

TEST REPORT

Product : Intelligent Blackboard/LCD touch display/
Interactive Flat Panel/LCD Interactive Whiteboard/
Intelligent Interactive Panel/Interactive conference Panel/
LCD commercial display/LCD advertising display/
LCD splicing unit

Trade mark : OKV/OKView

Model/Type reference : Refer to section 5.2

Serial Number : N/A

Report Number : EED32P80580502

FCC ID : 2BA7A-IWB5536

Date of Issue : Jun. 15, 2023

Test Standards : 47 CFR Part 15 Subpart E

Test result : PASS

Prepared for:

SHENZHEN OKVIEW TECHNOLOGY CO.,LIMITED
202, Building A, No.2Huangdiyin Industrial Zone, Kukeng Community,
Guanlan Street, Longhua District, Shenzhen

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**

Compiled by:

Frazer Li

Frazer Li

Reviewed by:

Tom Chen

Tom Chen

Approved by:

Aaron Ma

Aaron Ma

Date:

Jun. 15, 2023

Check No.: 8102240423



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3 Version

Version No.	Date	Description
00	Jun. 15, 2023	Original

4 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
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.		

5 General Information

5.1 Client Information

Applicant:	SHENZHEN OKVIEW TECHNOLOGY CO.,LIMITED
Address of Applicant:	202, Building A, No.2Huangdiyin Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen
Manufacturer:	SHENZHEN OKVIEW TECHNOLOGY CO.,LIMITED
Address of Manufacturer:	202, Building A, No.2Huangdiyin Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen
Factory :	SHENZHEN OKVIEW TECHNOLOGY CO.,LIMITED
Address of Factory :	202, Building A, No.2Huangdiyin Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen

5.2 General Description of EUT

Product Name:	Intelligent Blackboard/LCD touch display/ Interactive Flat Panel/LCD Interactive Whiteboard/ Intelligent Interactive Panel/Interactive conference Panel/ LCD commercial display/LCD advertising display/ LCD splicing unit
Test Model No.:	IWB5536
Model/Type reference & Model difference:	IWB5531,IWB5533,IWB5535,IWB5536,IWB5537,IWB5538,IWB5539,IWB5551,IWB5552,IWB5553,IWB5555,IWB5556,IWB5557,IWB5558,IWB5559,V55C1,V55C2,V55C3,V55C5,V55C6,V55C7,V55C8,V55C9,K55V1,K55V2,K55V3,K55V5,K55V6,K55V7,K55V8,K55V9,IWB6531,IWB6533,IWB6535,IWB6536,IWB6537,IWB6538,IWB6539,IWB6551,IWB6552,IWB6553,IWB6555,IWB6556,IWB6557,IWB6558,IWB6559,V65C1,V65C2,V65C3,V65C5,V65C6,V65C7,V65C8,V65C9,K65V1,K65V2,K65V3,K65V5,K65V6,K65V7,K65V8,K65V9,IWB7531,IWB7533,IWB7535,IWB7536,IWB7537,IWB7538,IWB7539,IWB7551,IWB7552,IWB7553,IWB7555,IWB7556,IWB7557,IWB7558,IWB7559,V75C1,V75C2,V75C3,V75C5,V75C6,V75C7,V75C8,V75C9,K75V1,K75V2,K75V3,K75V5,K75V6,K75V7,K75V8,K75V9,IWB8631,IWB8633,IWB8635,IWB8636,IWB8637,IWB8638,IWB8639,IWB8651,IWB8652,IWB8653,IWB8655,IWB8656,IWB8657,IWB8658,IWB8659,V86C1,V86C2,V86C3,V86C5,V86C6,V86C7,V86C8,V86C9,K86V1,K86V2,K86V3,K86V5,K86V6,K86V7,K86V8,K86V9,VW46*** (V), VW46***- H (V), VW46*** (KY), VW46***-H (KY), VW46*** (K), VW46***-H (K), VW49*** (V), VW49***-H (V), VW49*** (KY), VW49***-H (KY), VW49*** (K), VW49***-H (K), DS49***, DS49***-T, SM4921, SM4922, SM49* *, VW55*** (V), VW55***- H (V), VW55*** (KY), VW55***- H (KY), VW55*** (K), VW55***-H (K), DS55***, DS55***-T, SM5521, SM5522, SM55* *, VW65*** (V), VW65***-H (V), VW65*** (KY), VW65***-H (KY), VW65*** (K), VW65***-H (K), DS65***, DS65***T, SM6521, SM6522, SM65** *, SM7521, SM7522, SM75** *, SM8621, SM8622, SM86* * (the "***" in the model number can be 0-9, A-Z or blank, vacant or - means, different models are only the appearance color, customer code, sales area is different, does not affect

	the safety and electromagnetic compatibility of the product) are identical on circuitry design, PCB layout, electrical components used, internal wiring and functions with the model,item No.:IWB5536 which we chose to be tested by CTI and only different on different models are only the appearance color, sales area is different, does not affect the safety and electromagnetic compatibility of the product.
Trade mark:	OKV/OKView
Product Type:	☒ Mobile ☐ Portable ☐ Fix Location
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): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) IEEE 802.11ax(HE20/HE40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM)
Operating Frequency	U-NII-1: 5150-5250MHz
Antenna Type:	External antenna
Antenna Gain:	2.46dBi
Test voltage:	AC 120V
Sample Received Date:	Apr. 25, 2023
Sample tested Date:	May 19, 2023 to Jun 15, 2023

Operation Frequency each of channel

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

U-NII-1	
Channel	Frequency(MHz)
36	5180
40	5200
44	5220
48	5240
-	-

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

U-NII-1	
Channel	Frequency(MHz)
38	5190
46	5230

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:

5.3 Test Configuration

EUT Test Software Settings:	
Software:	SecureCRTPortable.exe
EUT Power Grade:	Default
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
802.11ax(HE20)	MCS0
802.11ax(HE40)	MCS0

5.4 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)	40 °C
Working Voltage of the EUT:	NV (Normal Voltage)	AC120V
	LV (Low Voltage)	AC108V
	HV (High Voltage)	AC132V

5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	ASUSTek	/	FCC&CE	CTI
Netbook	HP	HP14q-bu101TX	FCC&CE	CTI

5.6 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

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 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-18GHz)
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%

6 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-23-2022	12-22-2023
Signal Generator	Keysight	N5182B	MY53051549	12-19-2022	12-18-2023
DC Power	Keysight	E3642A	MY56376072	12-19-2022	12-18-2023
Communication test set	R&S	CMW500	169004	03-15-2023	03-14-2024
RF control unit(power unit)	JS Tonscend	JS0806-2	/	/	/
Wi-Fi 7GHz Band Extender	JS Tonscend	TS-WF7U2	/	/	/
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-19-2022	12-18-2023
Temperature/Humidity Indicator	biaozhi	HM10	1804186	06-16-2022	06-15-2023
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	V3.2.22	---	---

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-25-2023	04-24-2024
LISN	R&S	ENV216	100098	09-27-2022	09-26-2023
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	07-13-2022	07-12-2023
ISN	TESEQ	ISN T800	30297	12-29-2022	12-28-2023
Barometer	changchun	DYM3	1188	---	---
Temperature/Humidity Indicator	Defu	TH128	/	---	---

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
Spectrum Analyzer	R&S	FSV40	101200	07-29-2022	07-28-2023
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-22-2022 09-29-2022	05-21-2023 09-28-2023
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-17-2021	04-16-2024
Horn Antenna	A.H.SYSTEMS	SAS-574	374	05-29-2021	05-28-2024
Preamplifier	Agilent	11909A	12-1	03-28-2023	03-27-2024
Preamplifier	EMCI	EMC051845SE	980380	12-23-2022	12-22-2023
Preamplifier	CD	PAP-1840-60	6041.6042	07-05-2022	07-04-2023
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

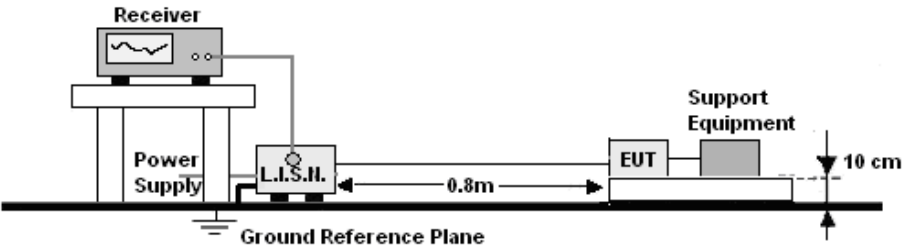
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2021	01-08-2024
Receiver	Keysight	N9038A	MY57290136	02-27-2023	02-26-2024
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-21-2023	02-20-2024
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-21-2023	02-20-2024
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-30-2021	04-29-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-17-2021	04-16-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-29-2022	07-28-2023
Preamplifier	EMCI	EMC184055SE	980597	04-13-2023	04-12-2024
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2023	04-10-2024
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
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	---	---

7 Radio Technical Requirements Specification

7.1 Antenna Requirement

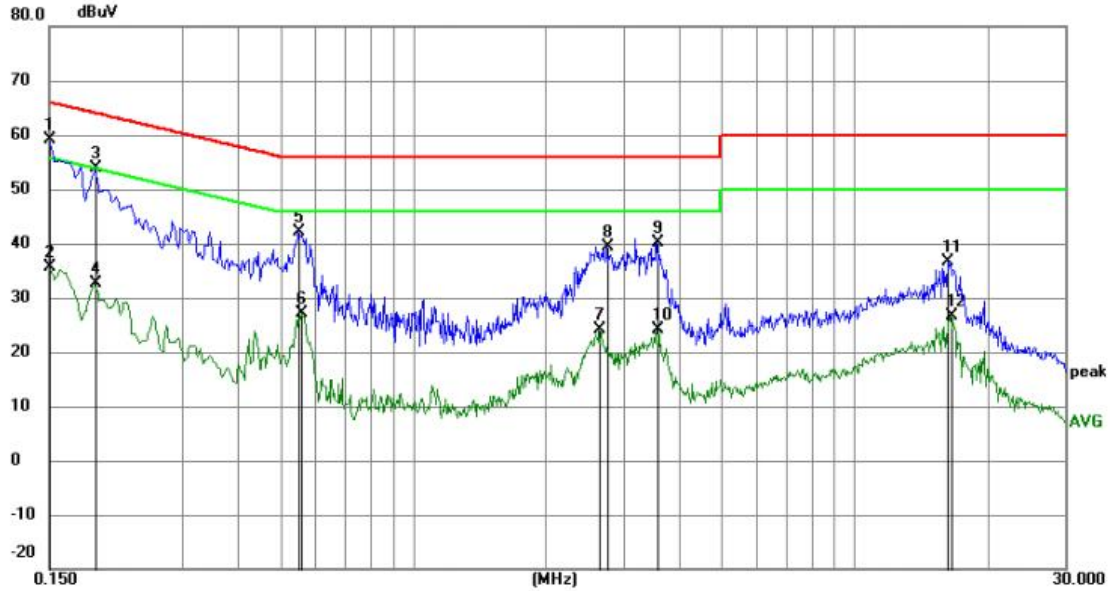
Standard requirement:	47 CFR Part 15C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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 Extranal antenna. The best case gain of the antenna is 2.46dBi.	

7.2 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 of 5240MHz of 11N20SISO was recorded in the report.		
Test Results:	Pass		

Measurement Data

Live line:

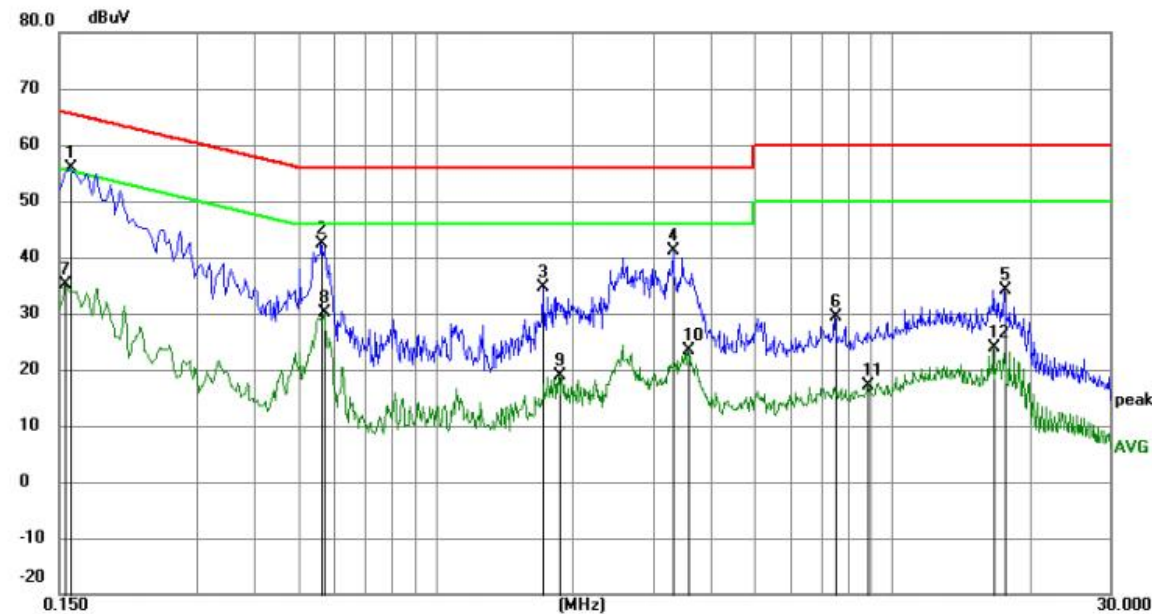


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	49.26	9.87	59.13	66.00	-6.87	QP	
2		0.1500	25.72	9.87	35.59	56.00	-20.41	AVG	
3		0.1905	44.07	9.87	53.94	64.01	-10.07	QP	
4		0.1905	22.68	9.87	32.55	54.01	-21.46	AVG	
5		0.5505	32.06	10.01	42.07	56.00	-13.93	QP	
6		0.5595	17.01	10.02	27.03	46.00	-18.97	AVG	
7		2.6475	14.41	9.79	24.20	46.00	-21.80	AVG	
8		2.7554	29.67	9.79	39.46	56.00	-16.54	QP	
9		3.5745	30.34	9.78	40.12	56.00	-15.88	QP	
10		3.5745	14.47	9.78	24.25	46.00	-21.75	AVG	
11		16.2870	26.74	9.94	36.68	60.00	-23.32	QP	
12		16.5120	16.72	9.94	26.66	50.00	-23.34	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:

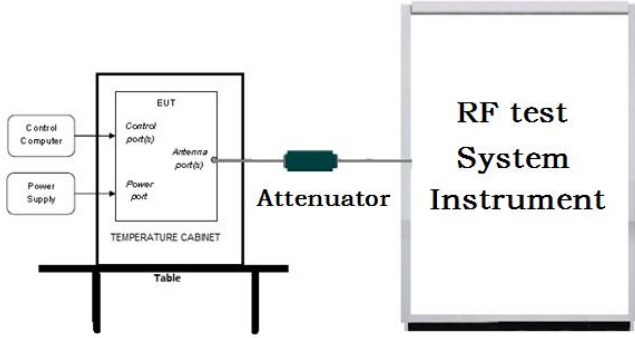


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1	*	0.1590	45.97	9.87	55.84	65.52	-9.68	peak	
2		0.5639	32.45	10.03	42.48	56.00	-13.52	peak	
3		1.7250	24.87	9.80	34.67	56.00	-21.33	peak	
4		3.3225	31.32	9.79	41.11	56.00	-14.89	peak	
5		17.6279	24.11	9.95	34.06	60.00	-25.94	peak	
6		7.4895	19.48	9.79	29.27	60.00	-30.73	peak	
7		0.1545	25.29	9.87	35.16	55.75	-20.59	AVG	
8		0.5730	19.98	10.04	30.02	46.00	-15.98	AVG	
9		1.8600	9.01	9.80	18.81	46.00	-27.19	AVG	
10		3.5835	13.53	9.78	23.31	46.00	-22.69	AVG	
11		8.8350	7.38	9.78	17.16	50.00	-32.84	AVG	
12		16.7055	13.91	9.94	23.85	50.00	-26.15	AVG	

Remark:

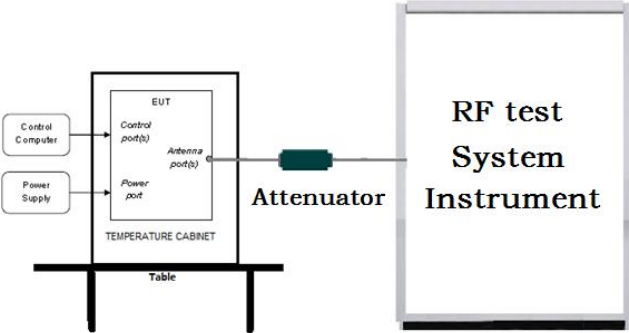
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

7.3 Maximum Conducted Output Power

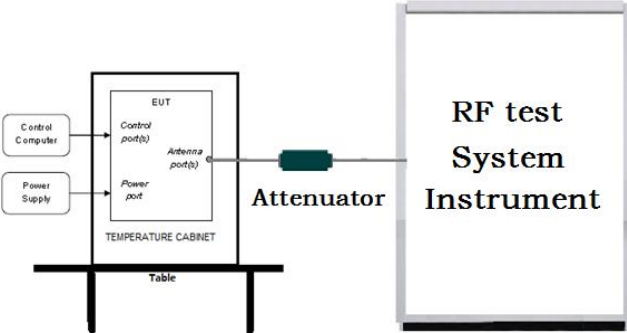
Test Requirement:	47 CFR Part 15C Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E
Test Setup:	
Test Procedure:	1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E.2.d) Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction). The procedure for this method is as follows: (i) Measure the duty cycle, x, of the transmitter output signal. (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal. (iii) Set RBW = 1 MHz. (iv) Set VBW $\geq$ 3 MHz. (v) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.) (vi) Sweep time = auto. (vii) Detector = power averaging (rms), if available. Otherwise, use sample detector mode. (viii) Do not use sweep triggering. Allow the sweep to “free run.” (ix) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter. (x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal. (xi) Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%.

Limit:	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	

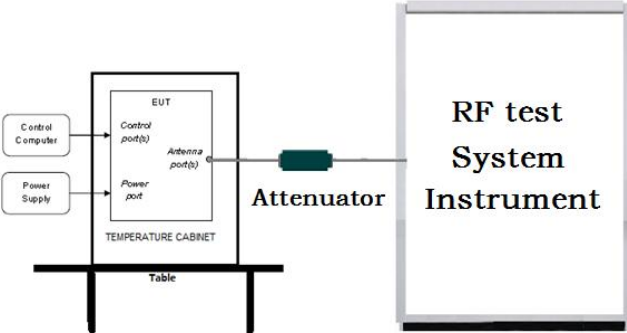
7.4 26dB Emission Bandwidth and 99% Occupied Bandwidth

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

7.5 Maximum Power Spectral Density

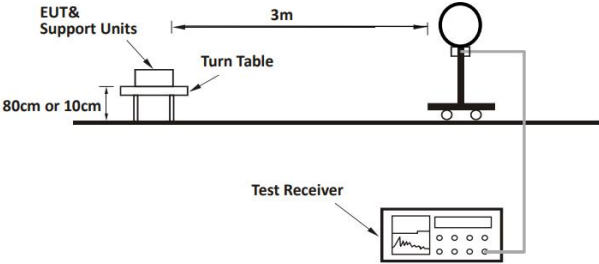
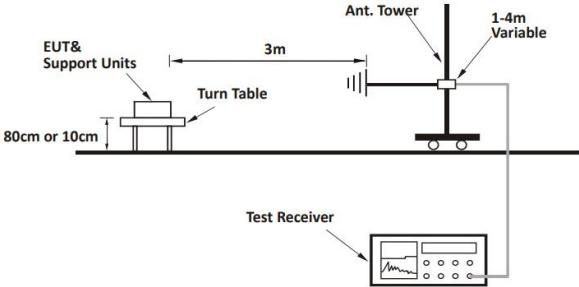
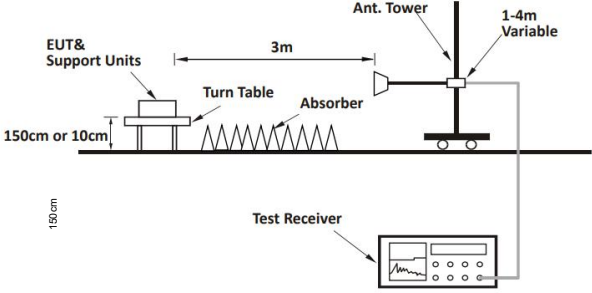
Test Requirement:	47 CFR Part 15C Section 15.407 (a)												
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F												
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.												
Test Procedure:	- Set the spectrum analyzer or EMI receiver span to view 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												

7.6 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

7.7 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					

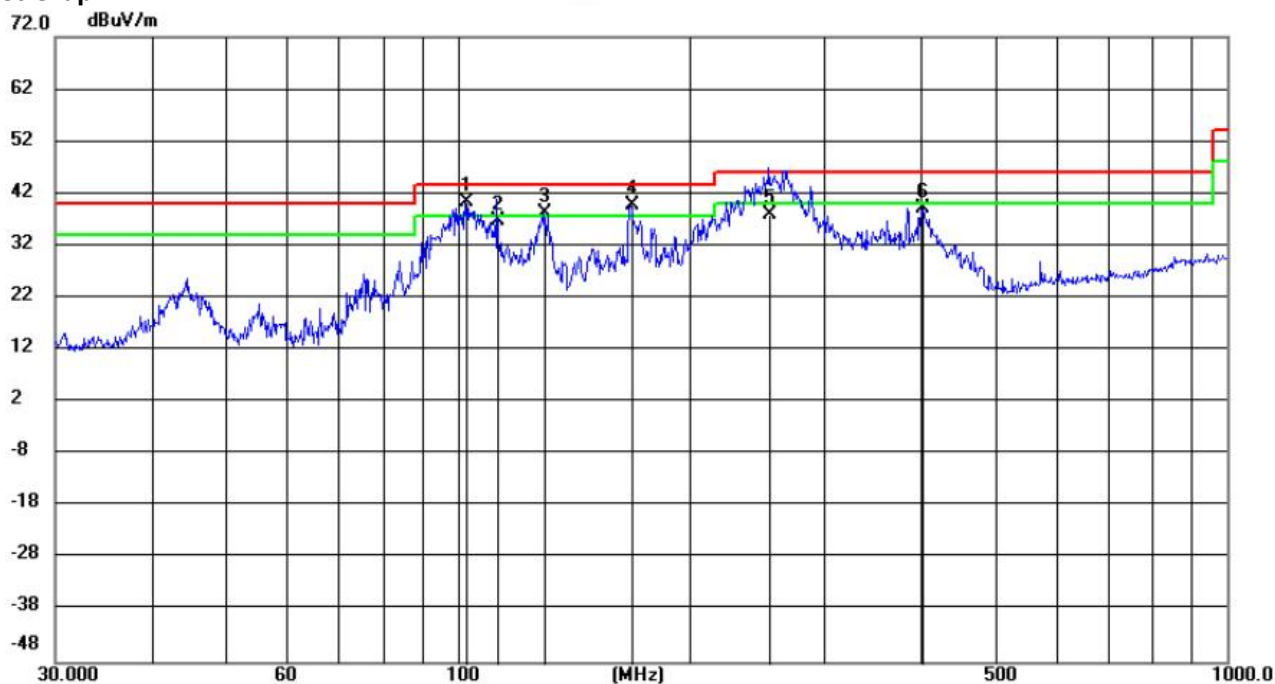
	an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. Note: (i) $EIRP = ((E \cdot d)^2) / 30$ where: • E is the field strength in V/m; • d is the measurement distance in 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 0.1 meters above the ground at a 3 meter semi-anechoic camber. 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 0.1 meters above the ground at a 3 meter semi-anechoic camber. 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. 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

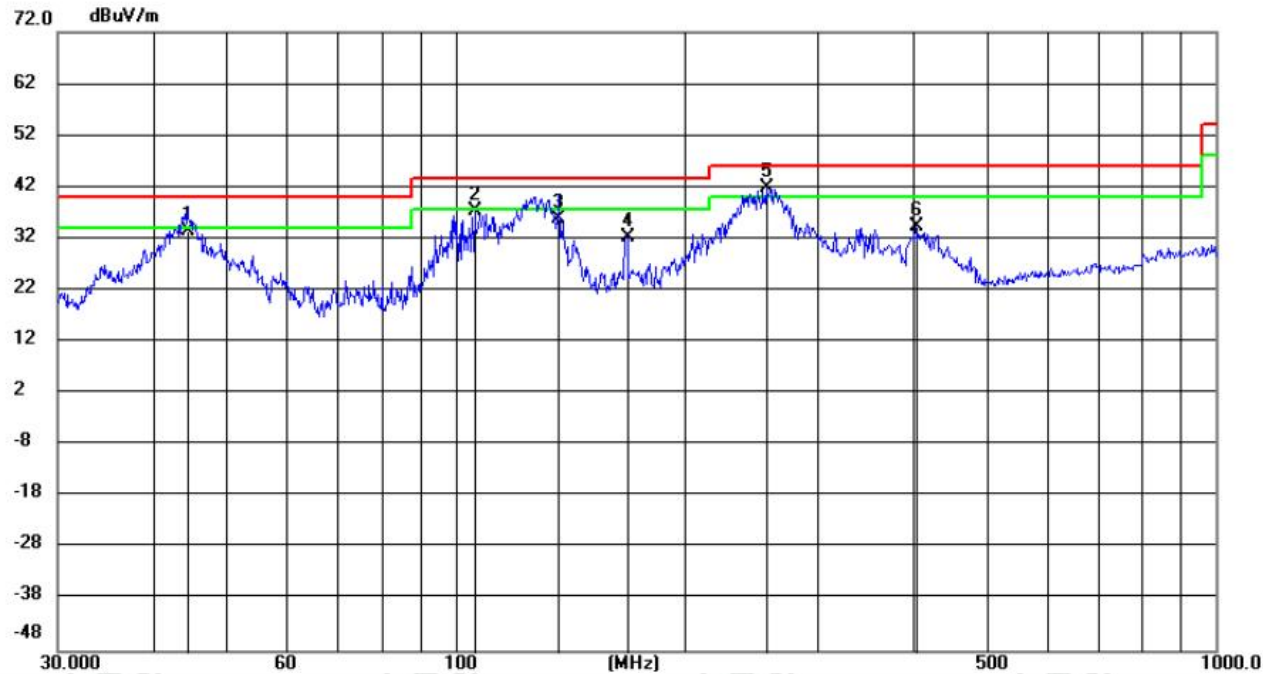
Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of 6Mbps for 802.11 a was recorded in the report.

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	Comment
1	*	102.6832	26.58	13.66	40.24	43.50	-3.26	QP	199	300
2		112.8206	24.56	12.24	36.80	43.50	-6.70	QP	199	300
3	!	129.5586	28.69	9.68	38.37	43.50	-5.13	QP	199	175
4	!	168.0008	28.70	10.97	39.67	43.50	-3.83	QP	199	155
5		254.5497	22.22	15.68	37.90	46.00	-8.10	QP	100	79
6		402.0498	19.65	19.43	39.08	46.00	-6.92	QP	100	7

Vertical:
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		44.5009	19.19	14.41	33.60	40.00	-6.40	QP	100	322
2		106.2918	24.30	13.15	37.45	43.50	-6.05	QP	100	281
3		136.9391	26.52	9.28	35.80	43.50	-7.70	QP	100	270
4		168.1777	21.13	10.99	32.12	43.50	-11.38	QP	100	156
5	*	257.2417	26.14	15.76	41.90	46.00	-4.10	QP	100	352
6		403.6036	14.86	19.47	34.33	46.00	-11.67	QP	100	10

Transmitter Emission above 1GHz

Mode:			802.11 a Transmitting			Channel:		5180MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2040.7041	4.80	38.13	42.93	68.20	25.27	PASS	Horizontal	PK
2	3045.6546	6.67	37.39	44.06	68.20	24.14	PASS	Horizontal	PK
3	4257.9758	10.59	34.26	44.85	68.20	23.35	PASS	Horizontal	PK
4	8383.2192	-10.72	50.64	39.92	68.20	28.28	PASS	Horizontal	PK
5	11899.52	-5.44	49.86	44.42	68.20	23.78	PASS	Horizontal	PK
6	17115.0308	1.83	47.93	49.76	68.20	18.44	PASS	Horizontal	PK
7	2101.2101	5.03	38.35	43.38	68.20	24.82	PASS	Vertical	PK
8	3392.1892	7.56	37.04	44.60	68.20	23.60	PASS	Vertical	PK
9	4519.2519	11.49	35.66	47.15	68.20	21.05	PASS	Vertical	PK
10	8927.1964	-9.04	50.74	41.70	68.20	26.50	PASS	Vertical	PK
11	11967.9484	-5.03	48.93	43.90	68.20	24.30	PASS	Vertical	PK
12	16510.6755	0.50	47.95	48.45	68.20	19.75	PASS	Vertical	PK

Mode:			802.11 n(HT20) Transmitting			Channel:		5180MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1393.2893	1.42	38.67	40.09	68.20	28.11	PASS	Horizontal	PK
2	2090.209	5.01	38.34	43.35	68.20	24.85	PASS	Horizontal	PK
3	3367.9868	7.52	37.42	44.94	68.20	23.26	PASS	Horizontal	PK
4	9238.2869	-7.67	49.08	41.41	68.20	26.79	PASS	Horizontal	PK
5	11961.0481	-5.07	49.07	44.00	68.20	24.20	PASS	Horizontal	PK
6	16925.2713	2.71	46.78	49.49	68.20	18.71	PASS	Horizontal	PK
7	1432.8933	1.48	39.84	41.32	68.20	26.88	PASS	Vertical	PK
8	2107.8108	4.96	37.71	42.67	68.20	25.53	PASS	Vertical	PK
9	3205.1705	6.99	37.09	44.08	68.20	24.12	PASS	Vertical	PK
10	9072.1036	-8.58	49.10	40.52	68.20	27.68	PASS	Vertical	PK
11	11243.9872	-6.09	49.73	43.64	68.20	24.56	PASS	Vertical	PK
12	16458.9229	0.13	48.39	48.52	68.20	19.68	PASS	Vertical	PK

Mode:			802.11 ac(VHT20) Transmitting			Channel:		5180MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1466.9967	1.54	38.20	39.74	68.20	28.46	PASS	Horizontal	PK
2	2106.7107	4.98	37.89	42.87	68.20	25.33	PASS	Horizontal	PK
3	2938.3938	6.39	38.24	44.63	68.20	23.57	PASS	Horizontal	PK
4	7602.9051	-10.55	50.23	39.68	68.20	28.52	PASS	Horizontal	PK
5	12432.5716	-4.09	49.11	45.02	68.20	23.18	PASS	Horizontal	PK
6	17007.5004	2.91	46.76	49.67	68.20	18.53	PASS	Horizontal	PK
7	1515.4015	1.71	38.49	40.20	68.20	28.00	PASS	Vertical	PK
8	2036.8537	4.78	39.20	43.98	68.20	24.22	PASS	Vertical	PK
9	3317.3817	7.42	37.35	44.77	68.20	23.43	PASS	Vertical	PK
10	7594.8547	-10.57	50.83	40.26	68.20	27.94	PASS	Vertical	PK
11	10302.6651	-6.25	48.23	41.98	68.20	26.22	PASS	Vertical	PK
12	17127.1064	2.05	46.49	48.54	68.20	19.66	PASS	Vertical	PK

Mode:			802.11 ax(HE20) Transmitting			Channel:		5180MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1421.8922	1.47	38.67	40.14	68.20	28.06	PASS	Horizontal	PK
2	2072.0572	4.93	37.93	42.86	68.20	25.34	PASS	Horizontal	PK
3	3341.5842	7.47	36.94	44.41	68.20	23.79	PASS	Horizontal	PK
4	7571.2786	-10.75	49.67	38.92	68.20	29.28	PASS	Horizontal	PK
5	10709.2105	-6.17	48.39	42.22	68.20	25.98	PASS	Horizontal	PK
6	16999.45	3.02	46.43	49.45	68.20	18.75	PASS	Horizontal	PK
7	1428.4928	1.48	38.51	39.99	68.20	28.21	PASS	Vertical	PK
8	1863.0363	3.90	38.46	42.36	68.20	25.84	PASS	Vertical	PK
9	3173.2673	6.93	37.86	44.79	68.20	23.41	PASS	Vertical	PK
10	7384.3942	-11.45	51.04	39.59	68.20	28.61	PASS	Vertical	PK
11	9240.012	-7.67	49.27	41.60	68.20	26.60	PASS	Vertical	PK
12	17106.4053	1.66	48.05	49.71	68.20	18.49	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5220MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1573.7074	2.22	37.75	39.97	68.20	28.23	PASS	Horizontal	PK
2	2039.604	4.79	38.49	43.28	68.20	24.92	PASS	Horizontal	PK
3	2457.0957	4.83	58.28	63.11	68.20	5.09	PASS	Horizontal	PK
4	8205.5353	-10.88	50.17	39.29	68.20	28.91	PASS	Horizontal	PK
5	12457.2979	-4.16	49.93	45.77	68.20	22.43	PASS	Horizontal	PK
6	17004.6252	2.95	46.50	49.45	68.20	18.75	PASS	Horizontal	PK
7	1876.2376	4.00	37.88	41.88	68.20	26.32	PASS	Vertical	PK
8	2932.8933	6.38	37.97	44.35	68.20	23.85	PASS	Vertical	PK
9	4036.8537	9.49	34.97	44.46	68.20	23.74	PASS	Vertical	PK
10	8804.1402	-9.10	49.10	40.00	68.20	28.20	PASS	Vertical	PK
11	11904.6952	-5.42	50.05	44.63	68.20	23.57	PASS	Vertical	PK
12	17663.6082	4.33	44.58	48.91	68.20	19.29	PASS	Vertical	PK

Mode:			802.11 n(HT20) Transmitting			Channel:		5220MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1981.8482	4.54	37.61	42.15	68.20	26.05	PASS	Horizontal	PK
2	2853.1353	6.11	37.66	43.77	68.20	24.43	PASS	Horizontal	PK
3	4545.6546	11.58	35.11	46.69	68.20	21.51	PASS	Horizontal	PK
4	7399.345	-11.49	51.90	40.41	68.20	27.79	PASS	Horizontal	PK
5	11250.3125	-6.15	49.83	43.68	68.20	24.52	PASS	Horizontal	PK
6	16536.5518	0.74	48.25	48.99	68.20	19.21	PASS	Horizontal	PK
7	1311.8812	1.18	39.52	40.70	68.20	27.50	PASS	Vertical	PK
8	2039.0539	4.78	37.45	42.23	68.20	25.97	PASS	Vertical	PK
9	3391.0891	7.56	37.09	44.65	68.20	23.55	PASS	Vertical	PK
10	7606.3553	-10.57	50.86	40.29	68.20	27.91	PASS	Vertical	PK
11	10255.5128	-6.59	49.60	43.01	68.20	25.19	PASS	Vertical	PK
12	17648.0824	4.07	45.75	49.82	68.20	18.38	PASS	Vertical	PK

Mode:			802.11 ac(VHT20) Transmitting			Channel:		5220MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1251.9252	0.99	40.68	41.67	68.20	26.53	PASS	Horizontal	PK
2	2083.0583	4.98	37.60	42.58	68.20	25.62	PASS	Horizontal	PK
3	3424.0924	7.58	36.87	44.45	68.20	23.75	PASS	Horizontal	PK
4	7372.3186	-11.41	50.76	39.35	68.20	28.85	PASS	Horizontal	PK
5	10436.6468	-6.36	50.17	43.81	68.20	24.39	PASS	Horizontal	PK
6	17121.9311	1.95	47.27	49.22	68.20	18.98	PASS	Horizontal	PK
7	1192.5193	0.81	39.60	40.41	68.20	27.79	PASS	Vertical	PK
8	2078.1078	4.96	37.92	42.88	68.20	25.32	PASS	Vertical	PK
9	3393.8394	7.56	36.69	44.25	68.20	23.95	PASS	Vertical	PK
10	7319.991	-11.25	50.96	39.71	68.20	28.49	PASS	Vertical	PK
11	10264.7132	-6.53	49.05	42.52	68.20	25.68	PASS	Vertical	PK
12	17152.4076	2.52	47.31	49.83	68.20	18.37	PASS	Vertical	PK

Mode:			802.11 ax(HE20) Transmitting			Channel:		5220MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1255.2255	1.01	39.03	40.04	68.20	28.16	PASS	Horizontal	PK
2	2102.3102	5.02	37.97	42.99	68.20	25.21	PASS	Horizontal	PK
3	3208.4708	7.00	37.09	44.09	68.20	24.11	PASS	Horizontal	PK
4	7543.1022	-10.96	50.69	39.73	68.20	28.47	PASS	Horizontal	PK
5	11251.4626	-6.16	49.37	43.21	68.20	24.99	PASS	Horizontal	PK
6	17109.8555	1.72	47.56	49.28	68.20	18.92	PASS	Horizontal	PK
7	1834.4334	3.67	37.82	41.49	68.20	26.71	PASS	Vertical	PK
8	3188.1188	6.96	38.44	45.40	68.20	22.80	PASS	Vertical	PK
9	4508.2508	11.45	34.81	46.26	68.20	21.94	PASS	Vertical	PK
10	9625.2813	-7.39	49.72	42.33	68.20	25.87	PASS	Vertical	PK
11	13934.5467	-1.10	46.04	44.94	68.20	23.26	PASS	Vertical	PK
12	17120.206	1.92	47.33	49.25	68.20	18.95	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5240MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1426.8427	1.48	38.54	40.02	68.20	28.18	PASS	Horizontal	PK
2	2092.4092	5.02	37.86	42.88	68.20	25.32	PASS	Horizontal	PK
3	3047.8548	6.67	37.58	44.25	68.20	23.95	PASS	Horizontal	PK
4	7368.8684	-11.40	50.66	39.26	68.20	28.94	PASS	Horizontal	PK
5	9269.3385	-7.62	48.77	41.15	68.20	27.05	PASS	Horizontal	PK
6	17002.9001	2.97	46.62	49.59	68.20	18.61	PASS	Horizontal	PK
7	1439.4939	1.50	39.25	40.75	68.20	27.45	PASS	Vertical	PK
8	1922.4422	4.29	38.49	42.78	68.20	25.42	PASS	Vertical	PK
9	3084.1584	6.77	37.59	44.36	68.20	23.84	PASS	Vertical	PK
10	7341.2671	-11.32	50.61	39.29	68.20	28.91	PASS	Vertical	PK
11	9827.1164	-7.12	48.63	41.51	68.20	26.69	PASS	Vertical	PK
12	17009.2255	2.88	46.65	49.53	68.20	18.67	PASS	Vertical	PK

Mode:			802.11 n(HT20) Transmitting			Channel:		5240MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1260.176	1.02	38.67	39.69	68.20	28.51	PASS	Horizontal	PK
2	2065.4565	4.90	38.22	43.12	68.20	25.08	PASS	Horizontal	PK
3	3342.1342	7.47	36.61	44.08	68.20	24.12	PASS	Horizontal	PK
4	7407.9704	-11.47	50.88	39.41	68.20	28.79	PASS	Horizontal	PK
5	11194.5347	-5.75	49.69	43.94	68.20	24.26	PASS	Horizontal	PK
6	17104.6802	1.62	47.28	48.90	68.20	19.30	PASS	Horizontal	PK
7	1267.8768	1.05	38.70	39.75	68.20	28.45	PASS	Vertical	PK
8	2007.1507	4.65	38.17	42.82	68.20	25.38	PASS	Vertical	PK
9	3317.3817	7.42	36.74	44.16	68.20	24.04	PASS	Vertical	PK
10	7594.8547	-10.57	50.03	39.46	68.20	28.74	PASS	Vertical	PK
11	9602.8551	-7.34	48.51	41.17	68.20	27.03	PASS	Vertical	PK
12	17652.1076	4.14	45.58	49.72	68.20	18.48	PASS	Vertical	PK

Mode:			802.11 ac(VHT20) Transmitting			Channel:		5240MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1279.978	1.08	38.90	39.98	68.20	28.22	PASS	Horizontal	PK
2	2014.8515	4.68	38.37	43.05	68.20	25.15	PASS	Horizontal	PK
3	3389.989	7.56	36.50	44.06	68.20	24.14	PASS	Horizontal	PK
4	7336.0918	-11.29	50.89	39.60	68.20	28.60	PASS	Horizontal	PK
5	10377.9939	-6.26	48.39	42.13	68.20	26.07	PASS	Horizontal	PK
6	16533.6767	0.72	49.11	49.83	68.20	18.37	PASS	Horizontal	PK
7	1403.7404	1.44	38.86	40.30	68.20	27.90	PASS	Vertical	PK
8	2093.5094	5.02	37.55	42.57	68.20	25.63	PASS	Vertical	PK
9	3452.1452	7.60	36.91	44.51	68.20	23.69	PASS	Vertical	PK
10	7547.7024	-10.92	51.04	40.12	68.20	28.08	PASS	Vertical	PK
11	11955.8728	-5.10	49.01	43.91	68.20	24.29	PASS	Vertical	PK
12	17029.9265	2.58	46.54	49.12	68.20	19.08	PASS	Vertical	PK

Mode:			802.11ax(HE20) Transmitting			Channel:		5240MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1337.7338	1.26	39.38	40.64	68.20	27.56	PASS	Horizontal	PK
2	1956.5457	4.43	38.96	43.39	68.20	24.81	PASS	Horizontal	PK
3	3189.769	6.96	37.22	44.18	68.20	24.02	PASS	Horizontal	PK
4	7438.4469	-11.41	51.98	40.57	68.20	27.63	PASS	Horizontal	PK
5	9816.1908	-7.14	49.01	41.87	68.20	26.33	PASS	Horizontal	PK
6	14460.123	-0.24	46.22	45.98	68.20	22.22	PASS	Horizontal	PK
7	1339.934	1.27	38.94	40.21	68.20	27.99	PASS	Vertical	PK
8	2052.2552	4.84	38.12	42.96	68.20	25.24	PASS	Vertical	PK
9	3452.6953	7.60	36.13	43.73	68.20	24.47	PASS	Vertical	PK
10	7348.1674	-11.33	50.61	39.28	68.20	28.92	PASS	Vertical	PK
11	9743.1622	-7.39	48.73	41.34	68.20	26.86	PASS	Vertical	PK
12	17032.8016	2.53	46.37	48.90	68.20	19.30	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5190MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1267.3267	1.04	39.47	40.51	68.20	27.69	PASS	Horizontal	PK
2	2102.8603	5.01	37.99	43.00	68.20	25.20	PASS	Horizontal	PK
3	3200.7701	6.97	37.14	44.11	68.20	24.09	PASS	Horizontal	PK
4	7582.7791	-10.66	49.66	39.00	68.20	29.20	PASS	Horizontal	PK
5	10281.3891	-6.40	49.26	42.86	68.20	25.34	PASS	Horizontal	PK
6	17090.8795	1.67	47.46	49.13	68.20	19.07	PASS	Horizontal	PK
7	1277.7778	1.08	39.66	40.74	68.20	27.46	PASS	Vertical	PK
8	2102.8603	5.01	37.79	42.80	68.20	25.40	PASS	Vertical	PK
9	3334.9835	7.45	36.96	44.41	68.20	23.79	PASS	Vertical	PK
10	7382.0941	-11.44	50.70	39.26	68.20	28.94	PASS	Vertical	PK
11	10813.8657	-6.22	49.74	43.52	68.20	24.68	PASS	Vertical	PK
12	16590.0295	1.25	48.76	50.01	68.20	18.19	PASS	Vertical	PK

Mode:			802.11 ac(VHT40) Transmitting			Channel:		5190MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1370.187	1.35	39.76	41.11	68.20	27.09	PASS	Horizontal	PK
2	2092.9593	5.02	37.58	42.60	68.20	25.60	PASS	Horizontal	PK
3	3204.0704	6.99	37.45	44.44	68.20	23.76	PASS	Horizontal	PK
4	7555.1778	-10.86	49.72	38.86	68.20	29.34	PASS	Horizontal	PK
5	10244.0122	-6.69	48.58	41.89	68.20	26.31	PASS	Horizontal	PK
6	17024.7512	2.65	45.89	48.54	68.20	19.66	PASS	Horizontal	PK
7	1279.978	1.08	39.95	41.03	68.20	27.17	PASS	Vertical	PK
8	2100.11	5.05	37.57	42.62	68.20	25.58	PASS	Vertical	PK
9	3047.3047	6.67	37.92	44.59	68.20	23.61	PASS	Vertical	PK
10	7571.2786	-10.75	50.13	39.38	68.20	28.82	PASS	Vertical	PK
11	10790.8645	-6.18	48.56	42.38	68.20	25.82	PASS	Vertical	PK
12	17111.0056	1.74	47.43	49.17	68.20	19.03	PASS	Vertical	PK

Mode:			802.11 ax(HE40) Transmitting			Channel:		5190MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1314.6315	1.19	38.49	39.68	68.20	28.52	PASS	Horizontal	PK
2	2029.703	4.75	37.98	42.73	68.20	25.47	PASS	Horizontal	PK
3	3316.8317	7.42	36.72	44.14	68.20	24.06	PASS	Horizontal	PK
4	7265.9383	-11.39	51.35	39.96	68.20	28.24	PASS	Horizontal	PK
5	9219.311	-7.69	48.77	41.08	68.20	27.12	PASS	Horizontal	PK
6	16985.0743	2.96	46.53	49.49	68.20	18.71	PASS	Horizontal	PK
7	1520.352	1.75	39.24	40.99	68.20	27.21	PASS	Vertical	PK
8	2015.4015	4.68	38.02	42.70	68.20	25.50	PASS	Vertical	PK
9	3218.3718	7.05	38.07	45.12	68.20	23.08	PASS	Vertical	PK
10	7616.7058	-10.64	50.33	39.69	68.20	28.51	PASS	Vertical	PK
11	10934.6217	-6.21	48.86	42.65	68.20	25.55	PASS	Vertical	PK
12	17638.8819	3.92	45.41	49.33	68.20	18.87	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5230MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1620.462	2.57	37.61	40.18	68.20	28.02	PASS	Horizontal	PK
2	2064.3564	4.90	38.10	43.00	68.20	25.20	PASS	Horizontal	PK
3	3234.8735	7.11	37.29	44.40	68.20	23.80	PASS	Horizontal	PK
4	7322.2911	-11.26	50.70	39.44	68.20	28.76	PASS	Horizontal	PK
5	11274.4637	-6.36	49.59	43.23	68.20	24.97	PASS	Horizontal	PK
6	17028.7764	2.60	46.91	49.51	68.20	18.69	PASS	Horizontal	PK
7	1398.7899	1.44	38.62	40.06	68.20	28.14	PASS	Vertical	PK
8	1920.7921	4.28	38.74	43.02	68.20	25.18	PASS	Vertical	PK
9	2844.8845	6.07	38.40	44.47	68.20	23.73	PASS	Vertical	PK
10	7395.3198	-11.47	51.53	40.06	68.20	28.14	PASS	Vertical	PK
11	10300.365	-6.25	49.53	43.28	68.20	24.92	PASS	Vertical	PK
12	17029.3515	2.59	46.56	49.15	68.20	19.05	PASS	Vertical	PK

Mode:			802.11 ac(VHT40) Transmitting			Channel:		5230MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1403.7404	1.44	38.35	39.79	68.20	28.41	PASS	Horizontal	PK
2	2040.154	4.80	38.19	42.99	68.20	25.21	PASS	Horizontal	PK
3	3367.4367	7.51	37.14	44.65	68.20	23.55	PASS	Horizontal	PK
4	7321.7161	-11.26	50.71	39.45	68.20	28.75	PASS	Horizontal	PK
5	9720.736	-7.49	49.85	42.36	68.20	25.84	PASS	Horizontal	PK
6	17068.4534	2.01	47.58	49.59	68.20	18.61	PASS	Horizontal	PK
7	1420.7921	1.47	39.06	40.53	68.20	27.67	PASS	Vertical	PK
8	1985.6986	4.56	38.06	42.62	68.20	25.58	PASS	Vertical	PK
9	3375.6876	7.53	36.91	44.44	68.20	23.76	PASS	Vertical	PK
10	9276.2388	-7.62	48.94	41.32	68.20	26.88	PASS	Vertical	PK
11	12457.2979	-4.16	48.93	44.77	68.20	23.43	PASS	Vertical	PK
12	17017.8509	2.76	46.18	48.94	68.20	19.26	PASS	Vertical	PK

Mode:			802.11 ax(HE40) Transmitting			Channel:		5230MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1132.0132	0.72	39.66	40.38	68.20	27.82	PASS	Horizontal	PK
2	2027.5028	4.74	38.27	43.01	68.20	25.19	PASS	Horizontal	PK
3	3051.1551	6.68	38.61	45.29	68.20	22.91	PASS	Horizontal	PK
4	7605.2053	-10.56	49.44	38.88	68.20	29.32	PASS	Horizontal	PK
5	9669.5585	-7.49	48.67	41.18	68.20	27.02	PASS	Horizontal	PK
6	11936.3218	-5.22	50.44	45.22	68.20	22.98	PASS	Horizontal	PK
7	1333.3333	1.24	39.41	40.65	68.20	27.55	PASS	Vertical	PK
8	1950.495	4.40	37.85	42.25	68.20	25.95	PASS	Vertical	PK
9	3176.0176	6.93	37.99	44.92	68.20	23.28	PASS	Vertical	PK
10	7525.8513	-11.09	50.82	39.73	68.20	28.47	PASS	Vertical	PK
11	10616.0558	-6.40	48.71	42.31	68.20	25.89	PASS	Vertical	PK
12	16997.7249	3.01	46.10	49.11	68.20	19.09	PASS	Vertical	PK

Mode:		CO-LOCATED		Channel:		2462MHz(ANT A)+5260MHz(ANT B)+ 2462MHz(ANT C)+5240MHz(ANT D)			
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1283.8284	1.09	39.34	40.43	68.20	27.77	PASS	Horizontal	PK
2	2582.5083	5.14	37.65	42.79	68.20	25.41	PASS	Horizontal	PK
3	3051.1551	6.68	38.61	45.29	68.20	22.91	PASS	Horizontal	PK
4	8860.493	-9.21	49.50	40.29	68.20	27.91	PASS	Horizontal	PK
5	11437.7719	-6.07	49.98	43.91	68.20	24.29	PASS	Horizontal	PK
6	15370.3935	-0.77	47.41	46.64	68.20	21.56	PASS	Horizontal	PK
7	1262.9263	1.02	39.14	40.16	68.20	28.04	PASS	Vertical	PK
8	2078.6579	4.96	36.72	41.68	68.20	26.52	PASS	Vertical	PK
9	3176.0176	6.93	37.49	44.42	68.20	23.78	PASS	Vertical	PK
10	9605.1553	-7.34	48.34	41.00	68.20	27.20	PASS	Vertical	PK
11	10616.0558	-6.40	49.21	42.81	68.20	25.39	PASS	Vertical	PK
12	14400.32	0.64	43.83	44.47	68.20	23.73	PASS	Vertical	PK

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 40GHz, 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.Only the worst case data was recorded in the report.

7.8 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) $EIRP = ((E \cdot d)^2) / 30$ 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: $EIRP[dBm] = E[dB\mu V/m] - 95.2$
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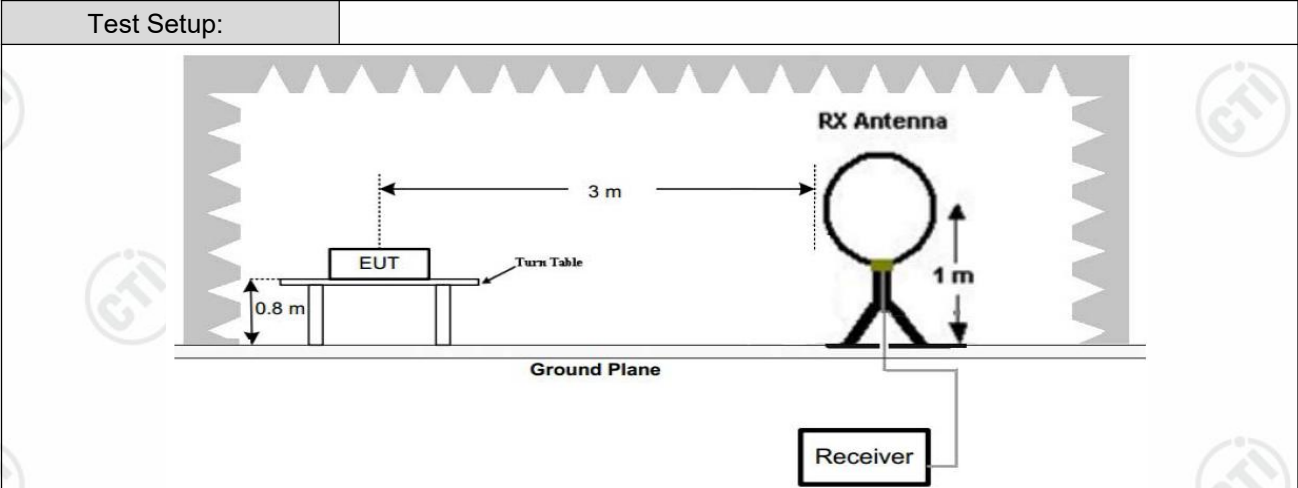


Figure 1. Below 30MHz

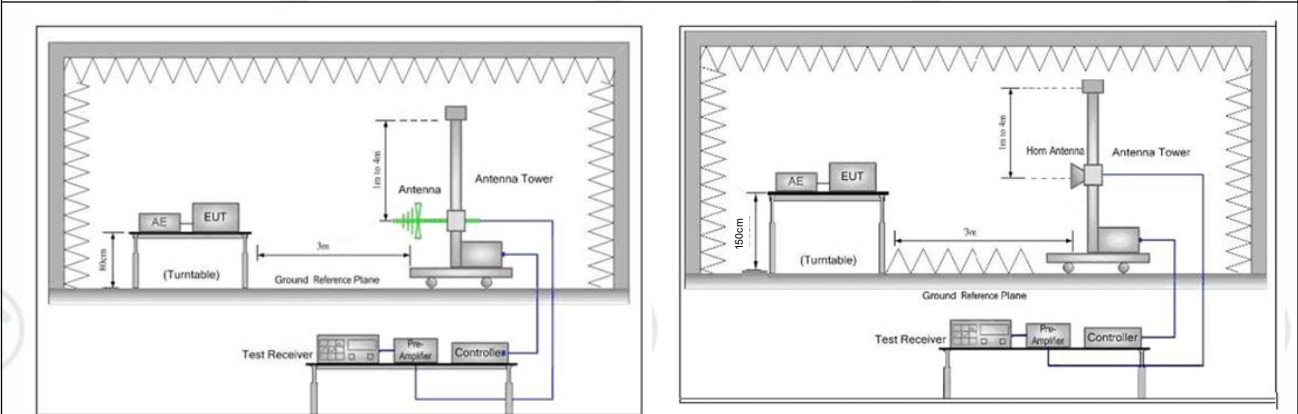


Figure 2. 30MHz to 1GHz

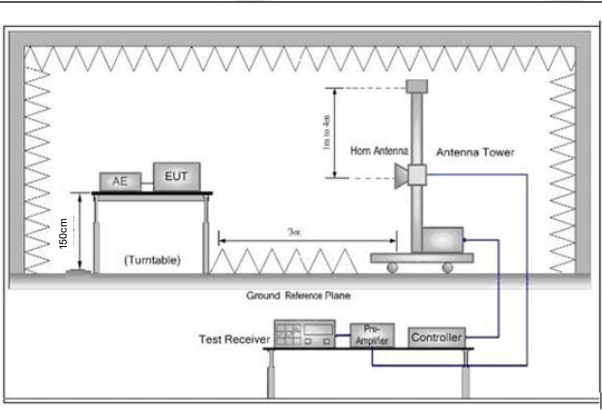


Figure 3. Above 1 GHz

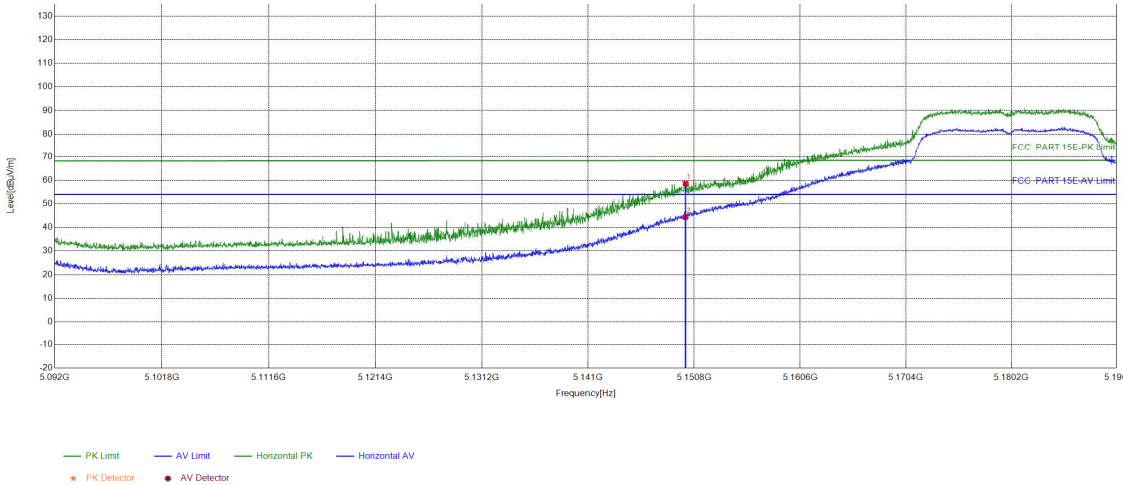
Test Procedure:	j. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
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	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:

EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5180MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/20
Remark			

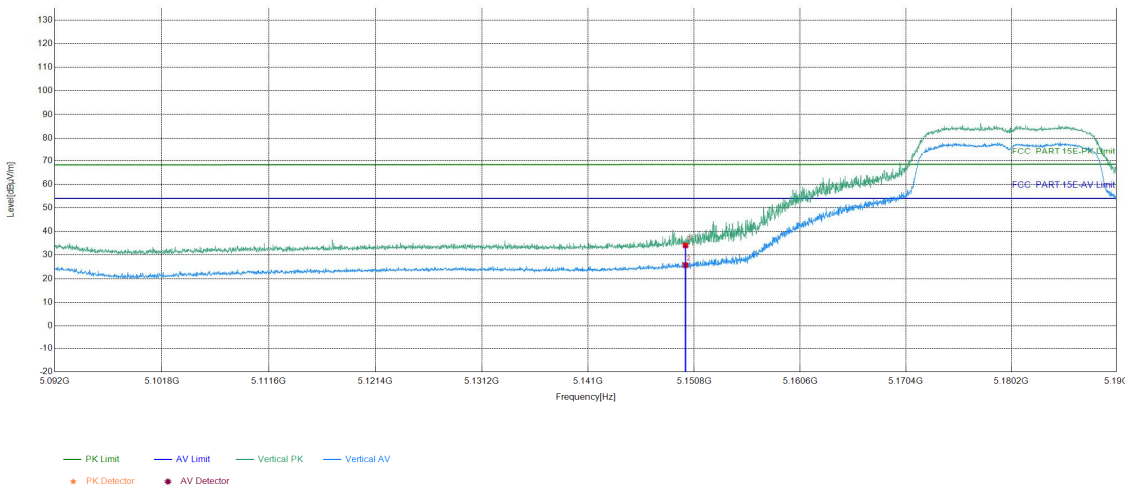
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-15.08	73.67	58.59	68.38	9.79	PASS	Horizontal	PK
2	5150	-15.08	59.53	44.45	54.00	9.55	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5180MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/20
Remark			

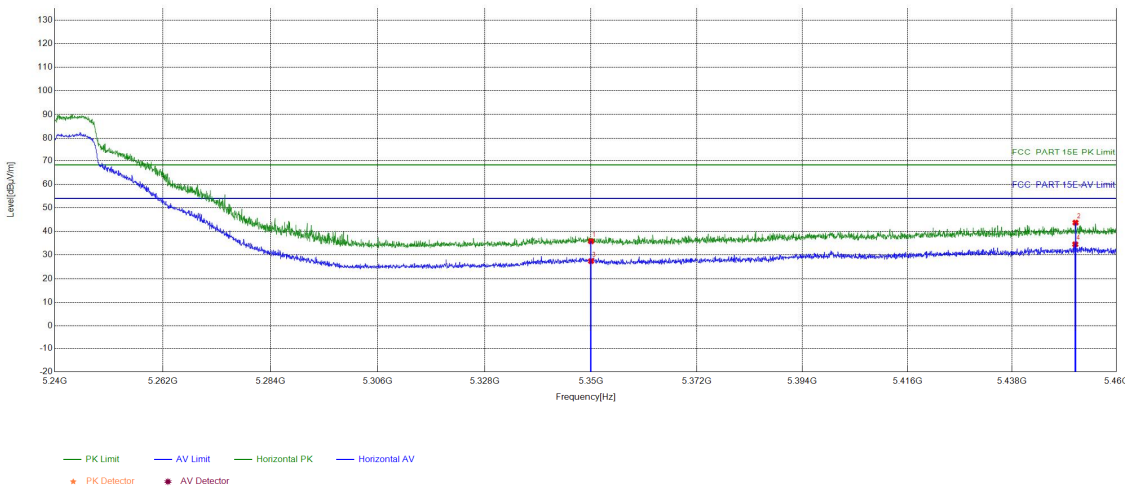
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-15.08	49.19	34.11	68.38	34.27	PASS	Vertical	PK
2	5150	-15.08	40.80	25.72	54.00	28.28	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5240MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/20
Remark			

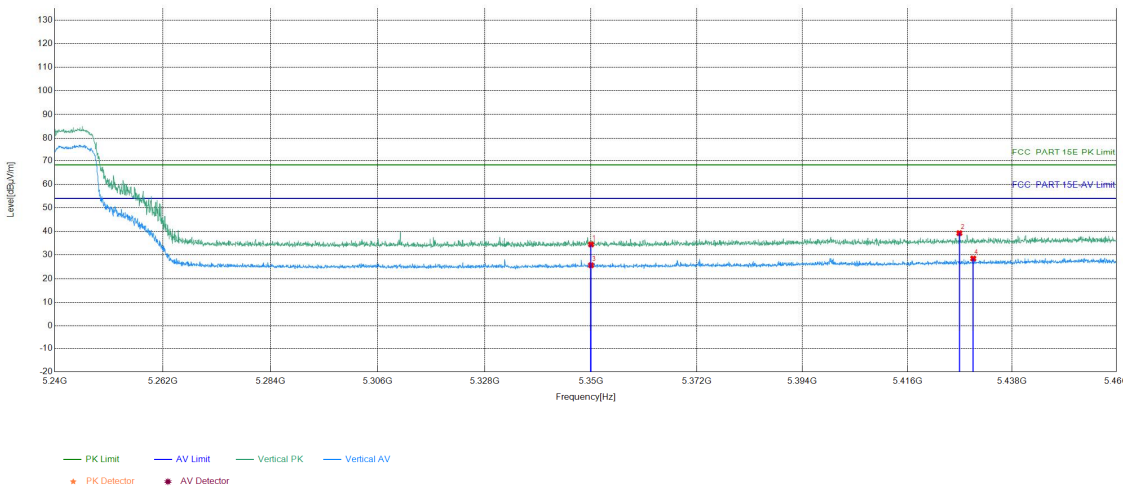
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	-14.67	50.53	35.86	68.20	32.34	PASS	Horizontal	PK
2	5451.3628	-14.53	58.26	43.73	68.20	24.47	PASS	Horizontal	PK
3	5350	-14.67	42.12	27.45	54.00	26.55	PASS	Horizontal	AV
4	5451.3078	-14.53	49.07	34.54	54.00	19.46	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5240MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/20
Remark			

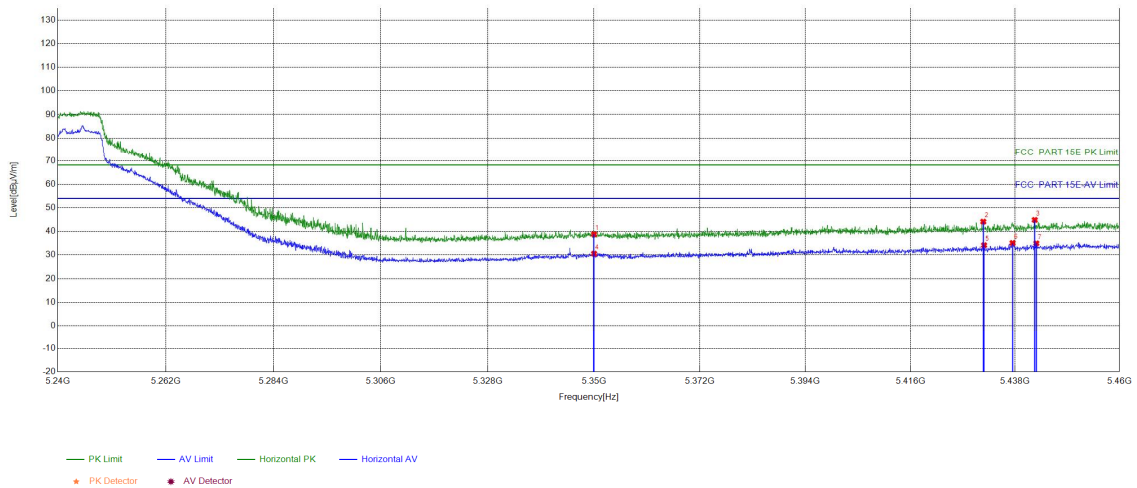
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	-14.67	49.16	34.49	68.20	33.71	PASS	Vertical	PK
2	5426.8817	-14.53	53.81	39.28	68.20	28.92	PASS	Vertical	PK
3	5350	-14.67	40.34	25.67	54.00	28.33	PASS	Vertical	AV
4	5429.7974	-14.53	43.06	28.53	54.00	25.47	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5240MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/20
Remark			

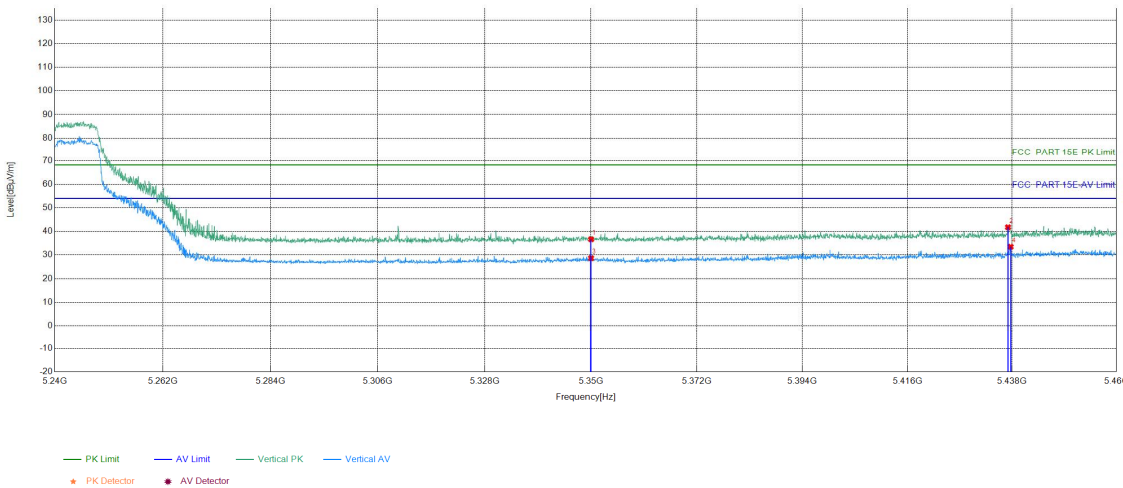
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	-14.67	53.50	38.83	68.20	29.37	PASS	Horizontal	PK
2	5431.2828	-14.53	58.68	44.15	68.20	24.05	PASS	Horizontal	PK
3	5442.1205	-14.53	59.42	44.89	68.20	23.31	PASS	Horizontal	PK
4	5350	-14.67	45.26	30.59	54.00	23.41	PASS	Horizontal	AV
5	5431.4479	-14.53	48.70	34.17	54.00	19.83	PASS	Horizontal	AV
6	5437.4444	-14.53	49.64	35.11	54.00	18.89	PASS	Horizontal	AV
7	5442.4506	-14.53	49.49	34.96	54.00	19.04	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5240MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/20
Remark			

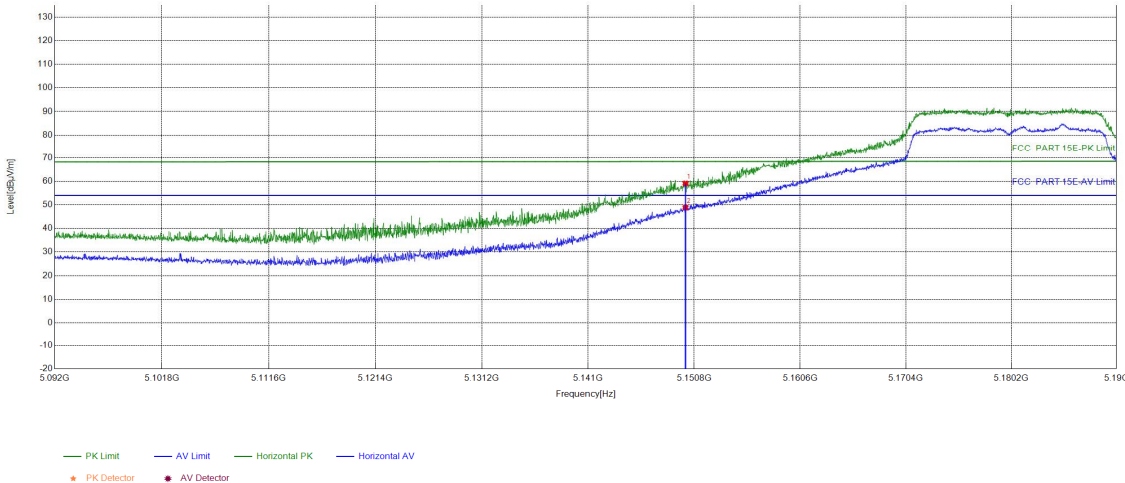
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	-14.67	51.34	36.67	68.20	31.53	PASS	Vertical	PK
2	5437.1143	-14.53	56.31	41.78	68.20	26.42	PASS	Vertical	PK
3	5350	-14.67	43.34	28.67	54.00	25.33	PASS	Vertical	AV
4	5437.6644	-14.53	48.04	33.51	54.00	20.49	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5180MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/20
Remark			

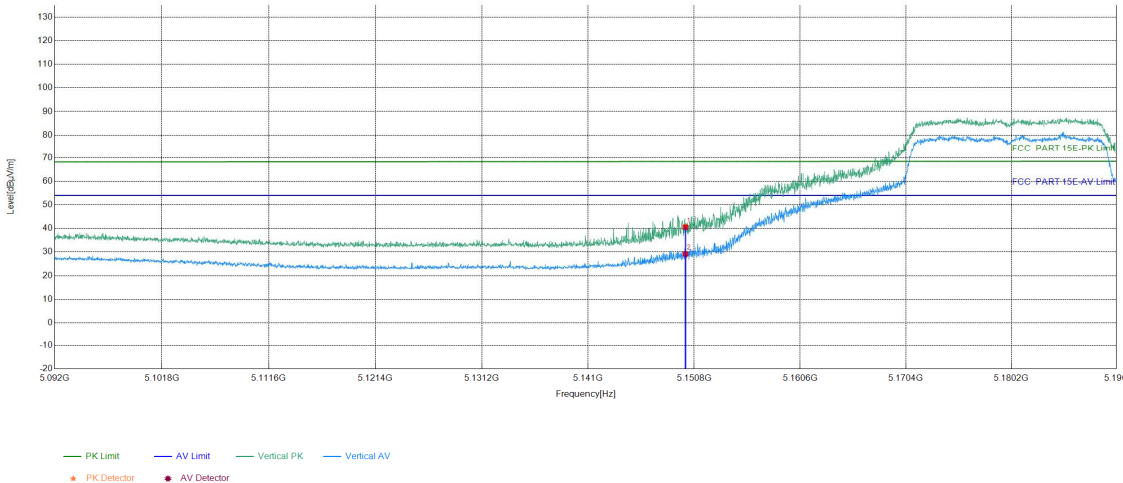
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-15.08	74.16	59.08	68.38	9.30	PASS	Horizontal	PK
2	5150	-15.08	63.95	48.87	54.00	5.13	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5180MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/20
Remark			

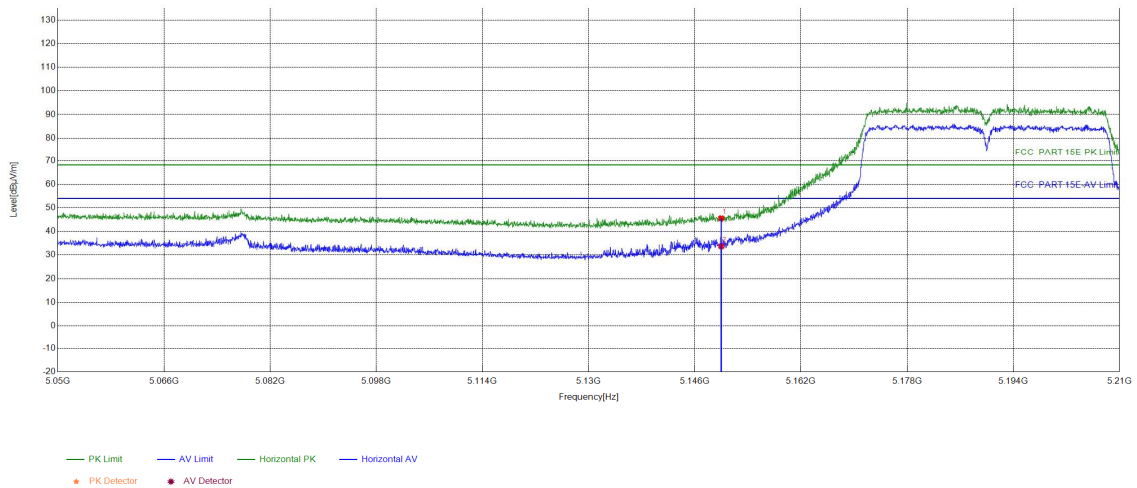
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-15.08	55.65	40.57	68.38	27.81	PASS	Vertical	PK
2	5150	-15.08	44.27	29.19	54.00	24.81	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5190MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/22
Remark			

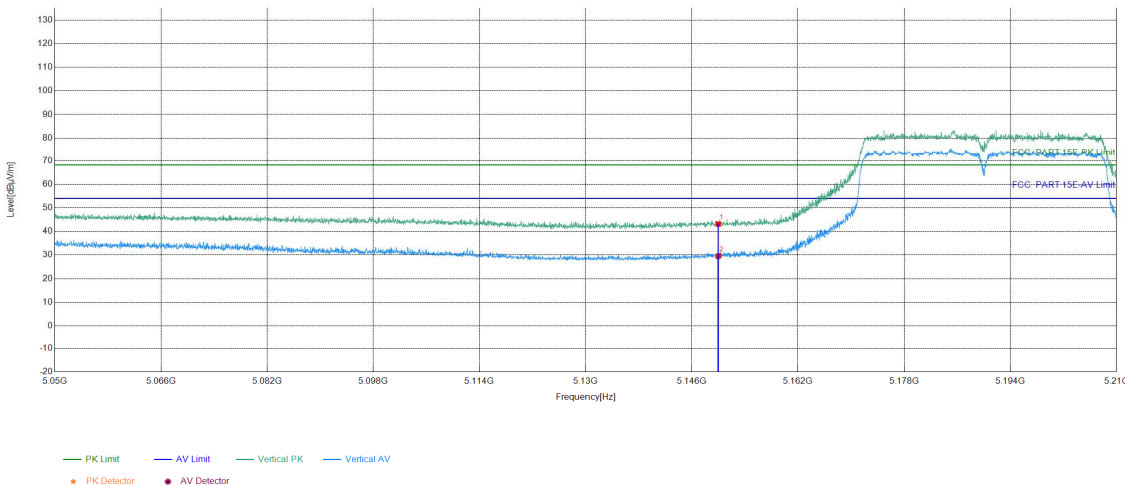
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	12.35	33.24	45.59	68.20	22.61	PASS	Horizontal	PK
2	5150	12.35	21.33	33.68	54.00	20.32	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5190MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/22
Remark			

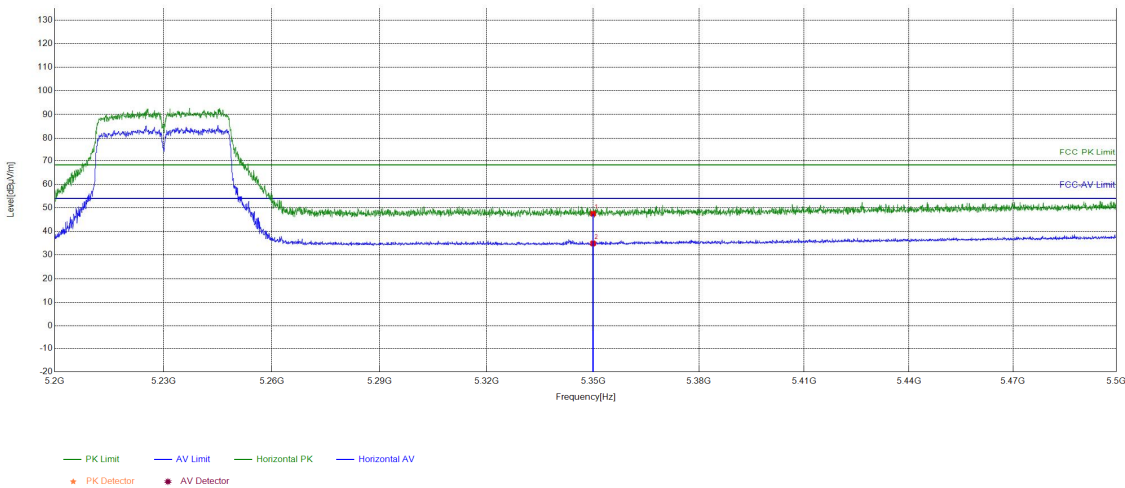
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	12.35	30.82	43.17	68.20	25.03	PASS	Vertical	PK
2	5150	12.35	17.21	29.56	54.00	24.44	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5230MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/22
Remark			

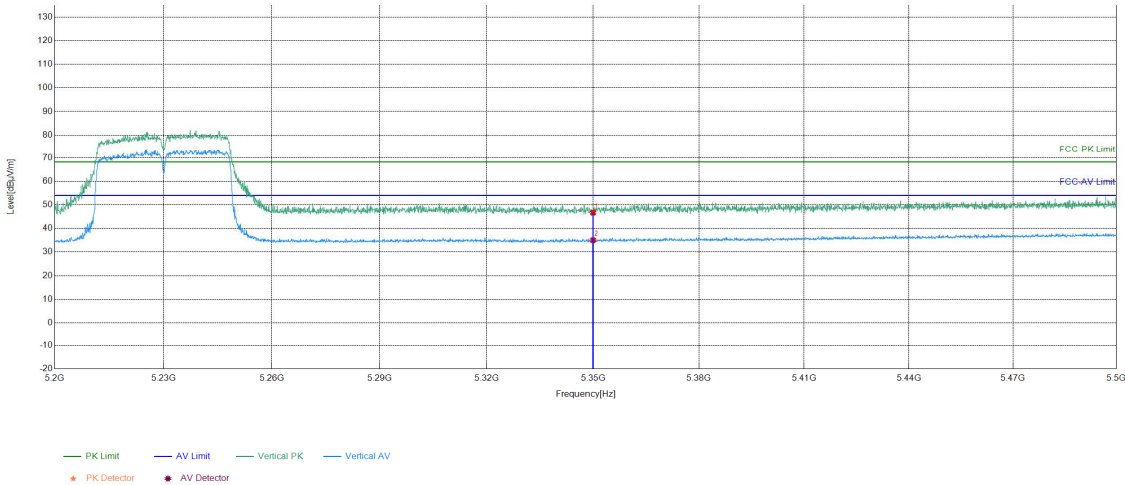
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	12.73	34.79	47.52	68.20	20.68	PASS	Horizontal	PK
2	5350	12.73	22.19	34.92	54.00	19.08	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5230MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/22
Remark			

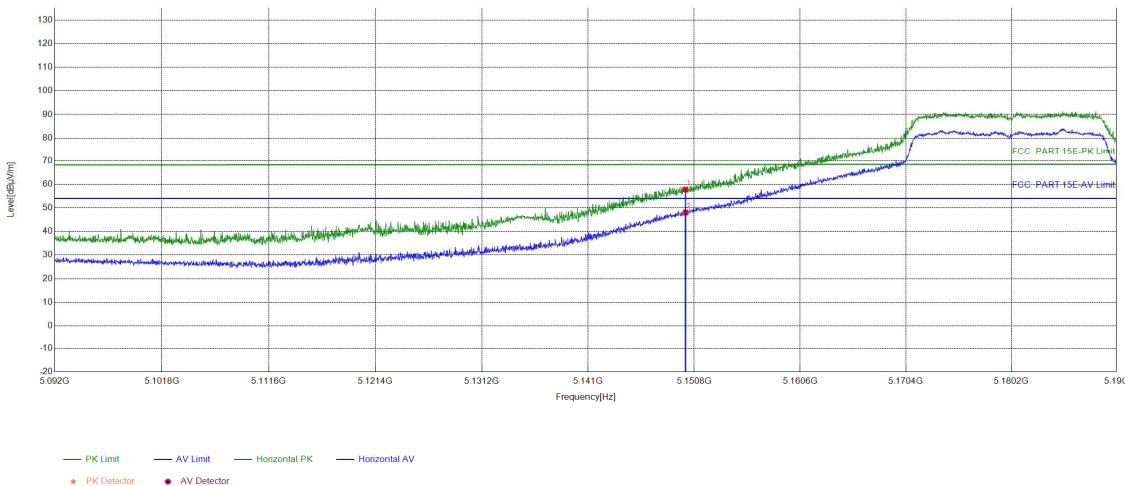
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	12.73	33.97	46.70	68.20	21.50	PASS	Vertical	PK
2	5350	12.73	22.30	35.03	54.00	18.97	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ac(VHT20) Transmitting	Test_Frequency	5180MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/22
Remark			

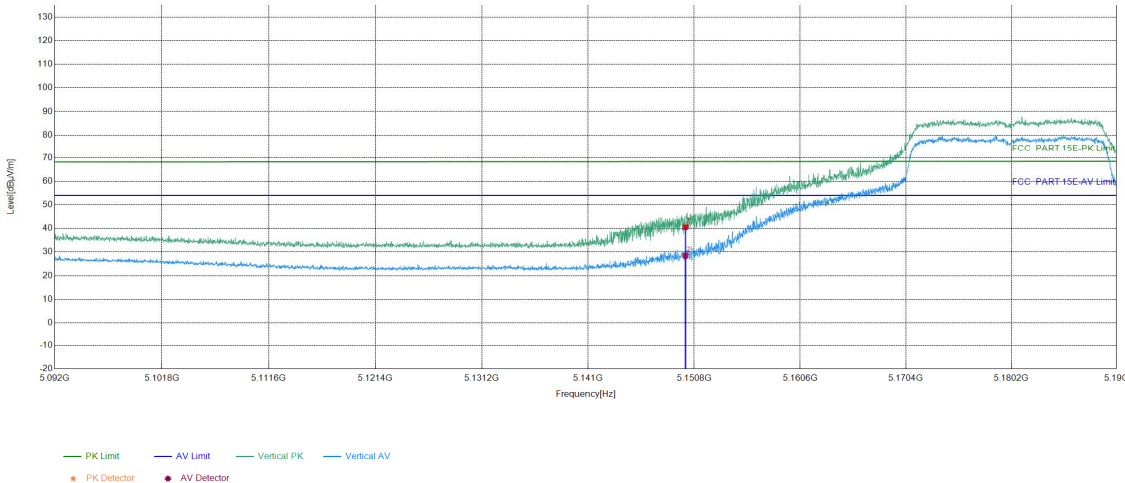
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-15.08	72.90	57.82	68.38	10.56	PASS	Horizontal	PK
2	5150	-15.08	63.11	48.03	54.00	5.97	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ac(VHT20) Transmitting	Test_Frequency	5180MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/22
Remark			

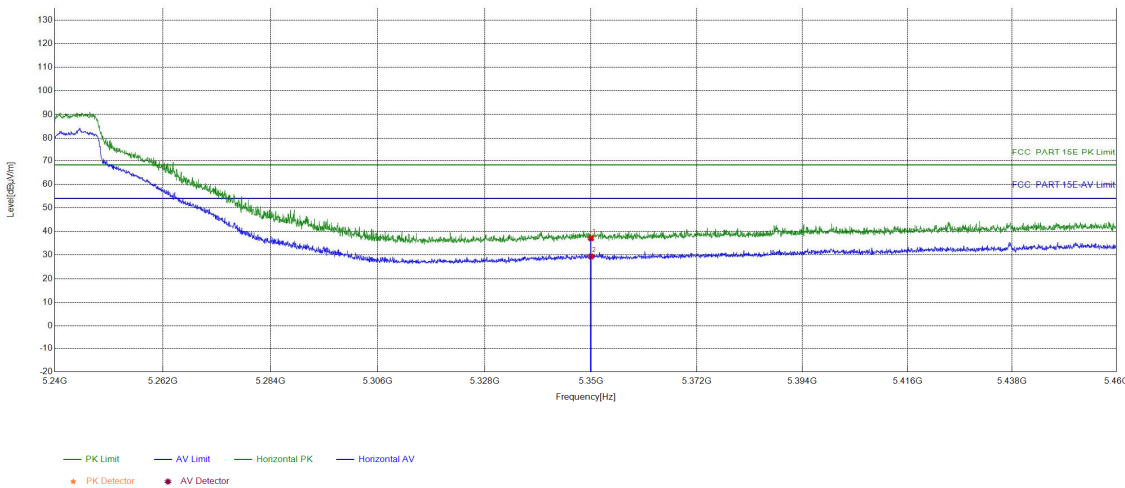
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-15.08	55.66	40.58	68.38	27.80	PASS	Vertical	PK
2	5150	-15.08	43.49	28.41	54.00	25.59	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ac(VHT20) Transmitting	Test_Frequency	5240MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/22
Remark			

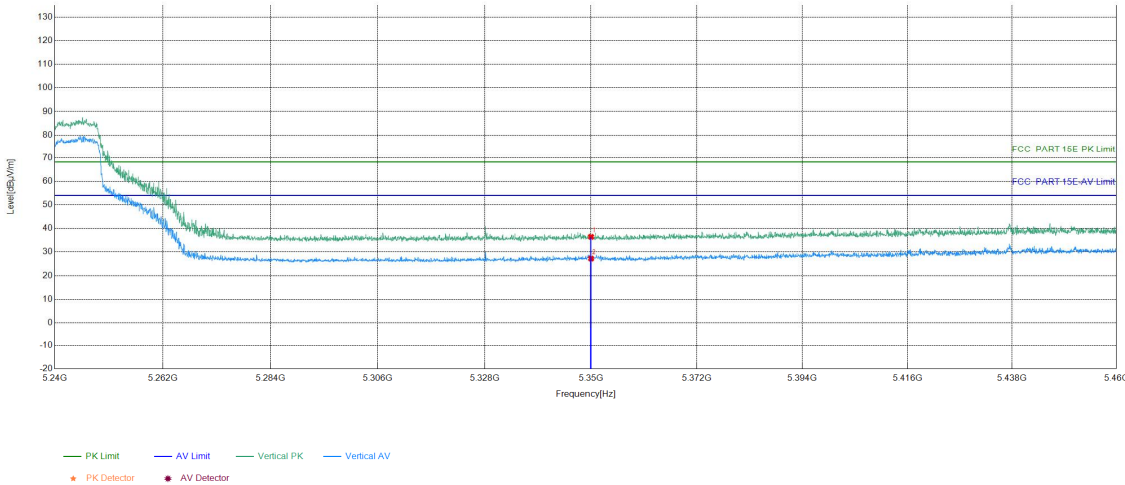
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	-14.67	51.77	37.10	68.20	31.10	PASS	Horizontal	PK
2	5350	-14.67	44.07	29.40	54.00	24.60	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ac(VHT20) Transmitting	Test_Frequency	5240MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/22
Remark			

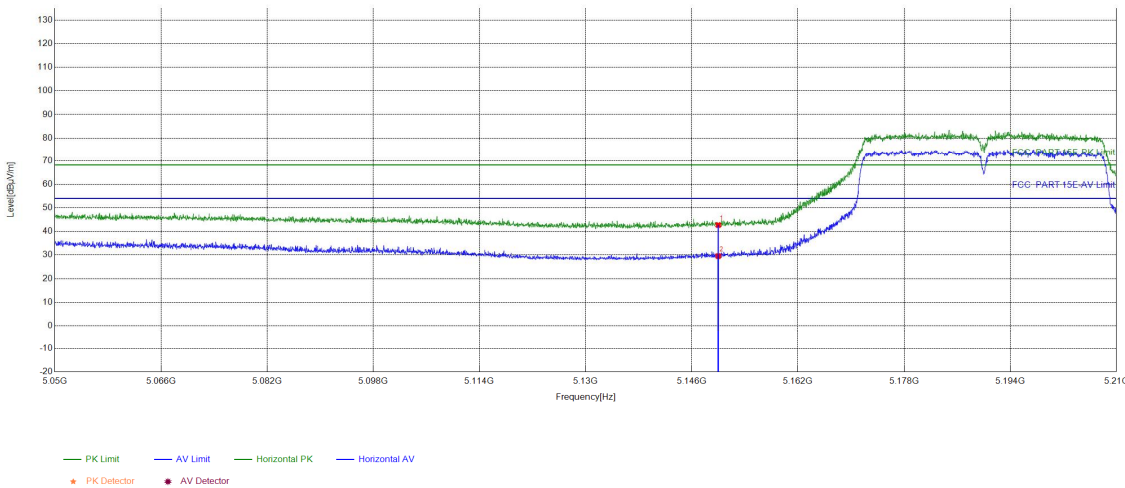
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	-14.67	51.11	36.44	68.20	31.76	PASS	Vertical	PK
2	5350	-14.67	41.90	27.23	54.00	26.77	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ac(VHT40) Transmitting	Test_Frequency	5190MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/22
Remark			

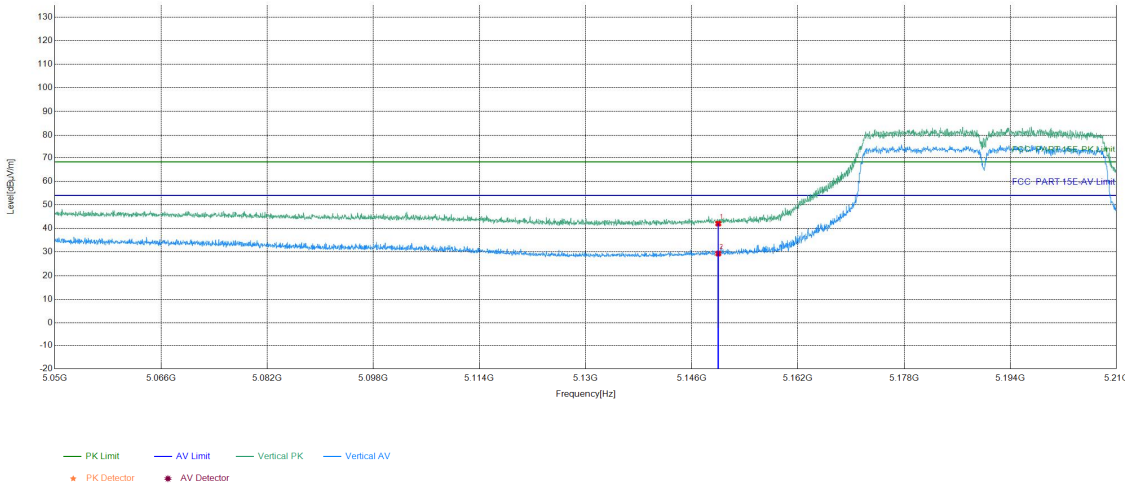
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	12.35	30.36	42.71	68.20	25.49	PASS	Horizontal	PK
2	5150	12.35	17.21	29.56	54.00	24.44	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ac(VHT40) Transmitting	Test_Frequency	5190MHz
Tset_Engineer	yusongwei	Test_Date	2023/05/22
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	29.70	42.05	68.20	26.15	PASS	Vertical	PK
2	5150	12.35	17.01	29.36	54.00	24.64	PASS	Vertical	AV