Peak	---	---
3	8188.00	38.15	54.00	-15.85	26.63	11.52	Average	---	---
4	8188.00	50.26	74.00	-23.74	38.74	11.52	Peak	---	---
5	11380.00	43.90	54.00	-10.10	26.49	17.41	Average	---	---
6	11380.00	57.09	74.00	-16.91	39.68	17.41	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5825.00	60.12	78.20	-18.08	52.90	7.22	Peak	---	---
2	5835.00	58.91	68.20	-9.29	51.68	7.23	Peak	---	---
3	8188.00	39.04	54.00	-14.96	27.52	11.52	Average	---	---
4	8188.00	50.92	74.00	-23.08	39.40	11.52	Peak	---	---
5	11380.00	45.29	54.00	-8.71	27.88	17.41	Average	---	---
6	11380.00	58.21	74.00	-15.79	40.80	17.41	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

3.7 Frequency Stability

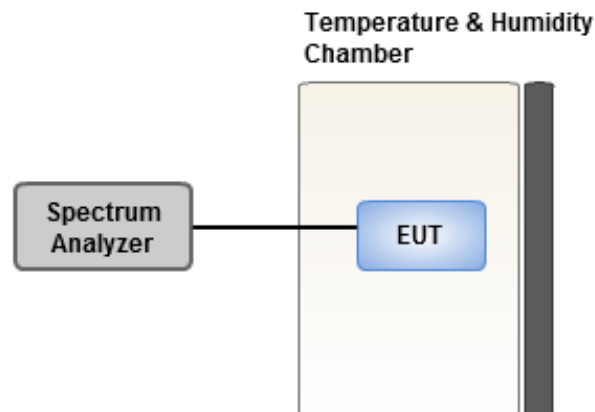
3.7.1 Limit of Frequency Stability

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.

3.7.2 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.

3.7.3 Test Setup



3.7.4 Test Result of Frequency Stability

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	2.69	2.55	3.03	2.98
T20°C Vmin	3.64	2.19	3.48	3.16
T50°C Vnom	2.77	3.26	2.53	2.65
T40°C Vnom	2.02	2.68	2.15	1.88
T30°C Vnom	1.95	2.45	2.23	1.93
T20°C Vnom	1.47	1.68	1.69	2.16
T10°C Vnom	2.07	1.97	1.99	2.02
T0°C Vnom	1.53	2.03	1.62	1.64
T-10°C Vnom	1.54	1.84	1.61	2.12
T-20°C Vnom	0.53	0.37	0.58	0.92
T-30°C Vnom	-0.60	-0.83	-0.27	-0.18
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 50		Tmin [°C]: -30

4 Test laboratory information

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

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

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

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

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