

TEST REPORT

Product : Tablet 8"-XR
Trade mark : N/A
Model/Type reference : 7X-CC-C9K-X
Serial Number : N/A
Report Number : EED32O818443034
FCC ID : 2AVZO-CCU
Date of Issue : Nov. 01, 2023
Test Standards : 47 CFR Part 15 Subpart E
Test result : PASS

Prepared for:

75F, Inc.**1650 W 82nd St, Suite 200****Bloomington, Minnesota 55431, United States**

Prepared by:

Centre Testing International Group Co., Ltd.**Hongwei Industrial Zone, Bao'an 70 District,****Shenzhen, Guangdong, China****TEL: +86-755-3368 3668****FAX: +86-755-3368 3385**

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Nov. 01, 2023

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Check No.:7405181122



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2 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	PASS
Duty Cycle	47 CFR Part 15 Subpart E Section 15.407	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
26dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
99% Occupied bandwidth	\	PASS
6dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (e)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	PASS
Radiated Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Radiated Emissions which fall in the restricted bands	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Remark: Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.		

3 General Information

3.1 Client Information

Applicant:	75F, Inc.
Address of Applicant:	1650 W 82nd St, Suite 200 Bloomington, Minnesota 55431, United States
Manufacturer:	Estone Technology LTD
Address of Manufacturer:	2F,Building No.1, Jia'an Industrial Park, No.2 Long Chang Road, Bao'an, Shenzhen 518101, China.
Factory:	Estone Technology LTD
Address of Factory:	2F,Building No.1, Jia'an Industrial Park, No.2 Long Chang Road, Bao'an, Shenzhen 518101, China.

3.2 General Description of EUT

Product Name:	Tablet 8"-XR
Model No.(EUT):	7X-CC-C9K-X
Trade mark:	N/A
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location ☒ With TPC ☐ Without TPC ☐ Master ☒ Slaver without radar detection ☐ Slaver with radar detection
Type of Modulation:	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40/VHT80): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Operating Frequency	U-NII-1 & U-NII-2A: 5180-5320MHz U-NII-3:5745-5825MHz
Sample Type:	Portable production
Antenna Type:	PCB Antenna
Antenna Gain:	U-NII-1: 2.52dBi U-NII-2A: 2.45dBi U-NII-3: 2.31dBi
Function	☒ SISO ☐ 2x2 MIMO ☐ 3x3 MIMO ☐ 4x4MIMO
Power Supply:	USB port: DC 5.0V
	Battery: DC 3.85V,3896mAh
Test voltage:	DC 3.85V
Sample Received Date:	Nov. 21, 2022
Sample tested Date:	Nov. 21, 2022 to Dec. 10, 2022

Operation Frequency each of channel

802.11a/802.11n/802.11ac(20MHz) Frequency/Channel Operations:

U-NII-1		U-NII-2A		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	52	5260	149	5745
40	5200	56	5280	153	5765
44	5220	60	5300	157	5785
48	5240	64	5320	161	5805
-	-	-	-	165	5825
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

802.11n/802.11ac(40MHz) Frequency/Channel Operations:

U-NII-1		U-NII-2A		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	54	5270	151	5755
46	5230	62	5310	159	5795
-	-	-	-	-	-
-	-	-	-	-	-

802.11ac(80MHz) Frequency/Channel Operations:

U-NII-1		U-NII-2A		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
42	5210	58	5290	155	5775
-	-	-	-	-	-

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

3.3 Test Configuration

EUT Test Software Settings:	
Software:	RF Test (manufacturer declare)
EUT Power Grade:	Default (Power level is built-in set parameters and cannot be changed and selected)
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.	
Test Mode:	
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
802.11ac(VHT20)	MCS0
802.11ac(VHT40)	MCS0
802.11ac(VHT80)	MCS0

3.4 Test Environment

Operating Environment:		
Radiated Spurious Emissions:		
Temperature:	22~25.0 °C	
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
Conducted Emissions:		
Temperature:	22~25.0 °C	
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
RF Conducted:		
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
Temperature:	NT (Normal Temperature)	22~25.0 °C
	LT (Low Temperature)	0 °C
	HT (High Temperature)	50.0 °C
Working Voltage of the EUT:	NV (Normal Voltage)	3.850 V
	LV (Low Voltage)	3.465 V
	HV (High Voltage)	4.235 V

3.5 Description of Support Units

The EUT has been tested independently.

3.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-40GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.5dB (30MHz-1GHz)
		4.8dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

4 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	07-06-2022	07-05-2023
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-09-2022	09-08-2023
Spectrum Analyzer	R&S	FSV40	101200	08-01-2022	07-31-2023
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	07-06-2022	07-05-2023
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-16-2022	06-15-2023
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0	---	---

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
Receiver	R&S	ESCI	100435	05-06-2022	05-05-2023
Temperature/ Humidity Indicator	Defu	TH128	/	---	---
LISN	R&S	ENV216	100098	09-27-2022	09-26-2023
Barometer	changchun	DYM3	1188	---	---
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	07-13-2022	07-12-2023
ISN	TESEQ	ISN T800	30297	01-04-2022	01-03-2023

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09/28/2022	09/27/2023
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/24/2021	12/23/2022
Multi device Controller	maturro	NCD/070/10711112	---	---	---
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Microwave Preamplifier	Agilent	8449B	3008A02425	06/20/2022	06/19/2023

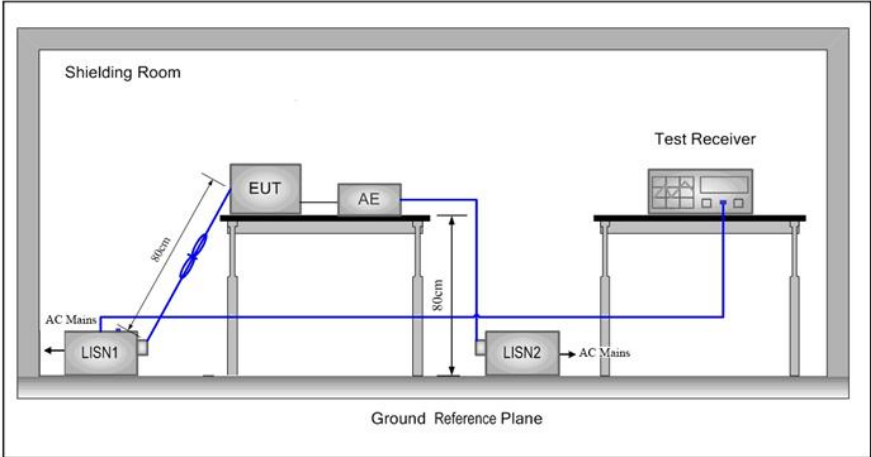
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-20-2022	04-19-2023
Preamplifier	EMCI	EMC001330	980563	04-01-2022	03-31-2023
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

5 Radio Technical Requirements Specification

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna:	Please see Internal photos
The antenna is PCB antenna. The best case gain of the antenna are U-NII-1: 2.52dBi, U-NII-2A : 2.45dBi and U-NII-3: 2.31dBi.	

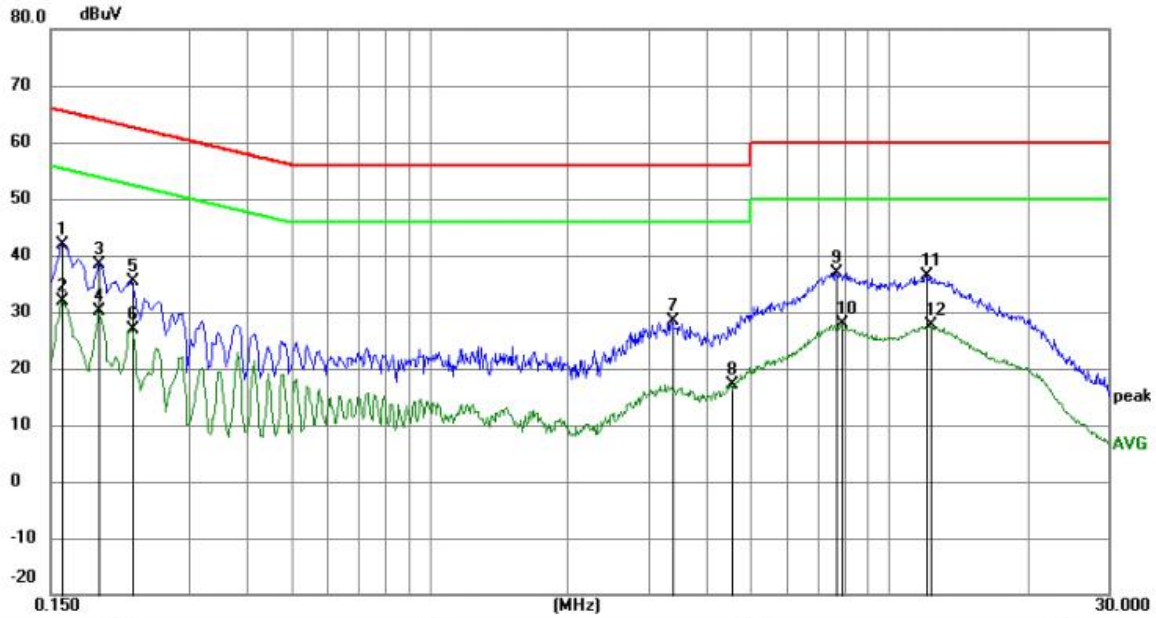
5.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Setup:			

Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.
Test Mode:	All modes were tested, only the worst case was recorded in the report.
Test Results:	Pass

Measurement Data

Live line:

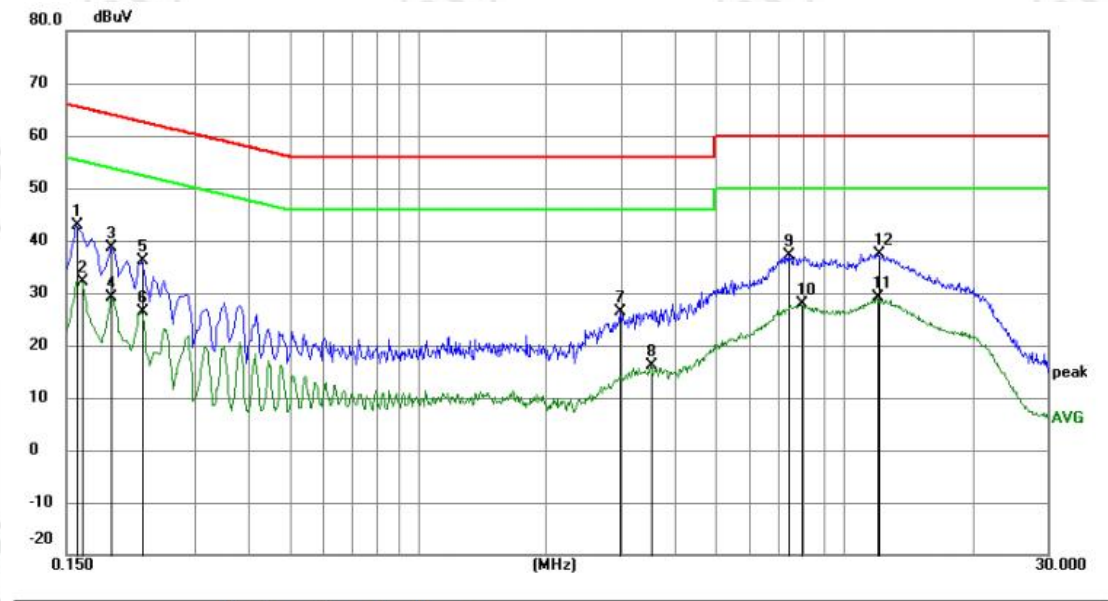


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	32.08	9.87	41.95	65.52	-23.57	QP	
2		0.1590	21.94	9.87	31.81	55.52	-23.71	AVG	
3		0.1905	28.46	9.87	38.33	64.01	-25.68	QP	
4		0.1905	20.16	9.87	30.03	54.01	-23.98	AVG	
5		0.2265	25.42	9.92	35.34	62.58	-27.24	QP	
6		0.2265	17.02	9.92	26.94	52.58	-25.64	AVG	
7		3.3765	18.52	9.79	28.31	56.00	-27.69	QP	
8		4.5465	7.31	9.78	17.09	46.00	-28.91	AVG	
9		7.6605	27.17	9.79	36.96	60.00	-23.04	QP	
10	*	7.9080	18.05	9.79	27.84	50.00	-22.16	AVG	
11		12.0300	26.51	9.84	36.35	60.00	-23.65	QP	
12		12.2820	17.78	9.85	27.63	50.00	-22.37	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:

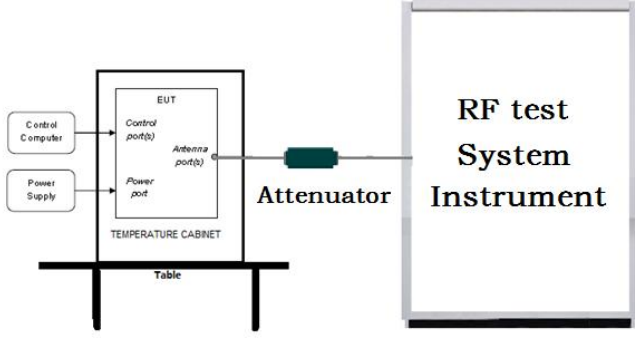


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1590	32.95	9.87	42.82	65.52	-22.70	QP	
2		0.1635	22.29	9.87	32.16	55.28	-23.12	AVG	
3		0.1905	28.69	9.87	38.56	64.01	-25.45	QP	
4		0.1905	19.25	9.87	29.12	54.01	-24.89	AVG	
5		0.2265	26.16	9.92	36.08	62.58	-26.50	QP	
6		0.2265	16.37	9.92	26.29	52.58	-26.29	AVG	
7		2.9895	16.48	9.79	26.27	56.00	-29.73	QP	
8		3.5160	6.29	9.78	16.07	46.00	-29.93	AVG	
9		7.4445	27.22	9.79	37.01	60.00	-22.99	QP	
10		7.9530	18.07	9.79	27.86	50.00	-22.14	AVG	
11	*	11.9490	19.30	9.84	29.14	50.00	-20.86	AVG	
12		12.0255	27.53	9.84	37.37	60.00	-22.63	QP	

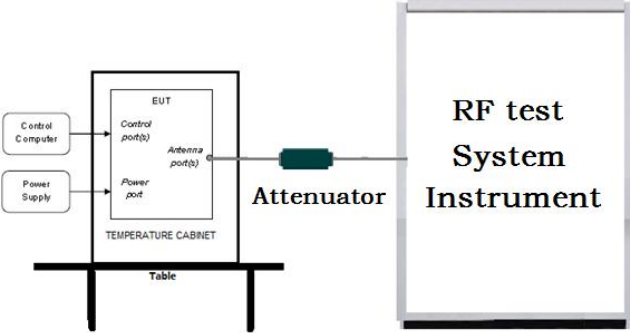
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

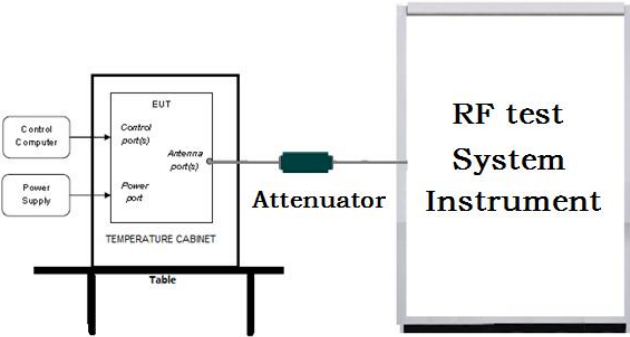
5.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.407 (a)													
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E													
Test Setup:														
Test Procedure:	1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Measure the conducted output power and record the results in the test report.													
Limit:	<table border="1"> <thead> <tr> <th>Frequency band (MHz)</th><th>Limit</th></tr> </thead> <tbody> <tr> <td rowspan="2">5150-5250</td><td>≤1W(30dBm) for master device</td></tr> <tr> <td>≤250mW(24dBm) for client device</td></tr> <tr> <td>5250-5350</td><td>≤250mW(24dBm) for client device or 11dBm+10logB*</td></tr> <tr> <td>5470-5725</td><td>≤250mW(24dBm) for client device or 11dBm+10logB*</td></tr> <tr> <td>5725-5850</td><td>≤1W(30dBm)</td></tr> <tr> <td>Remark:</td><td>* Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</td></tr> </tbody> </table>	Frequency band (MHz)	Limit	5150-5250	≤1W(30dBm) for master device	≤250mW(24dBm) for client device	5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*	5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*	5725-5850	≤1W(30dBm)	Remark:	* Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.
Frequency band (MHz)	Limit													
5150-5250	≤1W(30dBm) for master device													
	≤250mW(24dBm) for client device													
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*													
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*													
5725-5850	≤1W(30dBm)													
Remark:	* Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.													
Test Mode:	Transmitting mode with modulation													
Test Results:	Refer to Appendix 5G WIFI													

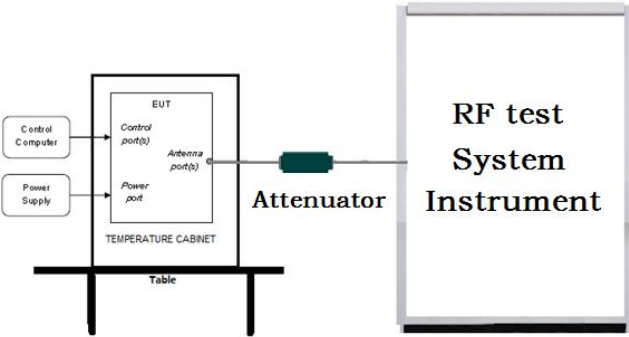
5.4 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Limit:	≥ 500 kHz
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix 5G WIFI

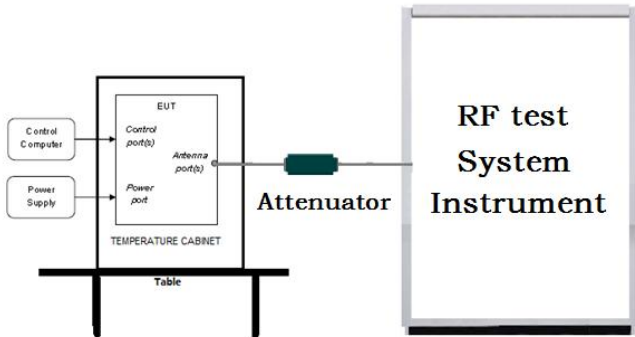
5.5 26dB Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Limit:	No restriction limits
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix 5G WIFI

5.6 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.407 (a)												
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F												
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.												
Test Procedure:	- Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. - Allow the sweeps to continue until the trace stabilizes. - Use the peak marker function to determine the maximum amplitude level.												
Limit:	<table border="1"> <thead> <tr> <th>Frequency band (MHz)</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>5150-5250</td><td>≤17dBm in 1MHz for master device ≤11dBm in 1MHz for client device</td></tr> <tr> <td>5250-5350</td><td>≤11dBm in 1MHz for client device</td></tr> <tr> <td>5470-5725</td><td>≤11dBm in 1MHz for client device</td></tr> <tr> <td>5725-5850</td><td>≤30dBm in 500kHz</td></tr> <tr> <td>Remark:</td><td>The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</td></tr> </tbody> </table>	Frequency band (MHz)	Limit	5150-5250	≤17dBm in 1MHz for master device ≤11dBm in 1MHz for client device	5250-5350	≤11dBm in 1MHz for client device	5470-5725	≤11dBm in 1MHz for client device	5725-5850	≤30dBm in 500kHz	Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.
Frequency band (MHz)	Limit												
5150-5250	≤17dBm in 1MHz for master device ≤11dBm in 1MHz for client device												
5250-5350	≤11dBm in 1MHz for client device												
5470-5725	≤11dBm in 1MHz for client device												
5725-5850	≤30dBm in 500kHz												
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.												
Test Mode:	Transmitting mode with modulation												
Test Results:	Refer to Appendix 5G WIFI												

5.7 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.407 (g)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1.The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. 2. Turn the EUT on and couple its output to a spectrum analyzer. 3. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. 4. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. 5. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix 5G WIFI

5.8 Radiated Emission

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.407 (b)				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed					

	the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. Note: (i) $EIRP = ((E*d)^2) / 30$ where: • E is the field strength in V/m; • d is the measurement distance in meters; • EIRP is the equivalent isotropically radiated power in watts. (ii) Working in dB units, the above equation is equivalent to: $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$ (iii) Or, if d is 3 meters: $EIRP[dBm] = E[dB\mu V/m] - 95.2$
Test Setup:	

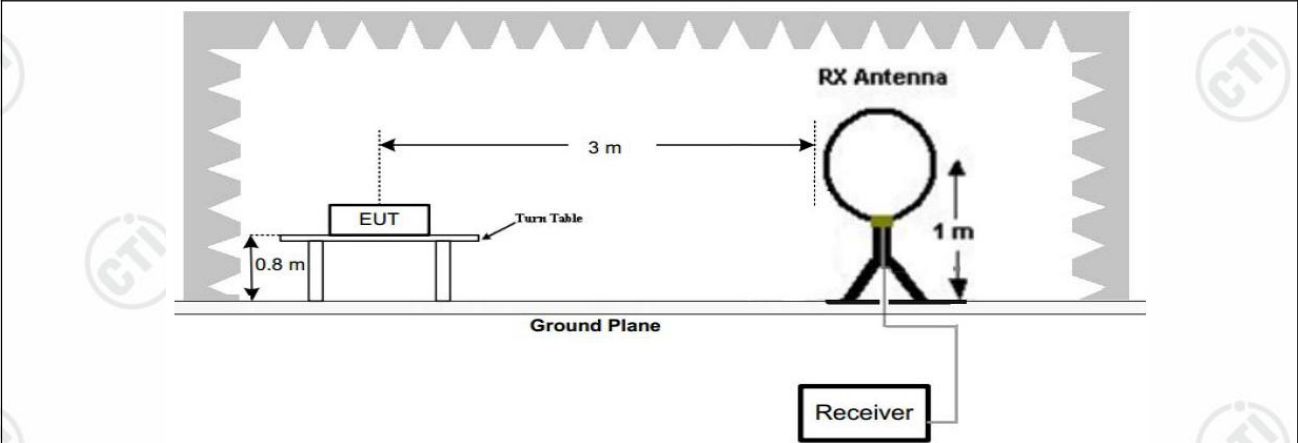


Figure 1. Below 30MHz

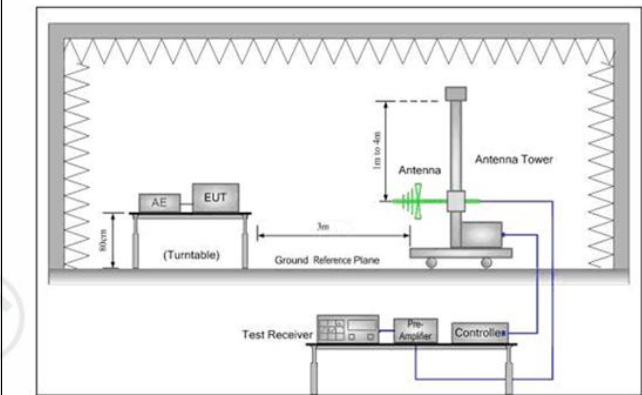


Figure 2. 30MHz to 1GHz

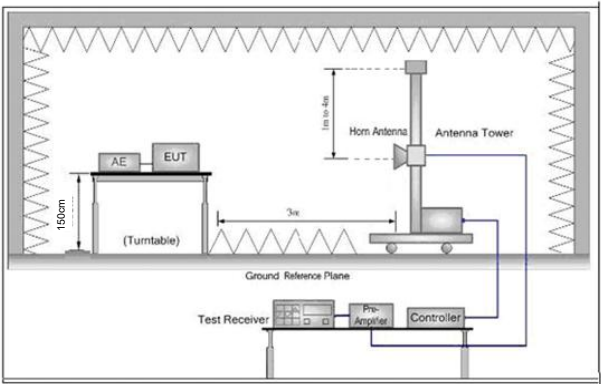


Figure 3. Above 1 GHz

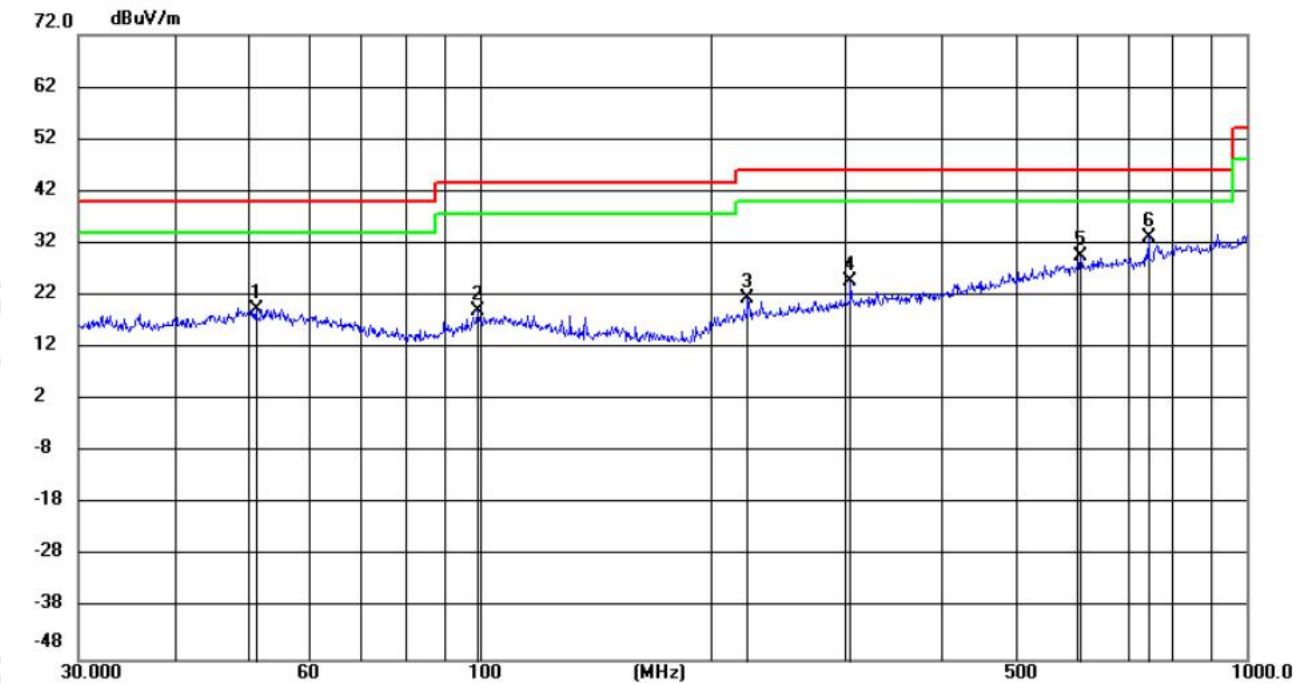
Test Procedure:	a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz:
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	Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel and the highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting mode with modulation
Test Results:	Pass

Radiated Spurious Emissions test Data:
Radiated Emission below 1GHz

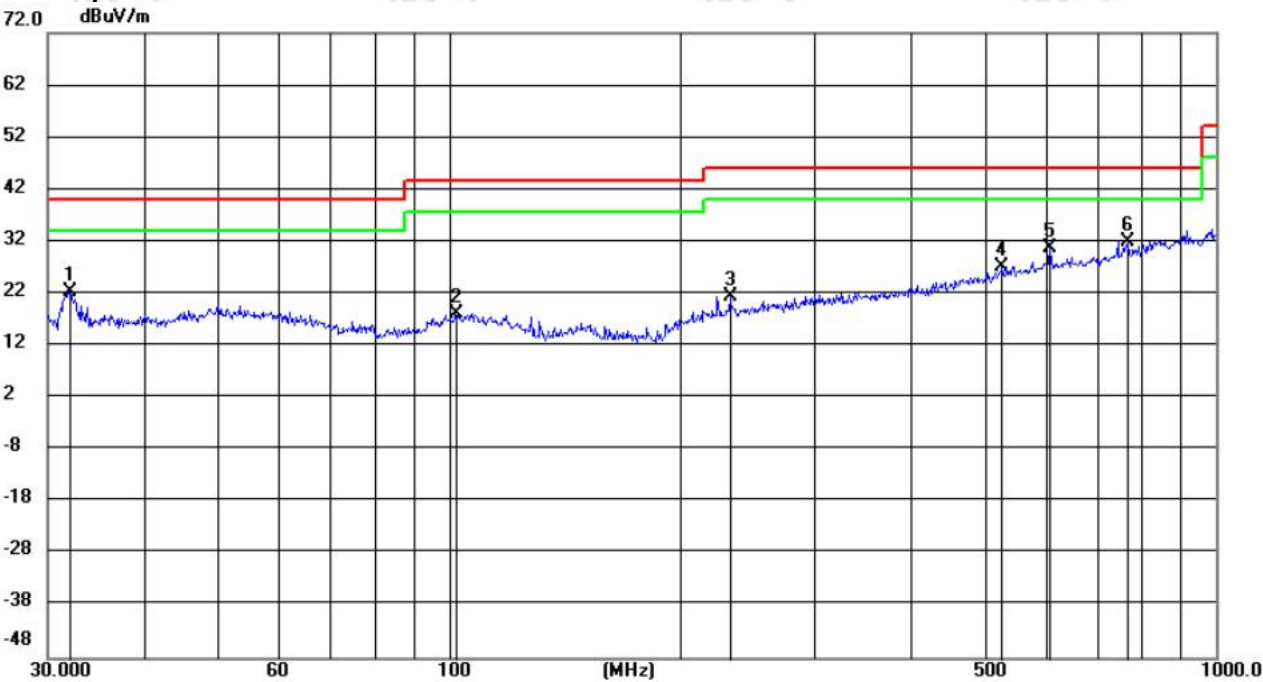
Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case middle channel of 6Mbps for 802.11a was recorded in the report.

Horizontal:
Test Graph



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table
		MHz	Level	Factor	ment			Height	Degree
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		51.1209	4.60	14.65	19.25	40.00	-20.75	QP	100
2		99.5281	5.43	13.55	18.98	43.50	-24.52	QP	100
3		223.7333	7.56	13.82	21.38	46.00	-24.62	QP	200
4		304.6099	7.77	16.92	24.69	46.00	-21.31	QP	100
5		607.7867	6.92	22.67	29.59	46.00	-16.41	QP	100
6	*	744.8660	9.09	24.10	33.19	46.00	-12.81	QP	200

Vertical:
Test Graph



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		31.9546	9.54	12.77	22.31	40.00	-17.69	QP	100	239
2		102.0014	4.62	13.62	18.24	43.50	-25.26	QP	200	90
3		232.5318	7.17	14.17	21.34	46.00	-24.66	QP	100	356
4		526.3967	6.02	21.24	27.26	46.00	-18.74	QP	100	0
5		607.7867	7.94	22.67	30.61	46.00	-15.39	QP	200	291
6	*	768.7481	7.44	24.61	32.05	46.00	-13.95	QP	200	160

Transmitter Emission above 1GHz

Test_Mode	802.11 a Transmitting	Test_Frequency	5180MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1125.4125	0.71	43.37	44.08	68.20	24.12	PASS	Horizontal	PK
2	2106.1606	4.98	39.19	44.17	68.20	24.03	PASS	Horizontal	PK
3	3954.3454	9.19	36.29	45.48	68.20	22.72	PASS	Horizontal	PK
4	7495.9498	-11.28	53.63	42.35	68.20	25.85	PASS	Horizontal	PK
5	12456.1478	-4.16	52.72	48.56	68.20	19.64	PASS	Horizontal	PK
6	16949.9975	2.81	50.84	53.65	68.20	14.55	PASS	Horizontal	PK
7	1125.4125	0.71	36.08	36.79	54.00	17.21	PASS	Horizontal	AV
8	2100.11	5.05	27.01	32.06	54.00	21.94	PASS	Horizontal	AV
9	4100.6601	9.59	22.28	31.87	54.00	22.13	PASS	Horizontal	AV
10	7598.3049	-10.54	41.98	31.44	54.00	22.56	PASS	Horizontal	AV
11	12438.8969	-4.11	41.08	36.97	54.00	17.03	PASS	Horizontal	AV
12	16604.9802	1.36	37.63	38.99	54.00	15.01	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5180MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1332.2332	1.24	39.86	41.10	68.20	27.10	PASS	Vertical	PK
2	2030.253	4.75	39.25	44.00	68.20	24.20	PASS	Vertical	PK
3	3799.78	8.55	36.72	45.27	68.20	22.93	PASS	Vertical	PK
4	8402.7701	-10.66	53.31	42.65	68.20	25.55	PASS	Vertical	PK
5	10362.4681	-6.26	52.40	46.14	68.20	22.06	PASS	Vertical	PK
6	14410.6705	0.48	48.82	49.30	68.20	18.90	PASS	Vertical	PK
7	1277.2277	1.08	29.14	30.22	54.00	23.78	PASS	Vertical	AV
8	1922.4422	4.29	27.53	31.82	54.00	22.18	PASS	Vertical	AV
9	3806.3806	8.58	23.48	32.06	54.00	21.94	PASS	Vertical	AV
10	9000.225	-8.40	41.16	32.76	54.00	21.24	PASS	Vertical	AV
11	11185.9093	-5.82	40.62	34.80	54.00	19.20	PASS	Vertical	AV
12	13809.1905	-2.28	38.37	36.09	54.00	17.91	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5200MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1125.4125	0.71	43.84	44.55	68.20	23.65	PASS	Horizontal	PK
2	1630.363	2.62	39.58	42.20	68.20	26.00	PASS	Horizontal	PK
3	2683.1683	5.48	38.85	44.33	68.20	23.87	PASS	Horizontal	PK
4	8385.5193	-10.72	52.59	41.87	68.20	26.33	PASS	Horizontal	PK
5	11951.2726	-5.13	53.49	48.36	68.20	19.84	PASS	Horizontal	PK
6	17034.5267	2.50	51.19	53.69	68.20	14.51	PASS	Horizontal	PK
7	1125.4125	0.71	36.60	37.31	54.00	16.69	PASS	Horizontal	AV
8	1661.7162	2.80	27.95	30.75	54.00	23.25	PASS	Horizontal	AV
9	2707.3707	5.57	25.65	31.22	54.00	22.78	PASS	Horizontal	AV
10	9019.776	-8.45	40.99	32.54	54.00	21.46	PASS	Horizontal	AV
11	12444.0722	-4.12	41.30	37.18	54.00	16.82	PASS	Horizontal	AV
12	16503.2002	0.43	38.85	39.28	54.00	14.72	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5200MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1133.6634	0.72	41.78	42.50	68.20	25.70	PASS	Vertical	PK
2	2103.4103	5.01	38.85	43.86	68.20	24.34	PASS	Vertical	PK
3	3200.22	6.97	38.94	45.91	68.20	22.29	PASS	Vertical	PK
4	7506.3003	-11.23	53.83	42.60	68.20	25.60	PASS	Vertical	PK
5	10333.7167	-6.25	51.75	45.50	68.20	22.70	PASS	Vertical	PK
6	12471.6736	-4.20	52.30	48.10	68.20	20.10	PASS	Vertical	PK
7	1125.4125	0.71	29.76	30.47	54.00	23.53	PASS	Vertical	AV
8	2103.4103	5.01	26.89	31.90	54.00	22.10	PASS	Vertical	AV
9	3257.4257	7.21	24.47	31.68	54.00	22.32	PASS	Vertical	AV
10	7473.5237	-11.34	42.86	31.52	54.00	22.48	PASS	Vertical	AV
11	10401.5701	-6.28	41.06	34.78	54.00	19.22	PASS	Vertical	AV
12	12427.9714	-4.08	40.74	36.66	54.00	17.34	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5240MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1124.8625	0.70	44.58	45.28	68.20	22.92	PASS	Horizontal	PK
2	1955.4455	4.43	39.44	43.87	68.20	24.33	PASS	Horizontal	PK
3	3815.7316	8.60	37.04	45.64	68.20	22.56	PASS	Horizontal	PK
4	7591.9796	-10.59	53.83	43.24	68.20	24.96	PASS	Horizontal	PK
5	11202.5851	-5.74	52.42	46.68	68.20	21.52	PASS	Horizontal	PK
6	16465.2483	0.17	52.06	52.23	68.20	15.97	PASS	Horizontal	PK
7	1125.4125	0.71	37.16	37.87	54.00	16.13	PASS	Horizontal	AV
8	2010.451	4.66	27.45	32.11	54.00	21.89	PASS	Horizontal	AV
9	3947.7448	9.16	22.79	31.95	54.00	22.05	PASS	Horizontal	AV
10	7604.6302	-10.56	42.52	31.96	54.00	22.04	PASS	Horizontal	AV
11	11229.6115	-5.97	41.42	35.45	54.00	18.55	PASS	Horizontal	AV
12	16538.8519	0.77	38.40	39.17	54.00	14.83	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5240MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1135.3135	0.73	40.95	41.68	68.20	26.52	PASS	Vertical	PK
2	2102.8603	5.01	38.98	43.99	68.20	24.21	PASS	Vertical	PK
3	3167.7668	6.92	38.02	44.94	68.20	23.26	PASS	Vertical	PK
4	7548.2774	-10.92	53.58	42.66	68.20	25.54	PASS	Vertical	PK
5	11860.993	-5.74	52.90	47.16	68.20	21.04	PASS	Vertical	PK
6	16968.9734	2.90	50.19	53.09	68.20	15.11	PASS	Vertical	PK
7	1125.4125	0.71	30.49	31.20	54.00	22.80	PASS	Vertical	AV
8	2035.7536	4.77	26.88	31.65	54.00	22.35	PASS	Vertical	AV
9	3084.7085	6.77	24.28	31.05	54.00	22.95	PASS	Vertical	AV
10	7594.8547	-10.57	41.57	31.00	54.00	23.00	PASS	Vertical	AV
11	11833.3917	-5.94	41.96	36.02	54.00	17.98	PASS	Vertical	AV
12	16529.6515	0.68	37.33	38.01	54.00	15.99	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5260MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1124.8625	0.70	42.62	43.32	68.20	24.88	PASS	Horizontal	PK
2	2036.3036	4.78	40.29	45.07	68.20	23.13	PASS	Horizontal	PK
3	3821.2321	8.63	37.12	45.75	68.20	22.45	PASS	Horizontal	PK
4	7555.1778	-10.86	53.58	42.72	68.20	25.48	PASS	Horizontal	PK
5	12453.8477	-4.15	52.28	48.13	68.20	20.07	PASS	Horizontal	PK
6	17098.3549	1.57	52.61	54.18	68.20	14.02	PASS	Horizontal	PK
7	1125.4125	0.71	35.55	36.26	54.00	17.74	PASS	Horizontal	AV
8	2036.8537	4.78	27.59	32.37	54.00	21.63	PASS	Horizontal	AV
9	3954.3454	9.19	23.28	32.47	54.00	21.53	PASS	Horizontal	AV
10	7566.1033	-10.79	42.45	31.66	54.00	22.34	PASS	Horizontal	AV
11	12434.2967	-4.10	41.50	37.40	54.00	16.60	PASS	Horizontal	AV
12	16609.0054	1.38	37.56	38.94	54.00	15.06	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5260MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1165.5666	0.77	40.33	41.10	68.20	27.10	PASS	Vertical	PK
2	2066.0066	4.90	38.95	43.85	68.20	24.35	PASS	Vertical	PK
3	3823.9824	8.63	37.05	45.68	68.20	22.52	PASS	Vertical	PK
4	7705.8353	-11.20	53.53	42.33	68.20	25.87	PASS	Vertical	PK
5	12384.8442	-4.24	52.59	48.35	68.20	19.85	PASS	Vertical	PK
6	16534.2517	0.72	51.55	52.27	68.20	15.93	PASS	Vertical	PK
7	1132.5633	0.72	29.50	30.22	54.00	23.78	PASS	Vertical	AV
8	2066.5567	4.90	27.10	32.00	54.00	22.00	PASS	Vertical	AV
9	3917.4917	8.99	23.47	32.46	54.00	21.54	PASS	Vertical	AV
10	7659.833	-10.92	42.75	31.83	54.00	22.17	PASS	Vertical	AV
11	12444.6472	-4.12	41.58	37.46	54.00	16.54	PASS	Vertical	AV
12	16444.5472	0.04	38.88	38.92	54.00	15.08	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5280MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1124.8625	0.70	43.18	43.88	68.20	24.32	PASS	Horizontal	PK
2	1982.3982	4.54	39.17	43.71	68.20	24.49	PASS	Horizontal	PK
3	3914.7415	8.98	37.28	46.26	68.20	21.94	PASS	Horizontal	PK
4	7700.66	-11.19	53.89	42.70	68.20	25.50	PASS	Horizontal	PK
5	11155.4328	-6.04	52.27	46.23	68.20	21.97	PASS	Horizontal	PK
6	16226.0363	1.03	49.74	50.77	68.20	17.43	PASS	Horizontal	PK
7	1125.4125	0.71	36.36	37.07	54.00	16.93	PASS	Horizontal	AV
8	2038.5038	4.78	27.08	31.86	54.00	22.14	PASS	Horizontal	AV
9	3841.5842	8.69	23.62	32.31	54.00	21.69	PASS	Horizontal	AV
10	7601.1801	-10.54	42.63	32.09	54.00	21.91	PASS	Horizontal	AV
11	11153.1327	-6.05	41.14	35.09	54.00	18.91	PASS	Horizontal	AV
12	16519.876	0.59	38.35	38.94	54.00	15.06	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5280MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1584.1584	2.32	44.83	47.15	68.20	21.05	PASS	Vertical	PK
2	2677.1177	5.45	39.13	44.58	68.20	23.62	PASS	Vertical	PK
3	3913.0913	8.97	36.85	45.82	68.20	22.38	PASS	Vertical	PK
4	7600.605	-10.53	53.80	43.27	68.20	24.93	PASS	Vertical	PK
5	11276.7638	-6.37	53.34	46.97	68.20	21.23	PASS	Vertical	PK
6	15895.9698	0.07	52.05	52.12	68.20	16.08	PASS	Vertical	PK
7	1584.7085	2.32	36.89	39.21	54.00	14.79	PASS	Vertical	AV
8	2711.2211	5.59	25.88	31.47	54.00	22.53	PASS	Vertical	AV
9	3805.8306	8.57	23.46	32.03	54.00	21.97	PASS	Vertical	AV
10	7685.7093	-11.09	43.53	32.44	54.00	21.56	PASS	Vertical	AV
11	11196.8348	-5.74	41.16	35.42	54.00	18.58	PASS	Vertical	AV
12	16286.4143	0.90	37.08	37.98	54.00	16.02	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5320MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1124.8625	0.70	44.84	45.54	68.20	22.66	PASS	Horizontal	PK
2	1890.5391	4.12	38.88	43.00	68.20	25.20	PASS	Horizontal	PK
3	3185.3685	6.94	38.57	45.51	68.20	22.69	PASS	Horizontal	PK
4	8978.9489	-8.59	52.18	43.59	68.20	24.61	PASS	Horizontal	PK
5	12410.1455	-4.03	52.49	48.46	68.20	19.74	PASS	Horizontal	PK
6	17649.2325	4.09	50.29	54.38	68.20	13.82	PASS	Horizontal	PK
7	1125.4125	0.71	36.94	37.65	54.00	16.35	PASS	Horizontal	AV
8	1922.9923	4.29	27.14	31.43	54.00	22.57	PASS	Horizontal	AV
9	3202.9703	6.98	24.56	31.54	54.00	22.46	PASS	Horizontal	AV
10	9187.1094	-7.84	41.89	34.05	54.00	19.95	PASS	Horizontal	AV
11	12426.8213	-4.08	41.40	37.32	54.00	16.68	PASS	Horizontal	AV
12	17096.0548	1.60	36.07	37.67	54.00	16.33	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5320MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1132.0132	0.72	40.86	41.58	68.20	26.62	PASS	Vertical	PK
2	1656.7657	2.77	39.41	42.18	68.20	26.02	PASS	Vertical	PK
3	2942.2442	6.40	39.63	46.03	68.20	22.17	PASS	Vertical	PK
4	6863.4182	-12.03	56.62	44.59	68.20	23.61	PASS	Vertical	PK
5	10274.4887	-6.45	52.00	45.55	68.20	22.65	PASS	Vertical	PK
6	16450.8725	0.08	52.58	52.66	68.20	15.54	PASS	Vertical	PK
7	1134.2134	0.72	30.17	30.89	54.00	23.11	PASS	Vertical	AV
8	1660.066	2.80	27.56	30.36	54.00	23.64	PASS	Vertical	AV
9	2820.6821	5.96	25.56	31.52	54.00	22.48	PASS	Vertical	AV
10	6864.5682	-12.03	48.11	36.08	54.00	17.92	PASS	Vertical	AV
11	10372.8186	-6.27	40.64	34.37	54.00	19.63	PASS	Vertical	AV
12	16607.8554	1.37	37.45	38.82	54.00	15.18	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5745MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1125.4125	1.09	43.64	44.73	68.20	23.47	PASS	Horizontal	PK
2	1751.3751	3.67	39.23	42.90	68.20	25.30	PASS	Horizontal	PK
3	3201.3201	7.83	38.53	46.36	68.20	21.84	PASS	Horizontal	PK
4	7601.0067	-10.54	53.33	42.79	68.20	25.41	PASS	Horizontal	PK
5	11186.9458	-5.81	51.97	46.16	68.20	22.04	PASS	Horizontal	PK
6	16280.252	0.91	51.11	52.02	68.20	16.18	PASS	Horizontal	PK
7	1125.4125	1.09	37.22	38.31	54.00	15.69	PASS	Horizontal	AV
8	1779.978	3.72	27.37	31.09	54.00	22.91	PASS	Horizontal	AV
9	3199.1199	7.82	24.47	32.29	54.00	21.71	PASS	Horizontal	AV
10	7631.6754	-10.74	42.93	32.19	54.00	21.81	PASS	Horizontal	AV
11	11170.078	-5.93	40.58	34.65	54.00	19.35	PASS	Horizontal	AV
12	16609.9407	1.38	36.92	38.30	54.00	15.70	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5745MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1079.758	1.13	41.35	42.48	68.20	25.72	PASS	Vertical	PK
2	1744.7745	3.67	39.02	42.69	68.20	25.51	PASS	Vertical	PK
3	3200.22	7.82	38.38	46.20	68.20	22.00	PASS	Vertical	PK
4	7593.3396	-10.58	52.75	42.17	68.20	26.03	PASS	Vertical	PK
5	11156.2771	-6.03	52.12	46.09	68.20	22.11	PASS	Vertical	PK
6	15901.4934	0.12	50.69	50.81	68.20	17.39	PASS	Vertical	PK
7	1080.8581	1.13	29.41	30.54	54.00	23.46	PASS	Vertical	AV
8	1779.978	3.72	27.74	31.46	54.00	22.54	PASS	Vertical	AV
9	3250.8251	8.07	24.43	32.50	54.00	21.50	PASS	Vertical	AV
10	7604.0736	-10.56	41.52	30.96	54.00	23.04	PASS	Vertical	AV
11	11216.0811	-5.86	40.32	34.46	54.00	19.54	PASS	Vertical	AV
12	16511.0341	0.51	37.38	37.89	54.00	16.11	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5785MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1124.8625	1.08	43.89	44.97	68.20	23.23	PASS	Horizontal	PK
2	2035.7536	5.28	39.08	44.36	68.20	23.84	PASS	Horizontal	PK
3	3481.2981	8.33	37.03	45.36	68.20	22.84	PASS	Horizontal	PK
4	7625.5417	-10.70	53.85	43.15	68.20	25.05	PASS	Horizontal	PK
5	12439.7627	-4.12	52.59	48.47	68.20	19.73	PASS	Horizontal	PK
6	17161.9775	2.70	51.06	53.76	68.20	14.44	PASS	Horizontal	PK
7	1125.4125	1.09	37.53	38.62	54.00	15.38	PASS	Horizontal	AV
8	2039.604	5.30	27.10	32.40	54.00	21.60	PASS	Horizontal	AV
9	3342.1342	8.25	23.83	32.08	54.00	21.92	PASS	Horizontal	AV
10	7596.4064	-10.56	42.26	31.70	54.00	22.30	PASS	Horizontal	AV
11	12435.1623	-4.10	40.51	36.41	54.00	17.59	PASS	Horizontal	AV
12	16521.7681	0.61	37.63	38.24	54.00	15.76	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5785MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1228.2728	1.24	40.57	41.81	68.20	26.39	PASS	Vertical	PK
2	2184.2684	4.57	40.14	44.71	68.20	23.49	PASS	Vertical	PK
3	3947.1947	10.02	36.71	46.73	68.20	21.47	PASS	Vertical	PK
4	7570.338	-10.75	53.63	42.88	68.20	25.32	PASS	Vertical	PK
5	12444.363	-4.12	52.51	48.39	68.20	19.81	PASS	Vertical	PK
6	17109.8407	1.72	52.13	53.85	68.20	14.35	PASS	Vertical	PK
7	1247.5248	1.35	28.76	30.11	54.00	23.89	PASS	Vertical	AV
8	2095.1595	5.60	26.28	31.88	54.00	22.12	PASS	Vertical	AV
9	3946.0946	10.02	22.70	32.72	54.00	21.28	PASS	Vertical	AV
10	7631.6754	-10.74	42.42	31.68	54.00	22.32	PASS	Vertical	AV
11	12438.2292	-4.11	40.86	36.75	54.00	17.25	PASS	Vertical	AV
12	16448.1632	0.06	37.91	37.97	54.00	16.03	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5825MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1124.8625	1.08	43.27	44.35	68.20	23.85	PASS	Horizontal	PK
2	1928.4928	4.82	39.80	44.62	68.20	23.58	PASS	Horizontal	PK
3	3959.2959	10.11	36.23	46.34	68.20	21.86	PASS	Horizontal	PK
4	7574.9383	-10.72	54.04	43.32	68.20	24.88	PASS	Horizontal	PK
5	12430.562	-4.09	51.89	47.80	68.20	20.40	PASS	Horizontal	PK
6	17029.3353	2.59	51.19	53.78	68.20	14.42	PASS	Horizontal	PK
7	1125.4125	1.09	37.32	38.41	54.00	15.59	PASS	Horizontal	AV
8	1928.4928	4.82	27.34	32.16	54.00	21.84	PASS	Horizontal	AV
9	3960.396	10.11	22.84	32.95	54.00	21.05	PASS	Horizontal	AV
10	7521.2681	-11.12	42.68	31.56	54.00	22.44	PASS	Horizontal	AV
11	12444.363	-4.12	40.91	36.79	54.00	17.21	PASS	Horizontal	AV
12	16458.8973	0.13	38.21	38.34	54.00	15.66	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5825MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1140.264	1.09	40.61	41.70	68.20	26.50	PASS	Vertical	PK
2	2074.2574	5.48	39.71	45.19	68.20	23.01	PASS	Vertical	PK
3	3489.549	8.35	37.58	45.93	68.20	22.27	PASS	Vertical	PK
4	8500.3667	-10.59	53.09	42.50	68.20	25.70	PASS	Vertical	PK
5	13135.9424	-3.06	51.82	48.76	68.20	19.44	PASS	Vertical	PK
6	17041.6028	2.40	52.02	54.42	68.20	13.78	PASS	Vertical	PK
7	1125.4125	1.09	30.47	31.56	54.00	22.44	PASS	Vertical	AV
8	2039.0539	5.29	27.58	32.87	54.00	21.13	PASS	Vertical	AV
9	3343.7844	8.25	23.80	32.05	54.00	21.95	PASS	Vertical	AV
10	8389.9593	-10.69	41.95	31.26	54.00	22.74	PASS	Vertical	AV
11	13173.5116	-3.01	39.85	36.84	54.00	17.16	PASS	Vertical	AV
12	16545.5364	0.83	37.53	38.36	54.00	15.64	PASS	Vertical	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5190MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1124.8625	0.70	43.40	44.10	68.20	24.10	PASS	Horizontal	PK
2	1920.7921	4.28	39.04	43.32	68.20	24.88	PASS	Horizontal	PK
3	3192.5193	6.96	38.49	45.45	68.20	22.75	PASS	Horizontal	PK
4	7601.7551	-10.54	53.52	42.98	68.20	25.22	PASS	Horizontal	PK
5	10739.687	-6.17	51.82	45.65	68.20	22.55	PASS	Horizontal	PK
6	14365.8183	0.28	49.47	49.75	68.20	18.45	PASS	Horizontal	PK
7	1125.4125	0.71	36.73	37.44	54.00	16.56	PASS	Horizontal	AV
8	1921.3421	4.28	27.09	31.37	54.00	22.63	PASS	Horizontal	AV
9	3198.5699	6.97	24.25	31.22	54.00	22.78	PASS	Horizontal	AV
10	7627.6314	-10.71	42.48	31.77	54.00	22.23	PASS	Horizontal	AV
11	10379.719	-6.27	40.30	34.03	54.00	19.97	PASS	Horizontal	AV
12	13829.8915	-1.95	39.17	37.22	54.00	16.78	PASS	Horizontal	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5190MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1137.5138	0.73	40.60	41.33	68.20	26.87	PASS	Vertical	PK
2	2014.3014	4.68	40.30	44.98	68.20	23.22	PASS	Vertical	PK
3	3345.4345	7.47	38.08	45.55	68.20	22.65	PASS	Vertical	PK
4	7590.8295	-10.60	54.12	43.52	68.20	24.68	PASS	Vertical	PK
5	11814.4157	-6.09	53.18	47.09	68.20	21.11	PASS	Vertical	PK
6	15924.7212	0.04	50.60	50.64	68.20	17.56	PASS	Vertical	PK
7	1125.4125	0.71	30.26	30.97	54.00	23.03	PASS	Vertical	AV
8	2066.0066	4.90	27.00	31.90	54.00	22.10	PASS	Vertical	AV
9	3344.8845	7.47	23.83	31.30	54.00	22.70	PASS	Vertical	AV
10	7628.2064	-10.71	42.70	31.99	54.00	22.01	PASS	Vertical	AV
11	11766.6883	-6.06	42.51	36.45	54.00	17.55	PASS	Vertical	AV
12	16442.8221	0.02	38.54	38.56	54.00	15.44	PASS	Vertical	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5230MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1125.4125	0.71	43.27	43.98	68.20	24.22	PASS	Horizontal	PK
2	2044.0044	4.81	39.27	44.08	68.20	24.12	PASS	Horizontal	PK
3	3803.0803	8.56	36.63	45.19	68.20	23.01	PASS	Horizontal	PK
4	7618.4309	-10.65	53.39	42.74	68.20	25.46	PASS	Horizontal	PK
5	12430.2715	-4.09	52.47	48.38	68.20	19.82	PASS	Horizontal	PK
6	16984.4992	2.95	49.74	52.69	68.20	15.51	PASS	Horizontal	PK
7	1125.4125	0.71	36.96	37.67	54.00	16.33	PASS	Horizontal	AV
8	2101.2101	5.03	26.88	31.91	54.00	22.09	PASS	Horizontal	AV
9	3811.8812	8.59	23.68	32.27	54.00	21.73	PASS	Horizontal	AV
10	7571.2786	-10.75	42.79	32.04	54.00	21.96	PASS	Horizontal	AV
11	12460.173	-4.16	41.24	37.08	54.00	16.92	PASS	Horizontal	AV
12	16452.0226	0.08	39.92	40.00	54.00	14.00	PASS	Horizontal	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5230MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1221.1221	0.89	40.91	41.80	68.20	26.40	PASS	Vertical	PK
2	2466.4466	4.91	39.21	44.12	68.20	24.08	PASS	Vertical	PK
3	3949.3949	9.17	36.91	46.08	68.20	22.12	PASS	Vertical	PK
4	7414.2957	-11.46	54.31	42.85	68.20	25.35	PASS	Vertical	PK
5	10809.8405	-6.21	52.43	46.22	68.20	21.98	PASS	Vertical	PK
6	16957.4729	2.85	50.59	53.44	68.20	14.76	PASS	Vertical	PK
7	1224.4224	0.90	28.94	29.84	54.00	24.16	PASS	Vertical	AV
8	2413.6414	4.48	26.34	30.82	54.00	23.18	PASS	Vertical	AV
9	3918.0418	8.99	23.16	32.15	54.00	21.85	PASS	Vertical	AV
10	7600.03	-10.53	42.61	32.08	54.00	21.92	PASS	Vertical	AV
11	11186.4843	-5.82	41.93	36.11	54.00	17.89	PASS	Vertical	AV
12	16546.9023	0.84	38.08	38.92	54.00	15.08	PASS	Vertical	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5270MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1124.8625	0.70	43.85	44.55	68.20	23.65	PASS	Horizontal	PK
2	1887.2387	4.09	38.80	42.89	68.20	25.31	PASS	Horizontal	PK
3	3769.527	8.17	36.89	45.06	68.20	23.14	PASS	Horizontal	PK
4	8453.3727	-10.62	52.63	42.01	68.20	26.19	PASS	Horizontal	PK
5	11747.1374	-5.98	54.25	48.27	68.20	19.93	PASS	Horizontal	PK
6	16461.7981	0.15	51.87	52.02	68.20	16.18	PASS	Horizontal	PK
7	1125.4125	0.71	36.81	37.52	54.00	16.48	PASS	Horizontal	AV
8	1920.242	4.27	27.47	31.74	54.00	22.26	PASS	Horizontal	AV
9	3806.9307	8.58	23.23	31.81	54.00	22.19	PASS	Horizontal	AV
10	8351.0176	-10.84	42.51	31.67	54.00	22.33	PASS	Horizontal	AV
11	11777.6139	-6.11	42.62	36.51	54.00	17.49	PASS	Horizontal	AV
12	16548.0524	0.86	38.14	39.00	54.00	15.00	PASS	Horizontal	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5270MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1514.3014	1.70	40.31	42.01	68.20	26.19	PASS	Vertical	PK
2	2506.6007	5.18	39.26	44.44	68.20	23.76	PASS	Vertical	PK
3	3863.0363	8.77	36.75	45.52	68.20	22.68	PASS	Vertical	PK
4	7624.7562	-10.69	53.75	43.06	68.20	25.14	PASS	Vertical	PK
5	11957.5979	-5.08	52.98	47.90	68.20	20.30	PASS	Vertical	PK
6	17038.5519	2.45	51.80	54.25	68.20	13.95	PASS	Vertical	PK
7	1482.9483	1.55	28.04	29.59	54.00	24.41	PASS	Vertical	AV
8	2414.7415	4.49	26.39	30.88	54.00	23.12	PASS	Vertical	AV
9	3807.4807	8.58	23.86	32.44	54.00	21.56	PASS	Vertical	AV
10	7626.4813	-10.70	42.62	31.92	54.00	22.08	PASS	Vertical	AV
11	11958.7479	-5.08	41.50	36.42	54.00	17.58	PASS	Vertical	AV
12	16935.0468	2.75	35.89	38.64	54.00	15.36	PASS	Vertical	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5310MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1375.1375	1.37	41.22	42.59	68.20	25.61	PASS	Horizontal	PK
2	2305.2805	4.07	39.88	43.95	68.20	24.25	PASS	Horizontal	PK
3	3948.8449	9.16	36.01	45.17	68.20	23.03	PASS	Horizontal	PK
4	7397.0449	-11.48	53.89	42.41	68.20	25.79	PASS	Horizontal	PK
5	11936.3218	-5.22	53.34	48.12	68.20	20.08	PASS	Horizontal	PK
6	15973.0237	-0.13	51.52	51.39	68.20	16.81	PASS	Horizontal	PK
7	1375.6876	1.37	31.63	33.00	54.00	21.00	PASS	Horizontal	AV
8	2297.5798	4.05	26.88	30.93	54.00	23.07	PASS	Horizontal	AV
9	3952.6953	9.18	22.53	31.71	54.00	22.29	PASS	Horizontal	AV
10	7575.8788	-10.71	42.82	32.11	54.00	21.89	PASS	Horizontal	AV
11	11974.8487	-4.98	41.33	36.35	54.00	17.65	PASS	Horizontal	AV
12	15968.9984	-0.12	37.30	37.18	54.00	16.82	PASS	Horizontal	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5310MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1277.7778	1.08	40.16	41.24	68.20	26.96	PASS	Vertical	PK
2	2128.1628	4.74	39.66	44.40	68.20	23.80	PASS	Vertical	PK
3	3057.2057	6.70	38.85	45.55	68.20	22.65	PASS	Vertical	PK
4	8356.1928	-10.82	53.52	42.70	68.20	25.50	PASS	Vertical	PK
5	12475.6988	-4.20	52.66	48.46	68.20	19.74	PASS	Vertical	PK
6	16465.2483	0.17	52.60	52.77	68.20	15.43	PASS	Vertical	PK
7	1277.7778	1.08	28.70	29.78	54.00	24.22	PASS	Vertical	AV
8	2033.5534	4.77	27.28	32.05	54.00	21.95	PASS	Vertical	AV
9	3056.6557	6.70	25.18	31.88	54.00	22.12	PASS	Vertical	AV
10	8393.5697	-10.68	43.01	32.33	54.00	21.67	PASS	Vertical	AV
11	12445.7973	-4.13	41.51	37.38	54.00	16.62	PASS	Vertical	AV
12	16521.6011	0.61	38.73	39.34	54.00	14.66	PASS	Vertical	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5755MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1287.1287	1.57	41.06	42.63	68.20	25.57	PASS	Horizontal	PK
2	2034.6535	5.27	39.26	44.53	68.20	23.67	PASS	Horizontal	PK
3	3471.9472	8.31	37.08	45.39	68.20	22.81	PASS	Horizontal	PK
4	7435.3957	-11.41	53.98	42.57	68.20	25.63	PASS	Horizontal	PK
5	12442.8295	-4.12	52.49	48.37	68.20	19.83	PASS	Horizontal	PK
6	17662.6442	4.32	49.10	53.42	68.20	14.78	PASS	Horizontal	PK
7	1285.4785	1.56	28.86	30.42	54.00	23.58	PASS	Horizontal	AV
8	2035.7536	5.28	27.17	32.45	54.00	21.55	PASS	Horizontal	AV
9	3343.2343	8.25	24.16	32.41	54.00	21.59	PASS	Horizontal	AV
10	7602.5402	-10.55	42.17	31.62	54.00	22.38	PASS	Horizontal	AV
11	12449.73	-4.14	40.75	36.61	54.00	17.39	PASS	Horizontal	AV
12	17094.5063	1.62	34.53	36.15	54.00	17.85	PASS	Horizontal	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5755MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1432.3432	1.85	39.82	41.67	68.20	26.53	PASS	Vertical	PK
2	2413.6414	4.94	39.14	44.08	68.20	24.12	PASS	Vertical	PK
3	3909.2409	9.77	37.14	46.91	68.20	21.29	PASS	Vertical	PK
4	7482.9322	-11.32	54.22	42.90	68.20	25.30	PASS	Vertical	PK
5	10802.0535	-6.19	53.38	47.19	68.20	21.01	PASS	Vertical	PK
6	15962.0641	-0.10	50.68	50.58	68.20	17.62	PASS	Vertical	PK
7	1375.6876	1.78	28.46	30.24	54.00	23.76	PASS	Vertical	AV
8	2441.1441	5.10	26.17	31.27	54.00	22.73	PASS	Vertical	AV
9	3953.7954	10.06	22.80	32.86	54.00	21.14	PASS	Vertical	AV
10	7288.9526	-11.26	42.92	31.66	54.00	22.34	PASS	Vertical	AV
11	11179.2786	-5.86	40.50	34.64	54.00	19.36	PASS	Vertical	AV
12	16451.2301	0.08	37.05	37.13	54.00	16.87	PASS	Vertical	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5795MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1375.1375	1.78	39.97	41.75	68.20	26.45	PASS	Horizontal	PK
2	3085.2585	7.57	38.37	45.94	68.20	22.26	PASS	Horizontal	PK
3	4512.1012	12.23	35.10	47.33	68.20	20.87	PASS	Horizontal	PK
4	8396.0931	-10.67	53.03	42.36	68.20	25.84	PASS	Horizontal	PK
5	13133.6422	-3.06	51.73	48.67	68.20	19.53	PASS	Horizontal	PK
6	16969.5313	2.90	51.04	53.94	68.20	14.26	PASS	Horizontal	PK
7	1375.6876	1.78	31.02	32.80	54.00	21.20	PASS	Horizontal	AV
8	3106.7107	7.66	24.19	31.85	54.00	22.15	PASS	Horizontal	AV
9	4517.6018	12.24	21.88	34.12	54.00	19.88	PASS	Horizontal	AV
10	8420.628	-10.64	41.95	31.31	54.00	22.69	PASS	Horizontal	AV
11	12467.3645	-4.19	40.40	36.21	54.00	17.79	PASS	Horizontal	AV
12	16534.0356	0.72	37.90	38.62	54.00	15.38	PASS	Horizontal	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5795MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1280.5281	1.53	40.25	41.78	68.20	26.42	PASS	Vertical	PK
2	2705.7206	6.14	38.08	44.22	68.20	23.98	PASS	Vertical	PK
3	3696.3696	8.25	37.94	46.19	68.20	22.01	PASS	Vertical	PK
4	9108.3739	-8.58	53.32	44.74	68.20	23.46	PASS	Vertical	PK
5	12597.7065	-4.67	52.74	48.07	68.20	20.13	PASS	Vertical	PK
6	16583.8723	1.19	50.89	52.08	68.20	16.12	PASS	Vertical	PK
7	1247.5248	1.35	28.99	30.34	54.00	23.66	PASS	Vertical	AV
8	2680.9681	6.04	25.71	31.75	54.00	22.25	PASS	Vertical	AV
9	3696.9197	8.25	26.65	34.90	54.00	19.10	PASS	Vertical	AV
10	9199.6133	-7.72	41.77	34.05	54.00	19.95	PASS	Vertical	AV
11	12443.5962	-4.12	40.71	36.59	54.00	17.41	PASS	Vertical	AV
12	16528.6686	0.67	37.65	38.32	54.00	15.68	PASS	Vertical	AV

Test_Mode	802.11 ac(VHT80) Transmitting	Test_Frequency	5210MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1314.0814	1.19	39.75	40.94	68.20	27.26	PASS	Horizontal	PK
2	2155.6656	4.43	39.79	44.22	68.20	23.98	PASS	Horizontal	PK
3	3310.231	7.40	37.58	44.98	68.20	23.22	PASS	Horizontal	PK
4	7614.9807	-10.63	52.85	42.22	68.20	25.98	PASS	Horizontal	PK
5	11755.7628	-6.02	52.86	46.84	68.20	21.36	PASS	Horizontal	PK
6	16934.4717	2.75	50.81	53.56	68.20	14.64	PASS	Horizontal	PK
7	1286.0286	1.11	28.71	29.82	54.00	24.18	PASS	Horizontal	AV
8	2099.0099	5.05	26.97	32.02	54.00	21.98	PASS	Horizontal	AV
9	3311.3311	7.41	24.19	31.60	54.00	22.40	PASS	Horizontal	AV
10	7500.55	-11.28	43.23	31.95	54.00	22.05	PASS	Horizontal	AV
11	11952.4226	-5.12	41.35	36.23	54.00	17.77	PASS	Horizontal	AV
12	16544.6022	0.82	38.70	39.52	54.00	14.48	PASS	Horizontal	AV

Test_Mode	802.11 ac(VHT80) Transmitting	Test_Frequency	5210MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1299.2299	1.15	40.03	41.18	68.20	27.02	PASS	Vertical	PK
2	2100.11	5.05	38.47	43.52	68.20	24.68	PASS	Vertical	PK
3	3839.3839	8.69	36.03	44.72	68.20	23.48	PASS	Vertical	PK
4	7475.2488	-11.33	53.80	42.47	68.20	25.73	PASS	Vertical	PK
5	11662.6081	-6.04	53.74	47.70	68.20	20.50	PASS	Vertical	PK
6	16377.2689	0.00	51.44	51.44	68.20	16.76	PASS	Vertical	PK
7	1279.978	1.08	29.01	30.09	54.00	23.91	PASS	Vertical	AV
8	2102.8603	5.01	26.93	31.94	54.00	22.06	PASS	Vertical	AV
9	3837.7338	8.68	22.75	31.43	54.00	22.57	PASS	Vertical	AV
10	7476.3988	-11.33	43.42	32.09	54.00	21.91	PASS	Vertical	AV
11	11799.465	-6.20	42.28	36.08	54.00	17.92	PASS	Vertical	AV
12	16527.9264	0.66	38.20	38.86	54.00	15.14	PASS	Vertical	AV

Test_Mode	802.11 ac(VHT80) Transmitting	Test_Frequency	5290MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1257.9758	1.01	41.18	42.19	68.20	26.01	PASS	Horizontal	PK
2	2041.2541	4.80	39.55	44.35	68.20	23.85	PASS	Horizontal	PK
3	3320.132	7.43	37.70	45.13	68.20	23.07	PASS	Horizontal	PK
4	7432.6966	-11.42	54.63	43.21	68.20	24.99	PASS	Horizontal	PK
5	11244.5622	-6.10	52.51	46.41	68.20	21.79	PASS	Horizontal	PK
6	16445.6973	0.05	52.60	52.65	68.20	15.55	PASS	Horizontal	PK
7	1277.2277	1.08	28.96	30.04	54.00	23.96	PASS	Horizontal	AV
8	2035.2035	4.77	27.20	31.97	54.00	22.03	PASS	Horizontal	AV
9	3202.4202	6.98	24.78	31.76	54.00	22.24	PASS	Horizontal	AV
10	7594.2797	-10.58	42.77	32.19	54.00	21.81	PASS	Horizontal	AV
11	11242.8371	-6.08	41.13	35.05	54.00	18.95	PASS	Horizontal	AV
12	16526.7763	0.65	38.69	39.34	54.00	14.66	PASS	Horizontal	AV

Test_Mode	802.11 ac(VHT80) Transmitting	Test_Frequency	5290MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1321.7822	1.21	41.83	43.04	68.20	25.16	PASS	Vertical	PK
2	2531.3531	5.17	38.44	43.61	68.20	24.59	PASS	Vertical	PK
3	4402.0902	11.22	35.50	46.72	68.20	21.48	PASS	Vertical	PK
4	7671.9086	-11.01	54.02	43.01	68.20	25.19	PASS	Vertical	PK
5	13189.8845	-2.99	51.30	48.31	68.20	19.89	PASS	Vertical	PK
6	17006.9253	2.92	50.14	53.06	68.20	15.14	PASS	Vertical	PK
7	1318.4818	1.21	28.96	30.17	54.00	23.83	PASS	Vertical	AV
8	2564.9065	5.15	25.98	31.13	54.00	22.87	PASS	Vertical	AV
9	4333.8834	11.04	22.16	33.20	54.00	20.80	PASS	Vertical	AV
10	7485.5993	-11.31	43.60	32.29	54.00	21.71	PASS	Vertical	AV
11	13156.5328	-3.03	40.07	37.04	54.00	16.96	PASS	Vertical	AV
12	16531.9516	0.70	38.70	39.40	54.00	14.60	PASS	Vertical	AV

Test_Mode	802.11 ac(VHT80) Transmitting	Test_Frequency	5775MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1284.9285	1.55	40.23	41.78	68.20	26.42	PASS	Horizontal	PK
2	2069.857	5.47	39.63	45.10	68.20	23.10	PASS	Horizontal	PK
3	3502.2002	8.35	37.35	45.70	68.20	22.50	PASS	Horizontal	PK
4	7656.9771	-10.90	53.13	42.23	68.20	25.97	PASS	Horizontal	PK
5	12436.6958	-4.11	51.99	47.88	68.20	20.32	PASS	Horizontal	PK
6	16944.2296	2.79	50.68	53.47	68.20	14.73	PASS	Horizontal	PK
7	1286.5787	1.57	28.82	30.39	54.00	23.61	PASS	Horizontal	AV
8	2037.9538	5.29	27.15	32.44	54.00	21.56	PASS	Horizontal	AV
9	3452.6953	8.26	23.69	31.95	54.00	22.05	PASS	Horizontal	AV
10	7595.6397	-10.56	41.97	31.41	54.00	22.59	PASS	Horizontal	AV
11	12443.5962	-4.12	40.93	36.81	54.00	17.19	PASS	Horizontal	AV
12	16610.7074	1.38	37.56	38.94	54.00	15.06	PASS	Horizontal	AV

Test_Mode	802.11 ac(VHT80) Transmitting	Test_Frequency	5775MHz
Remark			

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1319.0319	1.68	40.46	42.14	68.20	26.06	PASS	Vertical	PK
2	2099.0099	5.63	40.09	45.72	68.20	22.48	PASS	Vertical	PK
3	3908.6909	9.76	37.05	46.81	68.20	21.39	PASS	Vertical	PK
4	7351.8235	-11.35	54.09	42.74	68.20	25.46	PASS	Vertical	PK
5	11896.9265	-5.46	53.74	48.28	68.20	19.92	PASS	Vertical	PK
6	17009.4006	2.88	50.51	53.39	68.20	14.81	PASS	Vertical	PK
7	1375.6876	1.78	28.80	30.58	54.00	23.42	PASS	Vertical	AV
8	2035.7536	5.28	27.29	32.57	54.00	21.43	PASS	Vertical	AV
9	3804.7305	9.38	23.25	32.63	54.00	21.37	PASS	Vertical	AV
10	7510.534	-11.20	42.68	31.48	54.00	22.52	PASS	Vertical	AV
11	11961.3308	-5.06	41.08	36.02	54.00	17.98	PASS	Vertical	AV
12	16610.7074	1.38	36.87	38.25	54.00	15.75	PASS	Vertical	AV

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

5.9 Radiated Emission which fall in the restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.407 (b)				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed					

	the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. Note: (i) $EIRP = ((E*d)^2) / 30$ where: • E is the field strength in V/m; • d is the measurement distance in meters; • EIRP is the equivalent isotropically radiated power in watts. (ii) Working in dB units, the above equation is equivalent to: $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$ (iii) Or, if d is 3 meters: $EIRP[dBm] = E[dB\mu V/m] - 95.2$
Test Setup:	

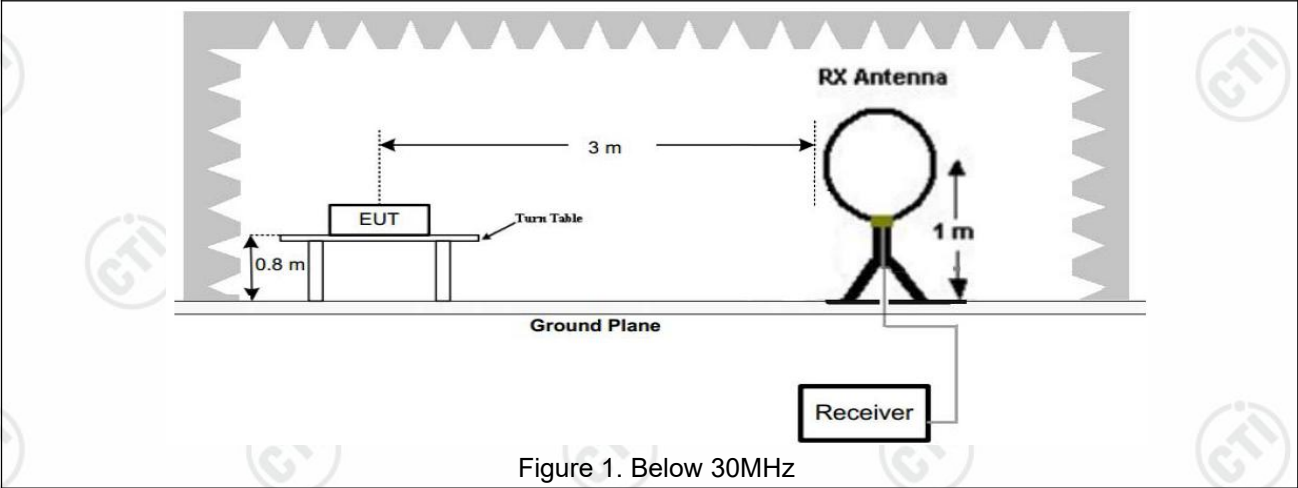


Figure 1. Below 30MHz

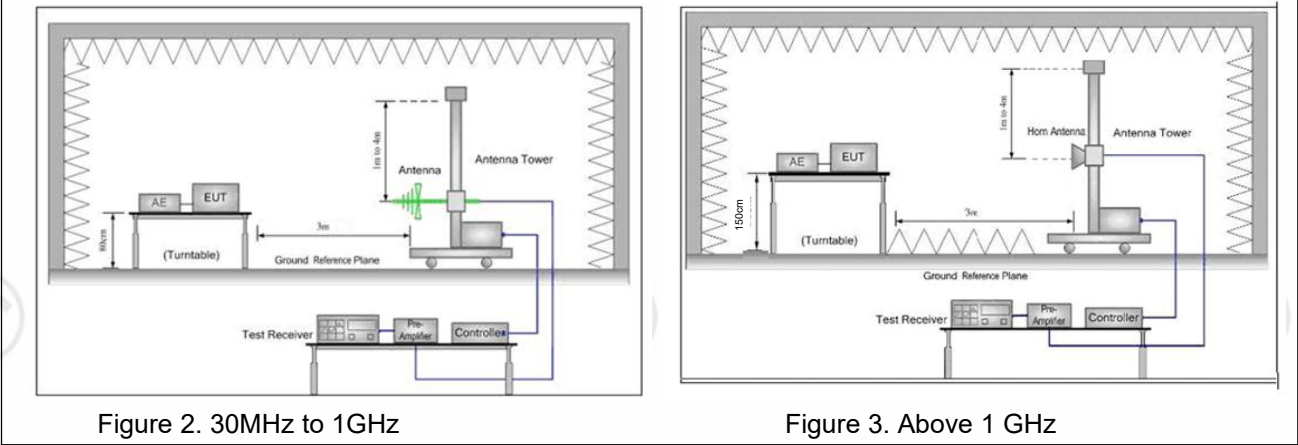


Figure 2. 30MHz to 1GHz

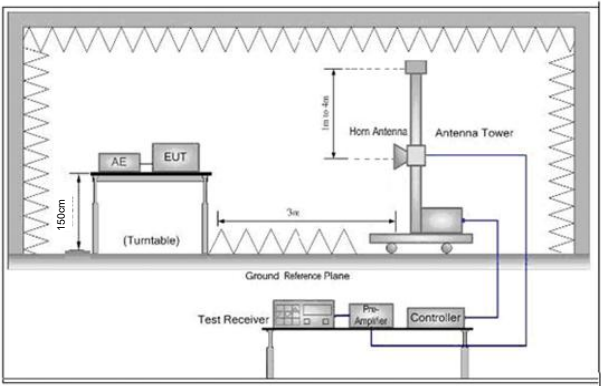


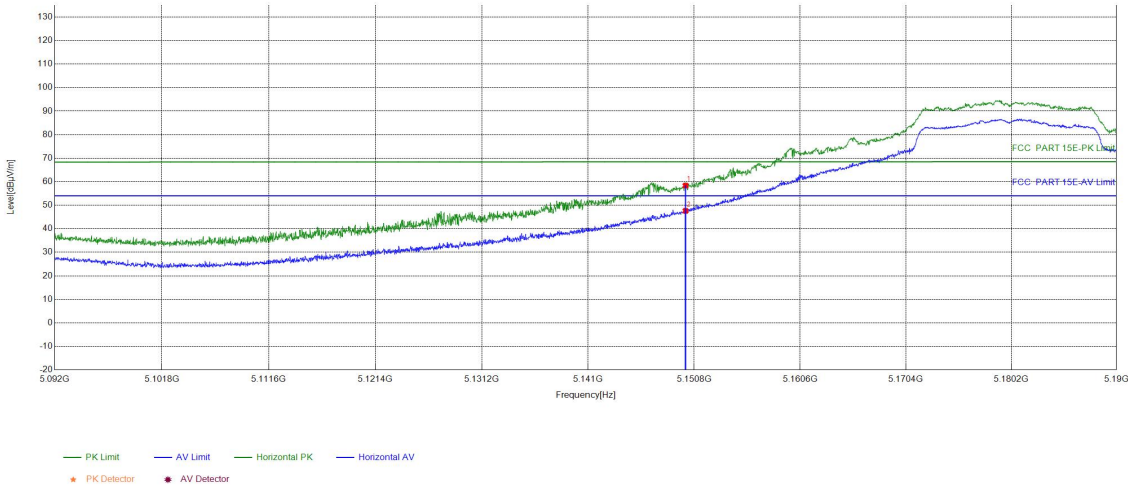
Figure 3. Above 1 GHz

Test Procedure:	j. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. k. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. l. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. m. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. n. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. o. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. p. Test the EUT in the lowest channel, the Highest channel q. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. r. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting mode with modulation
Test Results:	Pass

Test Data:

Test_Mode	802.11 a Transmitting	Test_Frequency	5180MHz
Remark			

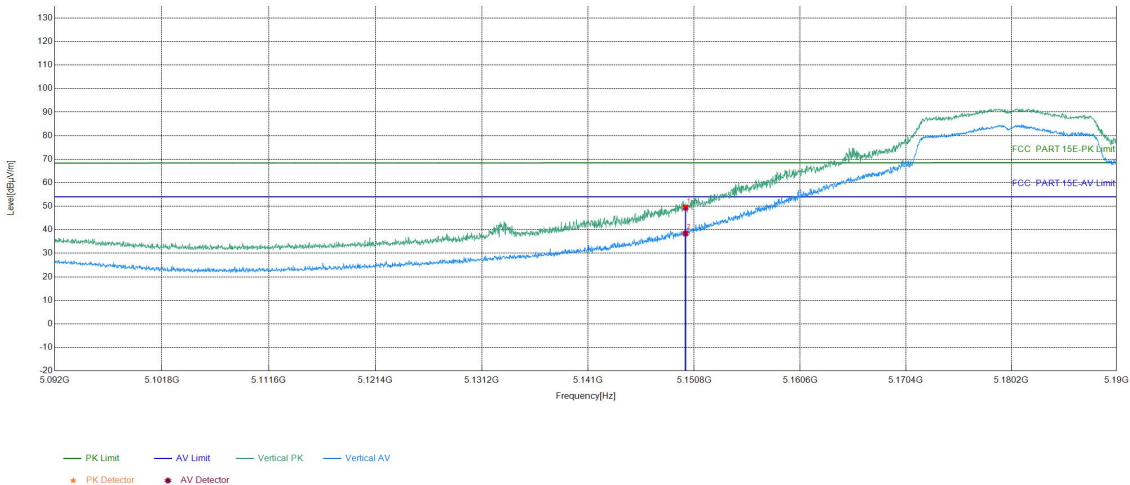
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-15.08	73.44	58.36	68.44	10.08	PASS	Horizontal	PK
2	5150	-15.08	62.70	47.62	54.00	6.38	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5180MHz
Remark			

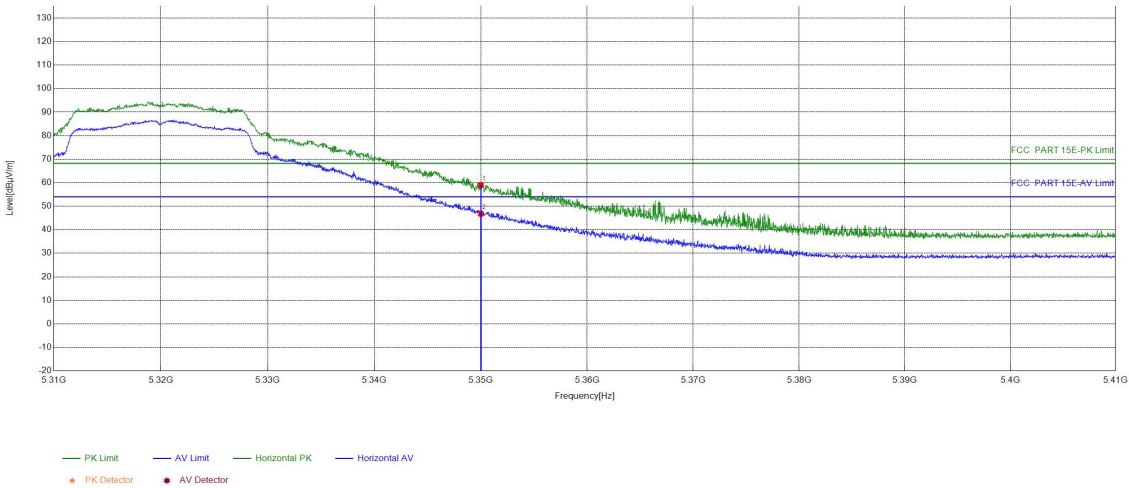
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-15.08	64.48	49.40	68.44	19.04	PASS	Vertical	PK
2	5150	-15.08	53.50	38.42	54.00	15.58	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5320MHz
Remark			

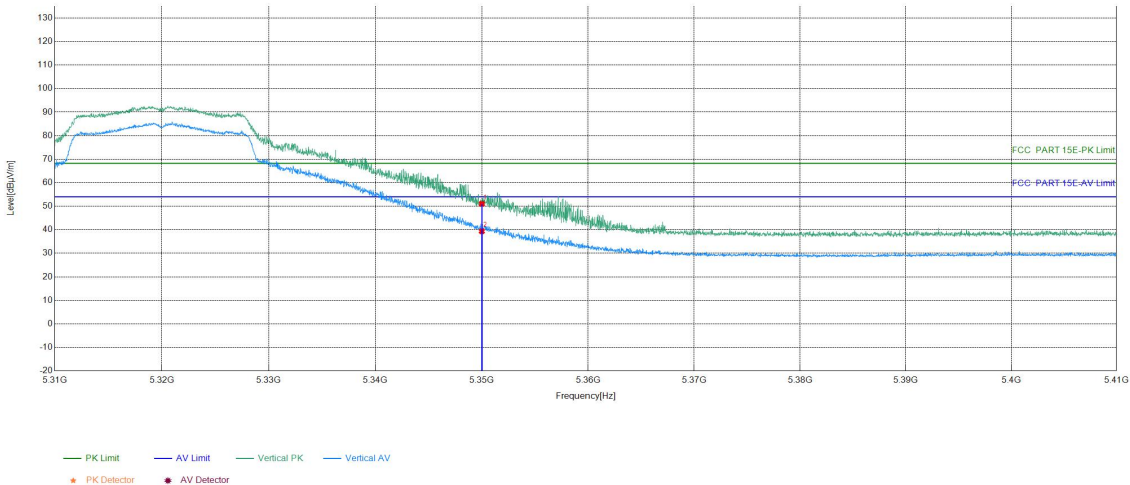
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	-14.67	73.66	58.99	68.20	9.21	PASS	Horizontal	PK
2	5350	-14.67	61.46	46.79	54.00	7.21	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5320MHz
Remark			

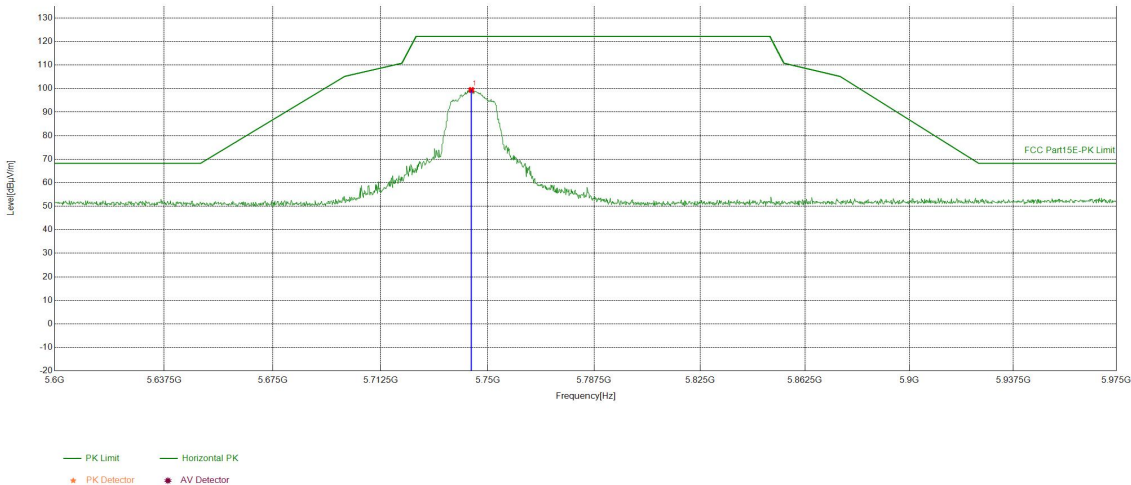
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	-14.67	65.69	51.02	68.20	17.18	PASS	Vertical	PK
2	5350	-14.67	54.04	39.37	54.00	14.63	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5745MHz
Remark			

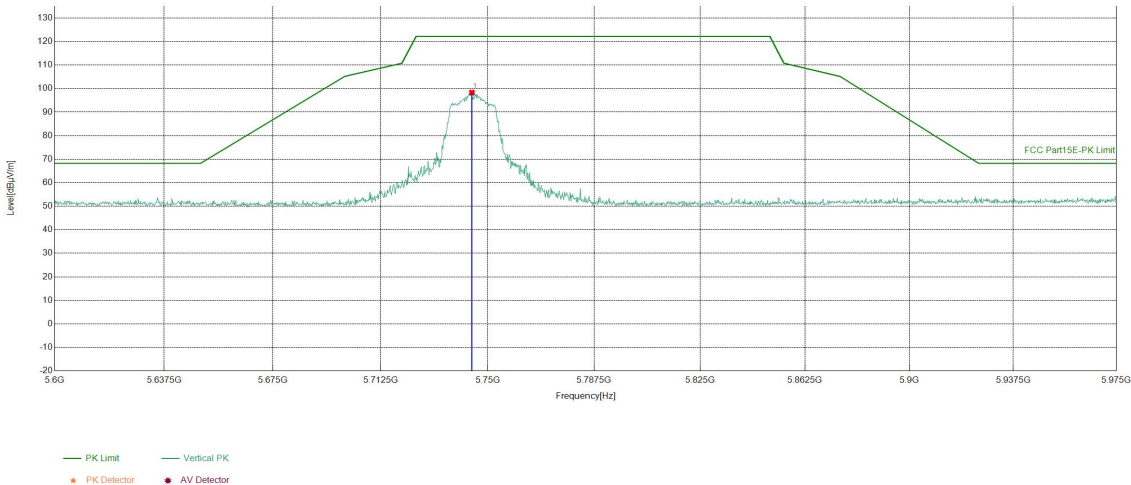
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5744.2596	13.84	85.57	99.41	122.20	22.79	PASS	Horizontal	PK

Test_Mode	802.11 a Transmitting	Test_Frequency	5745MHz
Remark			

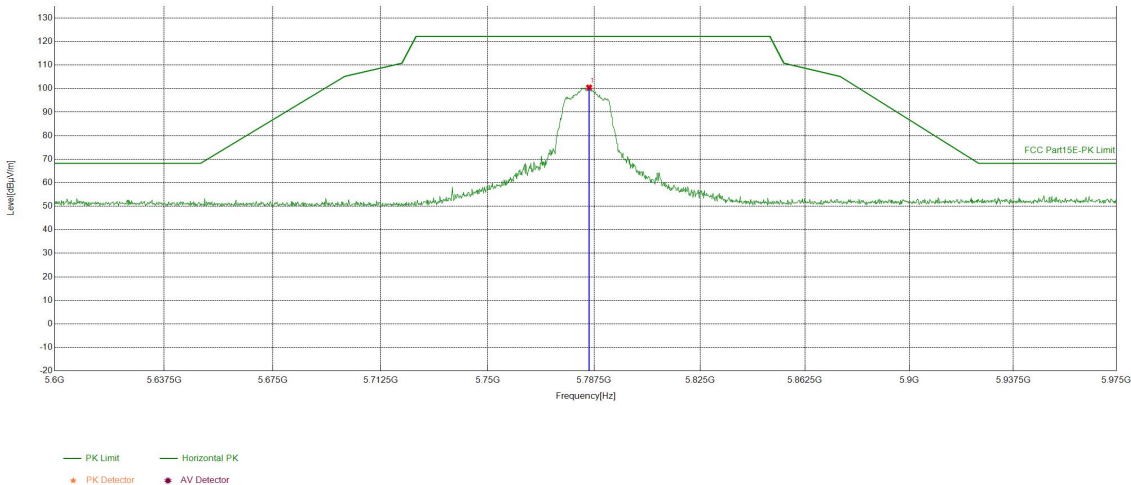
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5744.4472	13.84	84.49	98.33	122.20	23.87	PASS	Vertical	PK

Test_Mode	802.11 a Transmitting	Test_Frequency	5785MHz
Remark			

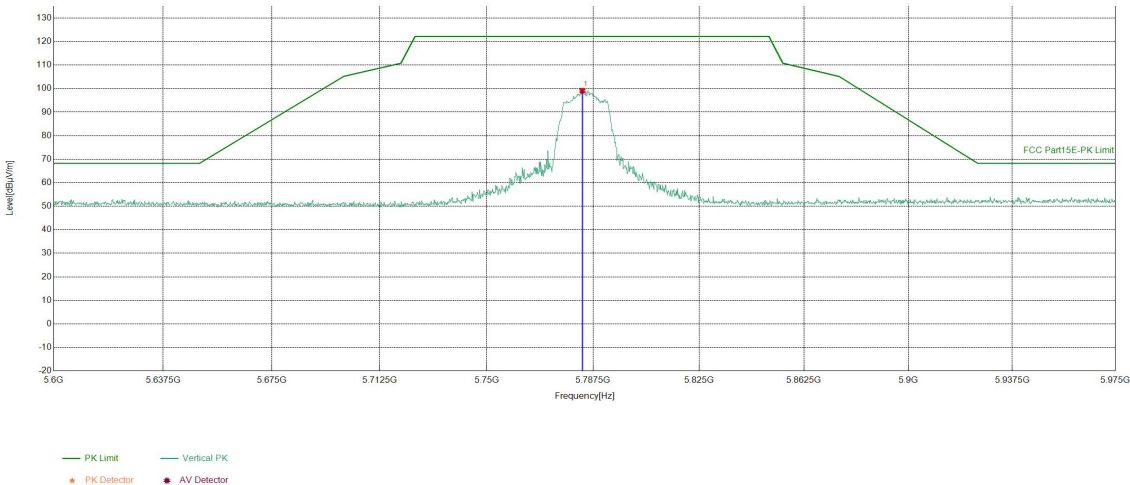
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5785.7179	13.92	86.58	100.50	122.20	21.70	PASS	Horizontal	PK

Test_Mode	802.11 a Transmitting	Test_Frequency	5785MHz
Remark			

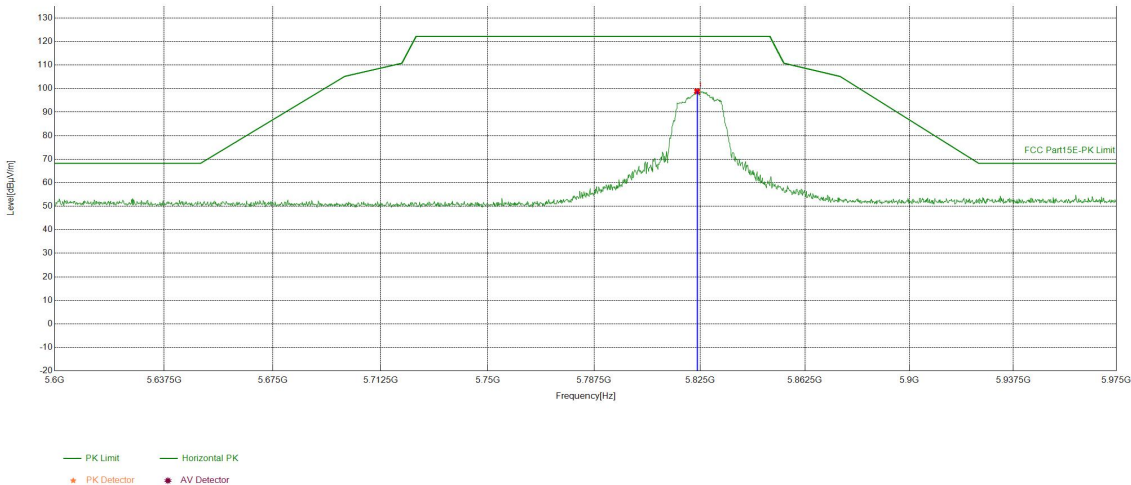
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5783.6543	13.91	85.20	99.11	122.20	23.09	PASS	Vertical	PK

Test_Mode	802.11 a Transmitting	Test_Frequency	5825MHz
Remark			

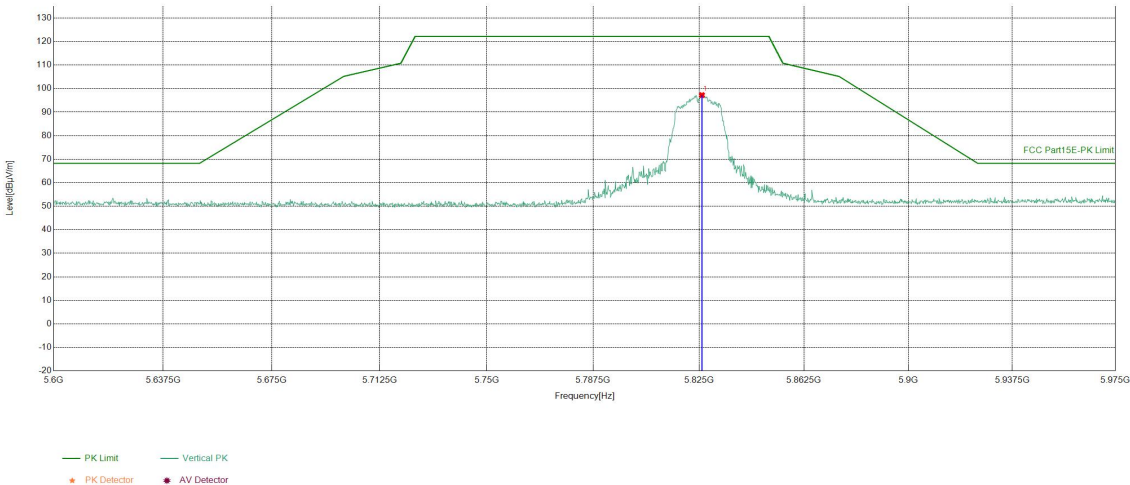
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5823.987	14.03	84.82	98.85	122.20	23.35	PASS	Horizontal	PK

Test_Mode	802.11 a Transmitting	Test_Frequency	5825MHz
Remark			

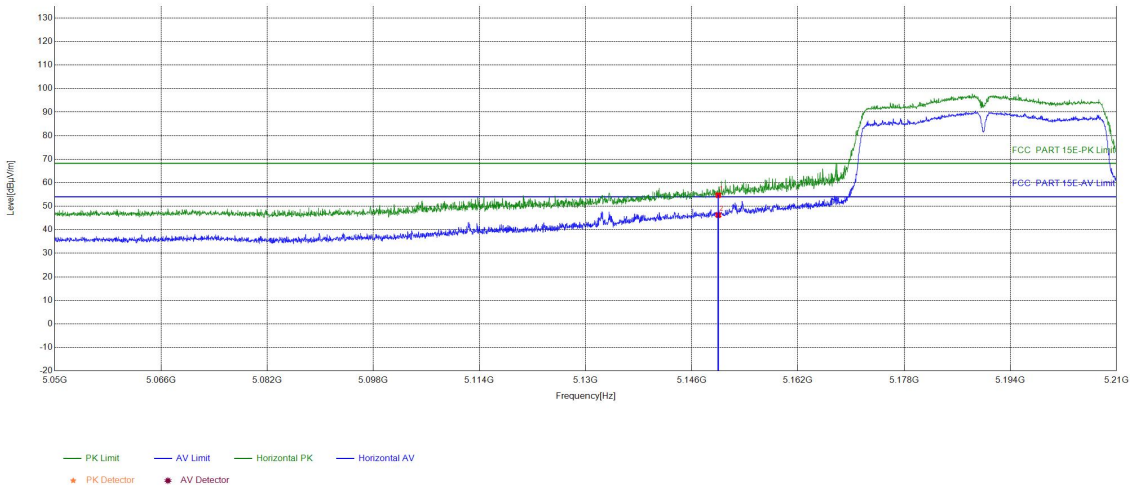
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5826.0505	14.03	83.20	97.23	122.20	24.97	PASS	Vertical	PK

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5190MHz
Remark			

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	12.35	42.34	54.69	68.20	13.51	PASS	Horizontal	PK
2	5150	12.35	33.87	46.22	54.00	7.78	PASS	Horizontal	AV