

TEST REPORT

Product : Smart Projector
Trade mark : TOUMEI
Model/Type reference : See section 4.2
Serial Number : N/A
Report Number : EED32Q81846702
FCC ID : 2BCE6-Q7
Date of Issue : Dec. 30, 2024
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

SHENZHEN TOUMEI TECHNOLOGY CO., LTD
502, Building A, Jinke Industrial Park, No.310, Wuhe Dadao, Luhua
Community Guanhu Street, Longhua District, Shenzhen, China

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:

Keven Tan.

Reviewed by:

Frazer. Li

Approved by:

Aaron Ma

Date:

Dec. 30, 2024

Aaron Ma

Check No.: 9532131124

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2 Version

Version No.	Date	Description
00	Dec. 30, 2024	Original

3 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band edge measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	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.

Model No.: Q7, Q1, Q2, Q3, Q4, Q5, Q6, Q8, Q9, Q10, Q11, Q12, Q5-GTV, Q6-GTV, Q7-GTV, Q8-GTV, Q9-GTV, A1, A2, A3, A5, A6, A7, A8, A9, A10, F1, F2, F3, F5, F6, F7, F8, F9, F10, D1, D2, D3, D5, D6, D7, D8, D9, D10

Only the model Q7 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance, model name and sales platform.

4 General Information

4.1 Client Information

Applicant:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Applicant:	502, Building A, Jinke Industrial Park, No.310, Wuhe Dadao, Luh Community Guanhu Street, Longhua District, Shenzhen, China
Manufacturer:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Manufacturer:	502, Building A, Jinke Industrial Park, No.310, Wuhe Dadao, Luh Community Guanhu Street, Longhua District, Shenzhen, China
Factory:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Factory:	502, Building A, Jinke Industrial Park, No.310, Wuhe Dadao, Luh Community Guanhu Street, Longhua District, Shenzhen, China

4.2 General Description of EUT

Product Name:	Smart Projector	
Model No.:	Q7, Q1, Q2, Q3, Q4, Q5, Q6, Q8, Q9, Q10, Q11, Q12, Q5-GTV, Q6-GTV, Q7-GTV, Q8-GTV, Q9-GTV, A1, A2, A3, A5, A6, A7, A8, A9, A10, F1, F2, F3, F5, F6, F7, F8, F9, F10, D1, D2, D3, D5, D6, D7, D8, D9, D10	
Test Model No.:	Q7	
Trade mark:	TOUMEI	
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location	
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz	
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11ax(HE20 and HE40) : OFDM (1024QAM, 256QAM, 64QAM, 16QAM,QPSK,BPSK)	
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20/ax(HE20): 11 Channels IEEE 802.11n (HT40)/ax(HE40): 7 Channels	
Channel Separation:	5MHz	
Antenna Type:	FPC Antenna	
Antenna Gain:	2.75dBi	
Power Supply:	Adapter	AC 110V
Test Voltage:	AC 110V	
Sample Received Date:	Nov. 29, 2024	
Sample tested Date:	Nov. 29, 2024 to Dec. 17, 2024	

Operation Frequency each of channel (802.11b/g/n HT20/ ax HE20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency each of channel (802.11n HT40/ ax HE40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

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:

802.11b/g/n (HT20)/ax (HE20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The highest channel	2462MHz

802.11n (HT40)/ax (HE40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The highest channel	2452MHz

4.3 Test Configuration

EUT Test Software Settings:	
Test Software:	Adb.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
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
802.11ax(HE20)	MCS0
802.11ax(HE40)	MCS0
According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, MCS0 for 802.11n(HT20) and MCS0 for 802.11n(HT40),MCS0 for 802.11ax(HE20) and MCS0 for 802.11ax(HE40).	

4.4 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:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	HP	DESKTOP-H31GDCQ	FCC&CE	CTI

4.6 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

4.7 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)
		4.3dB (30MHz-1GHz)
		4.5dB (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%

5 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	06-26-2024	06-25-2025
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-02-2024	09-01-2025
Spectrum Analyzer	R&S	FSV40	101200	07-18-2024	07-17-2025
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-25-2024	06-24-2025
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-12-2023 11-30-2024	12-10-2024 11-29-2025
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	V2.0.0.0	---	---
Spectrum Analyzer	R&S	FSV3044	101509	01-17-2024	01-16-2025

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	04-18-2024	04-17-2025
Temperature/ Humidity Indicator	Defu	TH128	/	04-25-2024	04-24-2025
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025
Barometer	changchun	DYM3	1188	---	---
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	---	---
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025
ISN	TESEQ	ISN T800	30297	12/14/2023 12/05/2024	12/13/2024 12/04/2025

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05/22/2022	05/21/2025
Receiver	R&S	ESC17	100938-003	09/07/2024	09/06/2025
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024	04/15/2025
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/14/2023 12/05/2024	12/13/2024 12/04/2025
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/16/2024	04/15/2025
Preamplifier	Agilent	11909A	12-1	03/22/2024	03/21/2025
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---
Cable line	Fulai(7M)	SF106	5219/6A	05/22/2022	05/21/2025
Cable line	Fulai(6M)	SF106	5220/6A	05/22/2022	05/21/2025
Cable line	Fulai(3M)	SF106	5216/6A	05/22/2022	05/21/2025
Cable line	Fulai(3M)	SF106	5217/6A	05/22/2022	05/21/2025

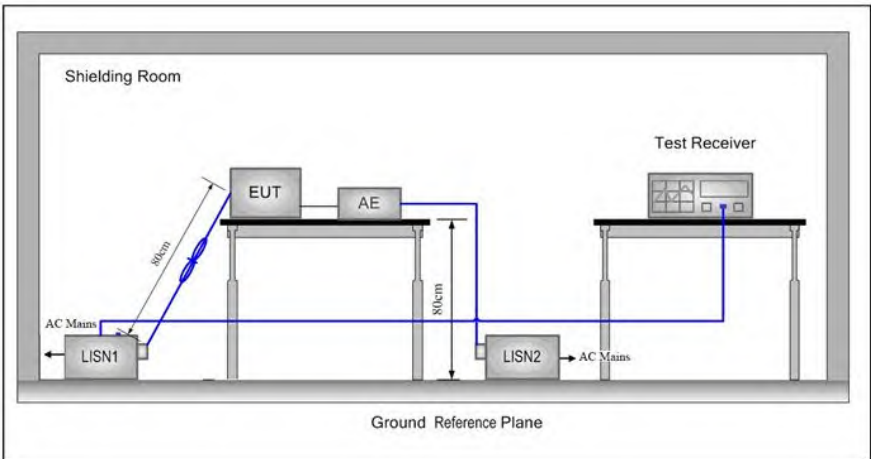
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-29-2024	01-28-2025
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-23-2024	01-22-2025
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023 12-05-2024	12-13-2024 12-04-2025
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-09-2024	01-08-2027
Cable line	Times	EMC104-NMNM-1000	SN160710	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-09-2024	01-08-2027
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-09-2024	01-08-2027

6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<p>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.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
EUT Antenna:	Please see Internal photos
The antenna is FPC antenna. The best case gain of the antenna is 2.75dBi.	

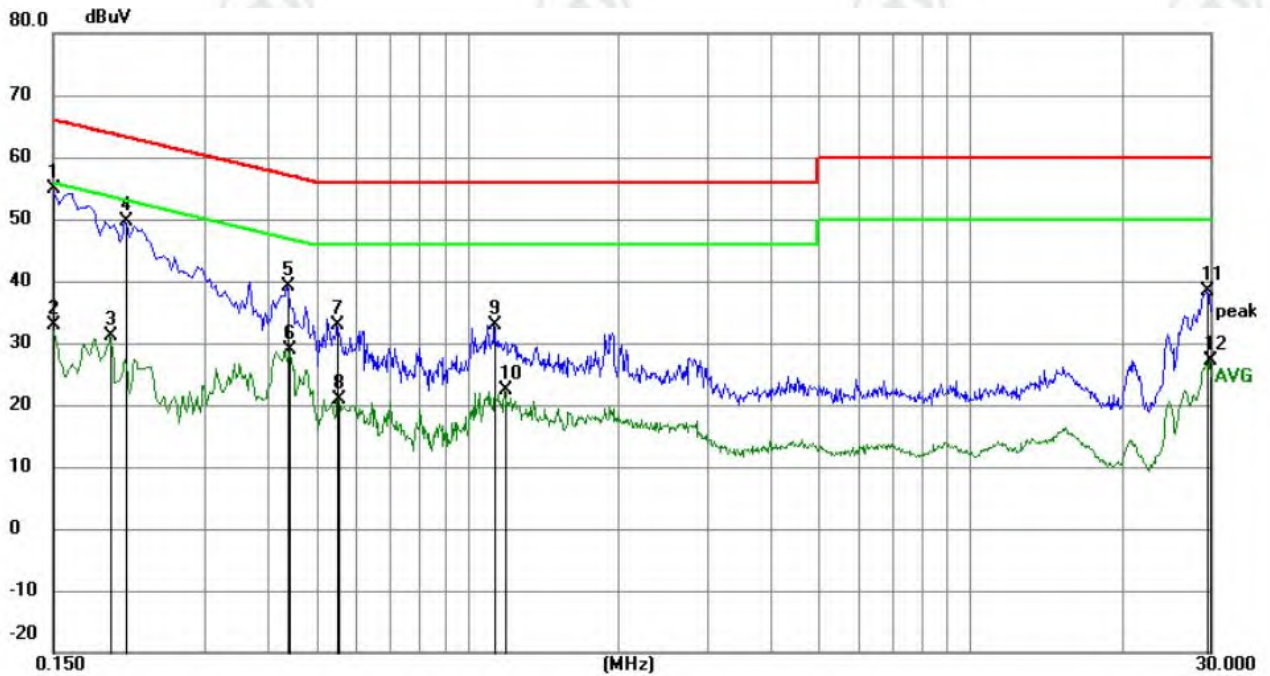
6.2 AC Power Line Conducted Emissions

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:	<ol style="list-style-type: none"> 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 50Ω/50μH + 5Ω 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 worse case lowest channel of 1Mbps for 802.11b was recorded in the report.		

Test Results: Pass

Measurement Data

Live line:

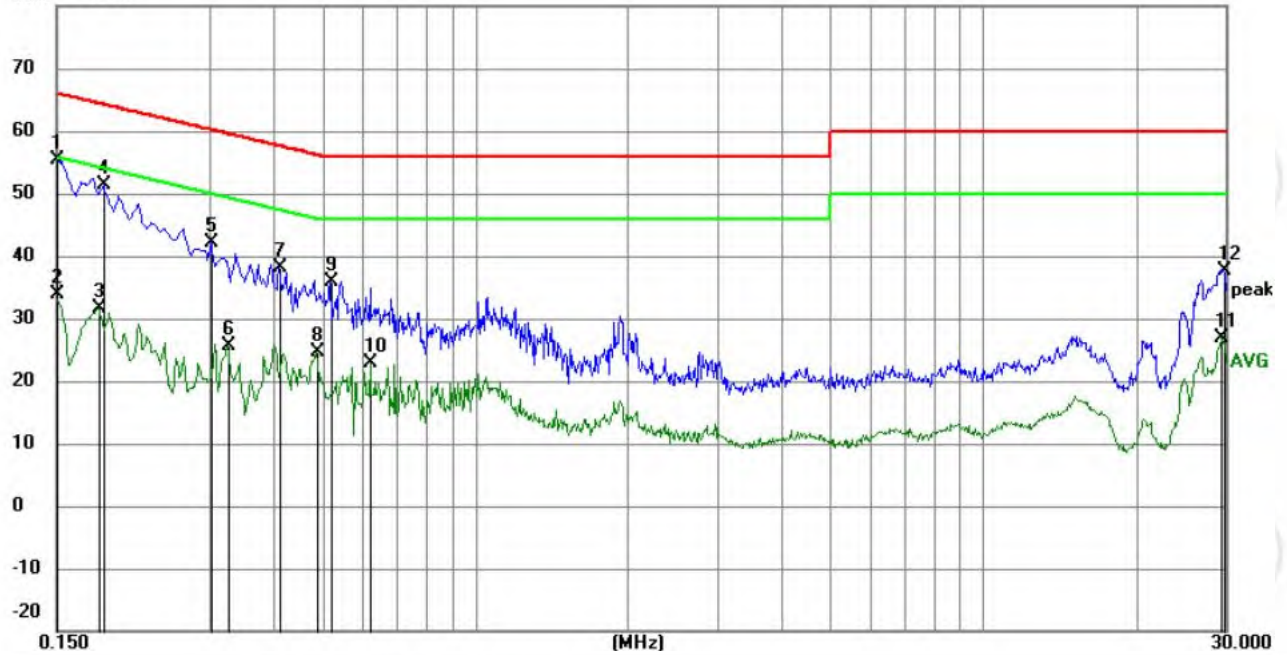


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	44.64	10.28	54.92	66.00	-11.08	QP	
2		0.1500	22.52	10.28	32.80	56.00	-23.20	AVG	
3		0.1949	20.90	10.22	31.12	53.83	-22.71	AVG	
4		0.2085	39.46	10.20	49.66	63.26	-13.60	QP	
5		0.4380	28.94	10.09	39.03	57.10	-18.07	QP	
6		0.4425	18.75	10.09	28.84	47.01	-18.17	AVG	
7		0.5505	22.73	10.09	32.82	56.00	-23.18	QP	
8		0.5550	10.83	10.09	20.92	46.00	-25.08	AVG	
9		1.1310	22.65	10.18	32.83	56.00	-23.17	QP	
10		1.1895	12.28	10.18	22.46	46.00	-23.54	AVG	
11		29.5710	28.46	9.82	38.28	60.00	-21.72	QP	
12		29.8905	17.24	9.82	27.06	50.00	-22.94	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:
80.0 dBuV

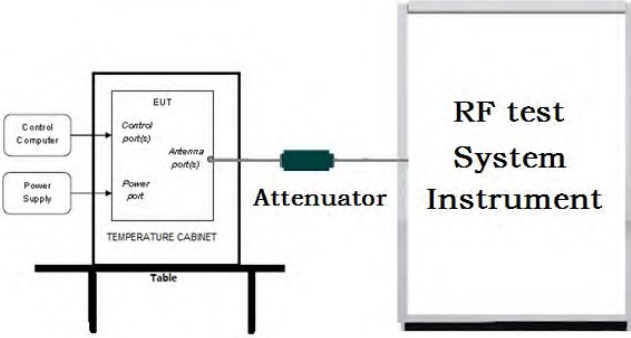


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	45.07	10.28	55.35	66.00	-10.65	QP	
2		0.1500	23.51	10.28	33.79	56.00	-22.21	AVG	
3		0.1815	21.36	10.24	31.60	54.42	-22.82	AVG	
4		0.1860	41.06	10.23	51.29	64.21	-12.92	QP	
5		0.3030	31.89	10.13	42.02	60.16	-18.14	QP	
6		0.3255	15.58	10.12	25.70	49.57	-23.87	AVG	
7		0.4110	27.93	10.09	38.02	57.63	-19.61	QP	
8		0.4875	14.53	10.08	24.61	46.21	-21.60	AVG	
9		0.5190	25.86	10.08	35.94	56.00	-20.06	QP	
10		0.6225	12.71	10.11	22.82	46.00	-23.18	AVG	
11		29.4405	16.97	9.82	26.79	50.00	-23.21	AVG	
12		29.7330	27.93	9.82	37.75	60.00	-22.25	QP	

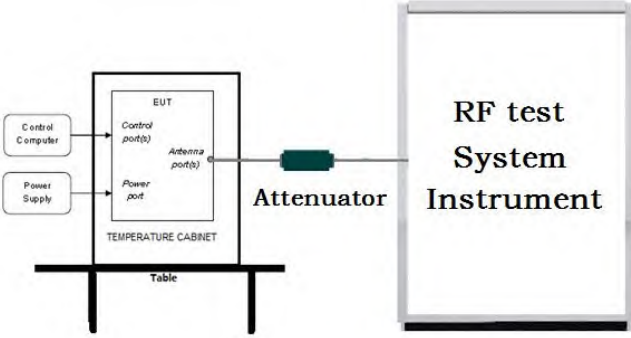
Remark:

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.

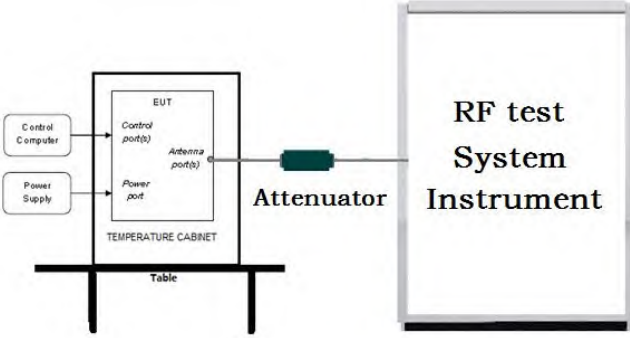
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013
Test Setup:	
Test Procedure:	<p>1. PKPM1 Peak power meter measurement The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.</p> <p>2. Method AVGPM-G Average power measurement Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.</p>
Limit:	30dBm
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G Wi-Fi

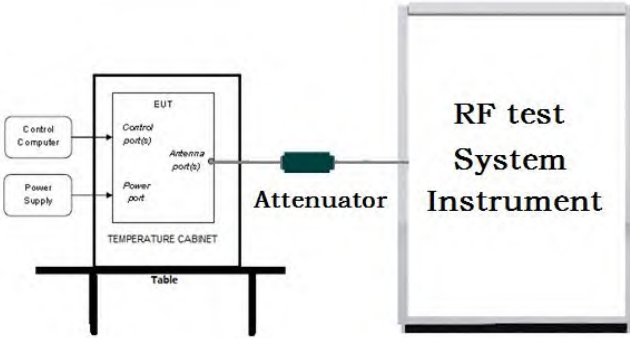
6.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	a) Set RBW = 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Limit:	$\geq 500 \text{ kHz}$
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G Wi-Fi

6.5 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<p>a) Set analyzer center frequency to DTS channel center frequency.</p> <p>b) Set the span to 1.5 times the DTS bandwidth.</p> <p>c) Set the RBW to $3\text{ kHz} < \text{RBW} < 100\text{ kHz}$.</p> <p>d) Set the VBW $> [3 \times \text{RBW}]$.</p> <p>e) Detector = peak.</p> <p>f) Sweep time = auto couple.</p> <p>g) Trace mode = max hold.</p> <p>h) Allow trace to fully stabilize.</p> <p>i) Use the peak marker function to determine the maximum amplitude level within the RBW.</p> <p>j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.</p>
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G Wi-Fi

6.6 Band Edge Measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<ul style="list-style-type: none"> a) Set RBW = 100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G Wi-Fi

6.7 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
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
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

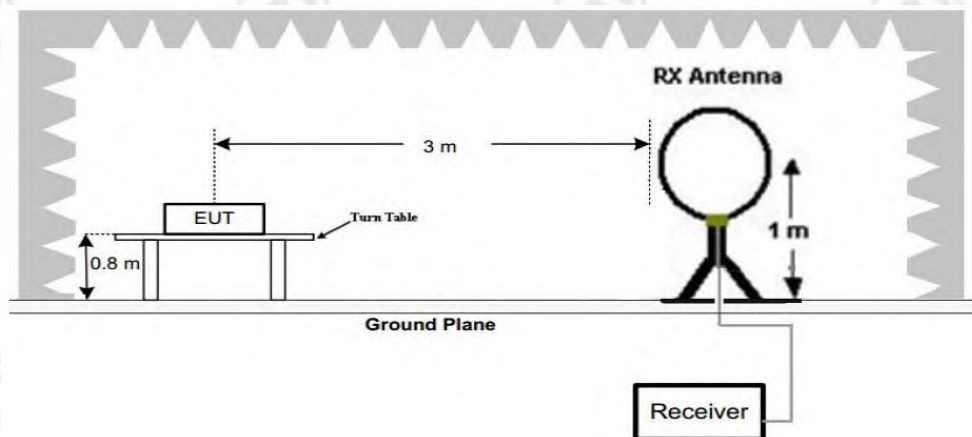


Figure 1. Below 30MHz

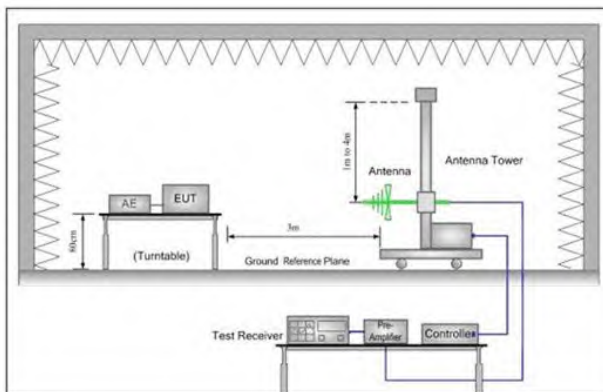


Figure 2. 30MHz to 1GHz

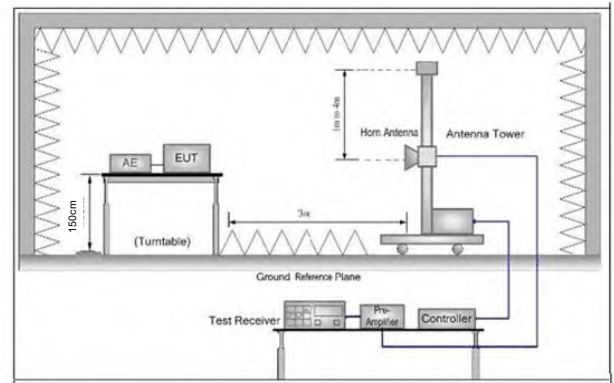


Figure 3. Above 1 GHz

Test Procedure:

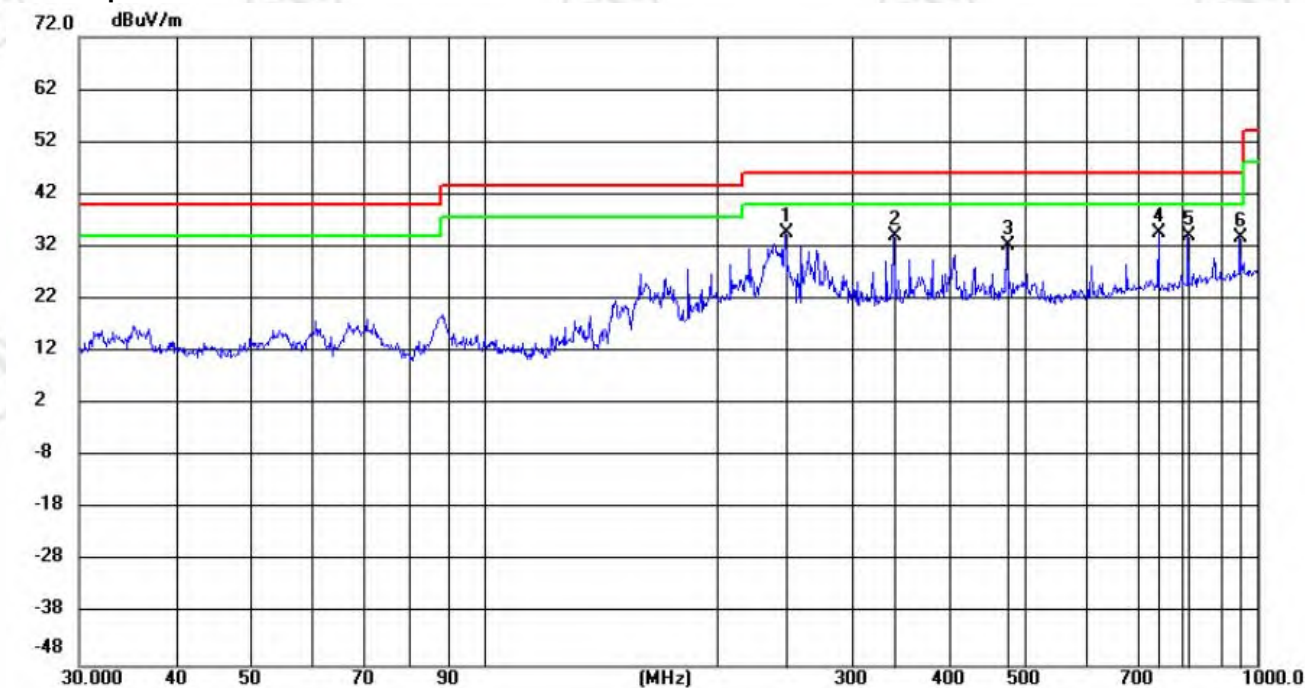
- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both

	<p>horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>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.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p> <p>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</p> <p>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.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Test Mode:	Refer to clause 5.3
Test Results:	Pass

Radiated Spurious Emission below 1GHz:

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

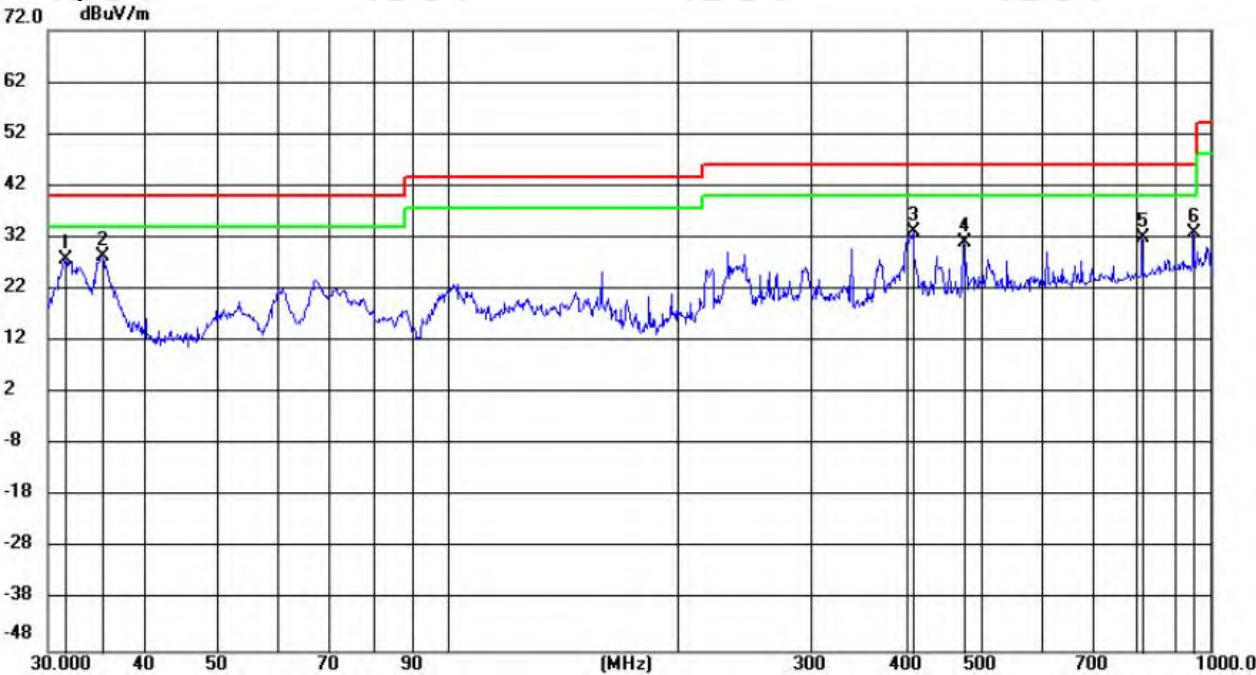
Horizontal:
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		245.7785	20.40	14.11	34.51	46.00	-11.49	QP	100	134
2		338.9939	17.23	16.89	34.12	46.00	-11.88	QP	100	92
3		474.5829	12.89	19.38	32.27	46.00	-13.73	QP	200	145
4	*	745.9114	10.91	23.69	34.60	46.00	-11.40	QP	100	124
5		813.6820	9.39	24.69	34.08	46.00	-11.92	QP	100	134
6		949.2601	7.56	26.21	33.77	46.00	-12.23	QP	100	352

Vertical:

Test Graph



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	
1		31.5316	15.19	12.44	27.63	40.00	-12.37	QP	100	7
2	*	35.2635	15.30	12.97	28.27	40.00	-11.73	QP	100	50
3		408.4444	14.92	18.19	33.11	46.00	-12.89	QP	100	168
4		474.5829	11.63	19.38	31.01	46.00	-14.99	QP	100	7
5		813.6820	7.14	24.69	31.83	46.00	-14.17	QP	100	349
6		949.2602	6.63	26.21	32.84	46.00	-13.16	QP	100	7

Radiated Spurious Emission above 1GHz:

Remark: Through Pre-scan, for 20MHz Occupied Bandwidth, 802.11 b mode was the worst case; for 40MHz Occupied Bandwidth, 802.11 n(HT40) mode was the worst case; only the worst case of was recorded in the report.

Mode:			802.11 b Transmitting			Channel:		2412MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1172.9449	9.65	38.13	47.78	74.00	26.22	PASS	H	PK
2	1677.6452	12.52	37.46	49.98	74.00	24.02	PASS	H	PK
3	3544.0363	-13.16	52.73	39.57	74.00	34.43	PASS	H	PK
4	5490.166	-8.54	47.46	38.92	74.00	35.08	PASS	H	PK
5	8101.3401	-3.50	54.49	50.99	74.00	23.01	PASS	H	PK
6	10601.5068	5.53	42.51	48.04	74.00	25.96	PASS	H	PK
7	1195.8797	8.90	40.60	49.50	74.00	24.50	PASS	V	PK
8	1706.9805	12.94	37.41	50.35	74.00	23.65	PASS	V	PK
9	3687.0458	-12.67	51.97	39.30	74.00	34.70	PASS	V	PK
10	5821.1881	-7.36	47.97	40.61	74.00	33.39	PASS	V	PK
11	8101.3401	-3.50	54.51	51.01	74.00	22.99	PASS	V	PK
12	11940.596	5.44	43.69	49.13	74.00	24.87	PASS	V	PK

Mode:			802.11 b Transmitting			Channel:		2437MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1157.3438	10.17	37.74	47.91	74.00	26.09	PASS	H	PK
2	1716.4478	12.96	38.65	51.61	74.00	22.39	PASS	H	PK
3	3899.0599	-11.81	53.76	41.95	74.00	32.05	PASS	H	PK
4	5969.1979	-6.91	47.54	40.63	74.00	33.37	PASS	H	PK
5	8100.34	-3.50	53.78	50.28	74.00	23.72	PASS	H	PK
6	11931.5954	5.05	44.11	49.16	74.00	24.84	PASS	H	PK
7	1145.8764	10.28	39.07	49.35	74.00	24.65	PASS	V	PK
8	1732.5822	13.01	37.01	50.02	74.00	23.98	PASS	V	PK
9	3899.0599	-11.81	54.51	42.70	74.00	31.30	PASS	V	PK
10	5428.1619	-8.65	48.12	39.47	74.00	34.53	PASS	V	PK
11	8100.34	-3.50	54.99	51.49	74.00	22.51	PASS	V	PK
12	11345.5564	4.96	43.92	48.88	74.00	25.12	PASS	V	PK

Mode:			802.11 b Transmitting			Channel:		2462MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1819.9213	14.64	38.31	52.95	74.00	21.05	PASS	H	PK
2	3456.0304	-12.88	53.31	40.43	74.00	33.57	PASS	H	PK
3	5050.1367	-8.81	48.83	40.02	74.00	33.98	PASS	H	PK
4	8101.3401	-3.50	55.28	51.78	74.00	22.22	PASS	H	PK
5	13256.6838	8.68	41.62	50.30	74.00	23.70	PASS	H	PK
6	15252.8169	13.47	38.52	51.99	74.00	22.01	PASS	H	PK
7	1868.1912	15.37	37.55	52.92	74.00	21.08	PASS	V	PK
8	3939.0626	-11.50	53.18	41.68	74.00	32.32	PASS	V	PK
9	6091.2061	-6.06	48.11	42.05	74.00	31.95	PASS	V	PK
10	8101.3401	-3.50	54.93	51.43	74.00	22.57	PASS	V	PK
11	11986.5991	5.89	44.41	50.30	74.00	23.70	PASS	V	PK
12	16813.9209	13.03	40.36	53.39	74.00	20.61	PASS	V	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		2422MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2069.8047	15.31	38.43	53.74	74.00	20.26	PASS	H	PK
2	3875.0583	-13.40	53.36	39.96	74.00	34.04	PASS	H	PK
3	5658.1772	-9.02	48.29	39.27	74.00	34.73	PASS	H	PK
4	7592.3062	-3.50	45.38	41.88	74.00	32.12	PASS	H	PK
5	8101.3401	-3.50	54.74	51.24	74.00	22.76	PASS	H	PK
6	13253.6836	8.91	41.80	50.71	74.00	23.29	PASS	H	PK
7	1895.9264	15.45	37.73	53.18	74.00	20.82	PASS	V	PK
8	3875.0583	-13.40	54.82	41.42	74.00	32.58	PASS	V	PK
9	4914.1276	-10.60	50.28	39.68	74.00	34.32	PASS	V	PK
10	8101.3401	-3.50	55.13	51.63	74.00	22.37	PASS	V	PK
11	10818.5212	4.18	44.19	48.37	74.00	25.63	PASS	V	PK
12	15242.8162	13.47	39.06	52.53	74.00	21.47	PASS	V	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		2437MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1859.1239	15.34	38.15	53.49	74.00	20.51	PASS	H	PK
2	3899.0599	-11.81	54.04	42.23	74.00	31.77	PASS	H	PK
3	6815.2544	-5.00	46.70	41.70	74.00	32.30	PASS	H	PK
4	8100.34	-3.50	54.18	50.68	74.00	23.32	PASS	H	PK
5	10979.532	4.74	44.14	48.88	74.00	25.12	PASS	H	PK
6	14250.75	12.82	40.19	53.01	74.00	20.99	PASS	H	PK
7	1912.3275	15.87	37.62	53.49	74.00	20.51	PASS	V	PK
8	4224.0816	-11.42	50.83	39.41	74.00	34.59	PASS	V	PK
9	6398.2265	-5.35	47.28	41.93	74.00	32.07	PASS	V	PK
10	8100.34	-3.50	55.03	51.53	74.00	22.47	PASS	V	PK
11	11024.535	4.93	43.39	48.32	74.00	25.68	PASS	V	PK
12	15245.8164	13.70	38.33	52.03	74.00	21.97	PASS	V	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		2452MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1879.6586	15.41	37.74	53.15	74.00	20.85	PASS	H	PK
2	3430.0287	-12.96	53.51	40.55	74.00	33.45	PASS	H	PK
3	5089.1393	-9.41	49.49	40.08	74.00	33.92	PASS	H	PK
4	8100.34	-3.50	54.78	51.28	74.00	22.72	PASS	H	PK
5	9830.4554	2.98	44.54	47.52	74.00	26.48	PASS	H	PK
6	14253.7502	12.55	39.99	52.54	74.00	21.46	PASS	H	PK
7	1938.7292	16.72	35.75	52.47	74.00	21.53	PASS	V	PK
8	3798.0532	-11.89	52.33	40.44	74.00	33.56	PASS	V	PK
9	5050.1367	-8.81	49.01	40.20	74.00	33.80	PASS	V	PK
10	6890.2594	-4.30	45.75	41.45	74.00	32.55	PASS	V	PK
11	8101.3401	-3.50	55.36	51.86	74.00	22.14	PASS	V	PK
12	14867.7912	10.17	41.00	51.17	74.00	22.83	PASS	V	PK

Remark:

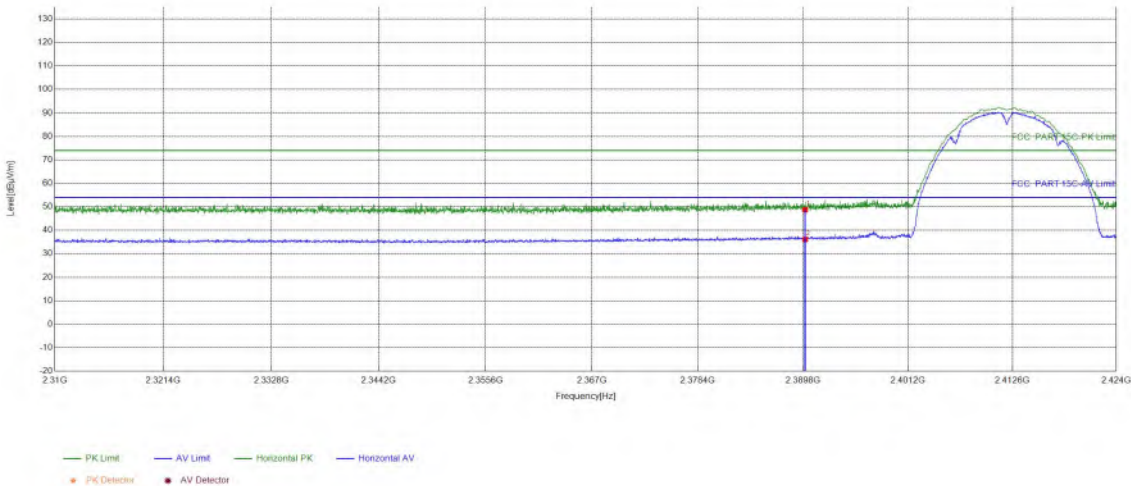
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, 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. So, only the peak measurements were shown in the report.

Restricted bands:

Test plot as follows:

EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

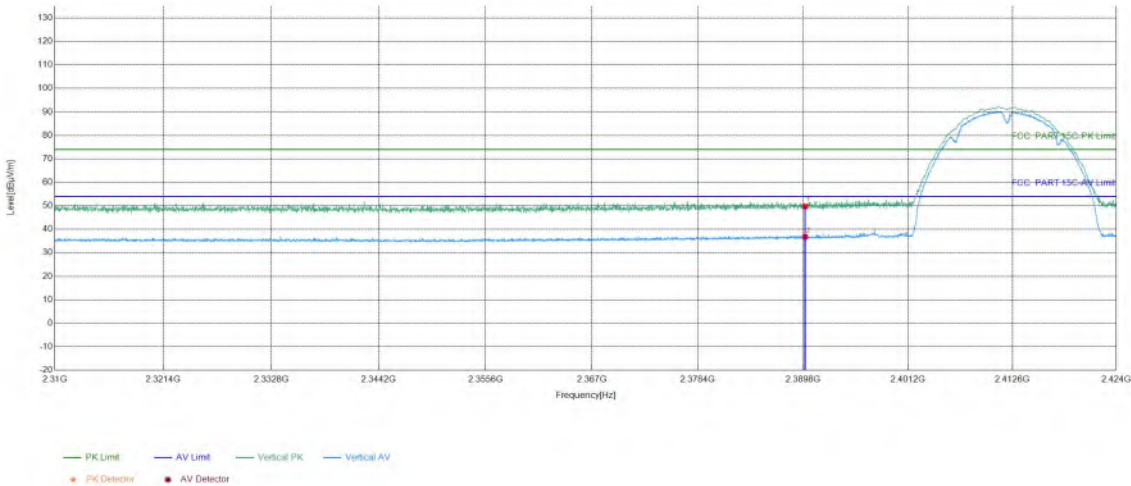
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	33.43	48.74	74.00	25.26	PASS	Horizontal	PK
2	2390	15.31	20.79	36.10	54.00	17.90	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

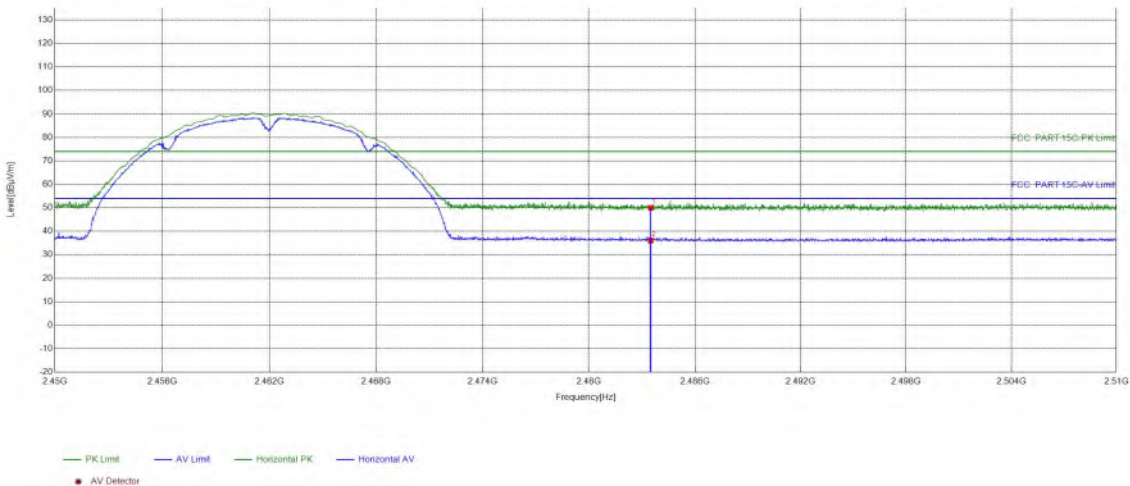
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	34.43	49.74	74.00	24.26	PASS	Vertical	PK
2	2390	15.31	21.44	36.75	54.00	17.25	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

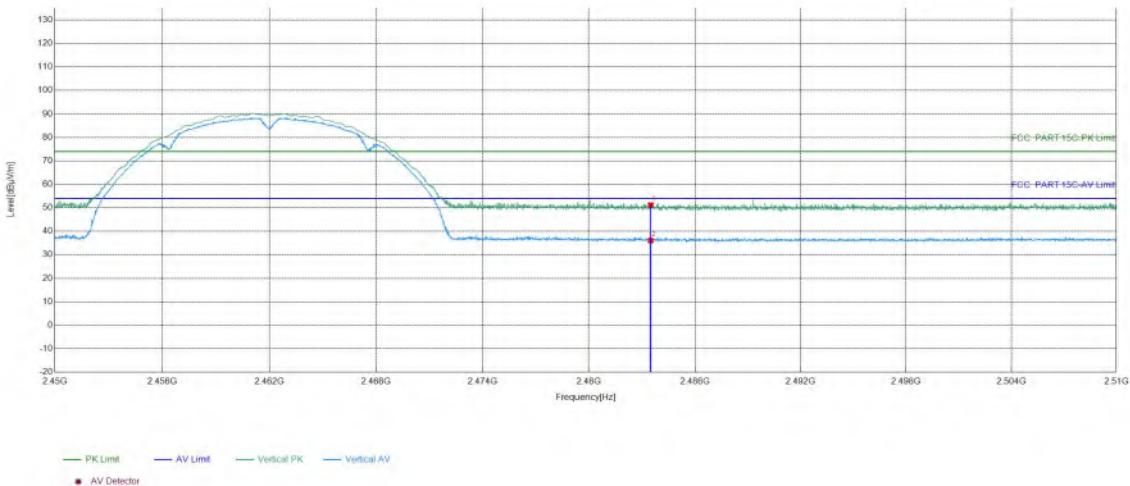
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	34.76	49.92	74.00	24.08	PASS	Horizontal	PK
2	2483.5	15.16	20.85	36.01	54.00	17.99	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

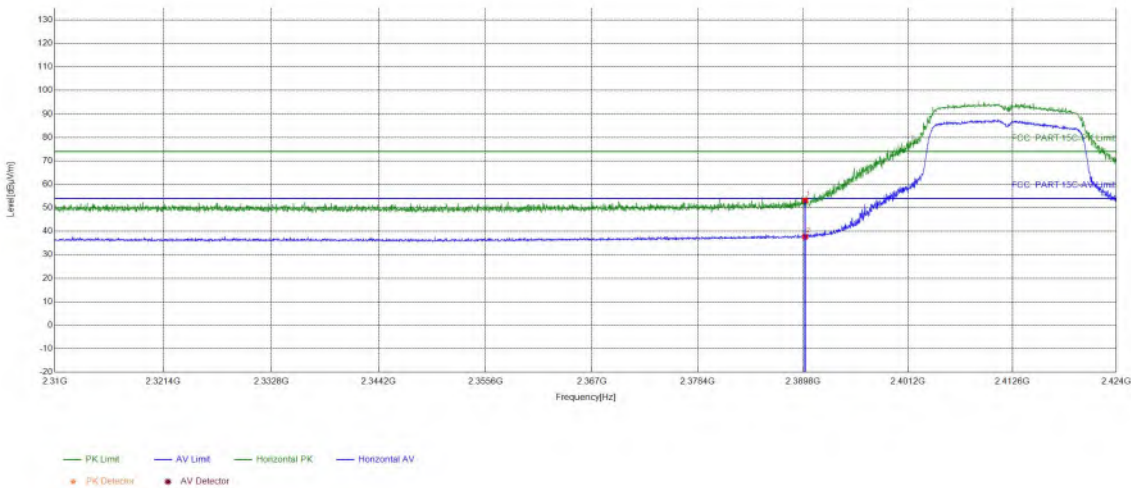
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	36.02	51.18	74.00	22.82	PASS	Vertical	PK
2	2483.5	15.16	20.90	36.06	54.00	17.94	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

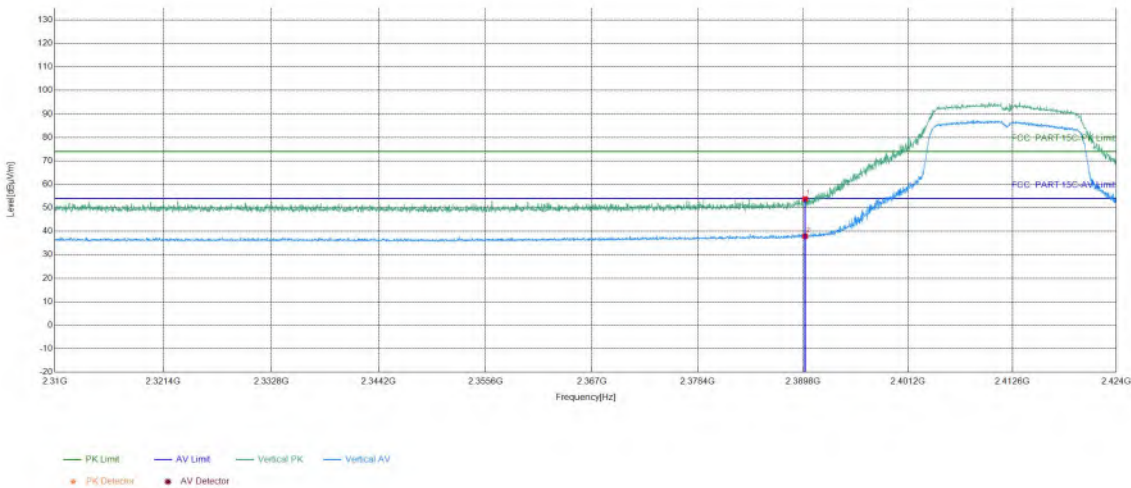
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	37.81	53.12	74.00	20.88	PASS	Horizontal	PK
2	2390	15.31	22.32	37.63	54.00	16.37	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

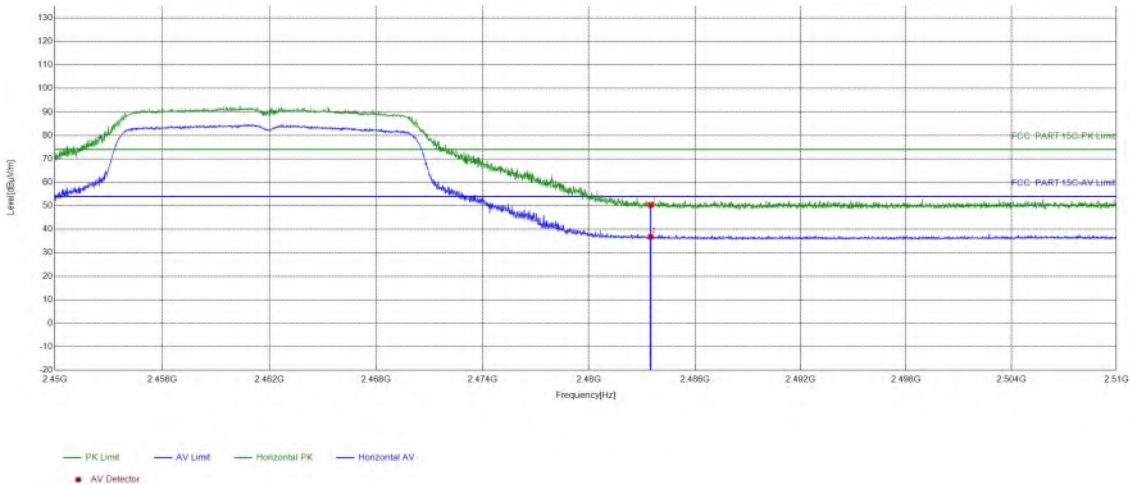
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	38.46	53.77	74.00	20.23	PASS	Vertical	PK
2	2390	15.31	22.54	37.85	54.00	16.15	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

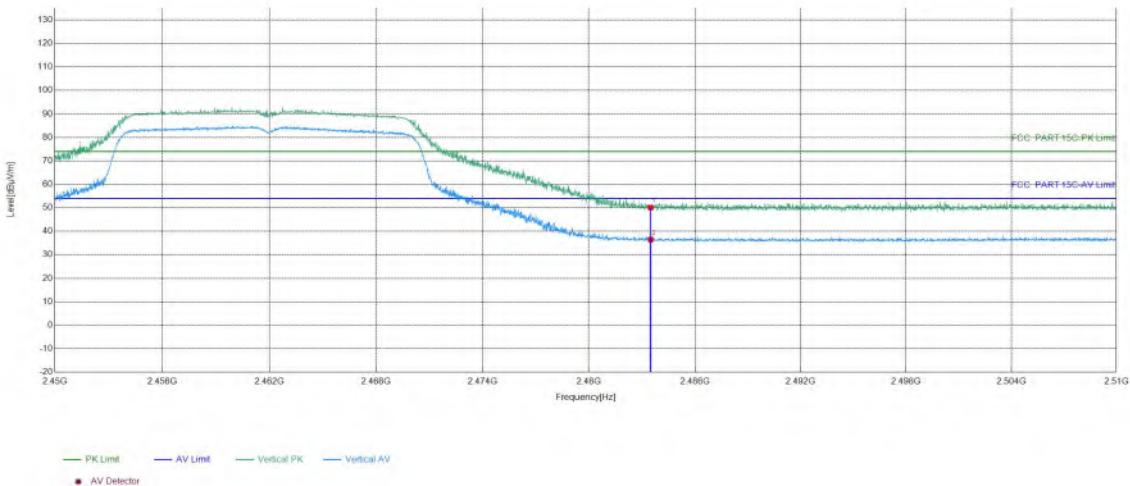
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	35.14	50.30	74.00	23.70	PASS	Horizontal	PK
2	2483.5	15.16	21.63	36.79	54.00	17.21	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

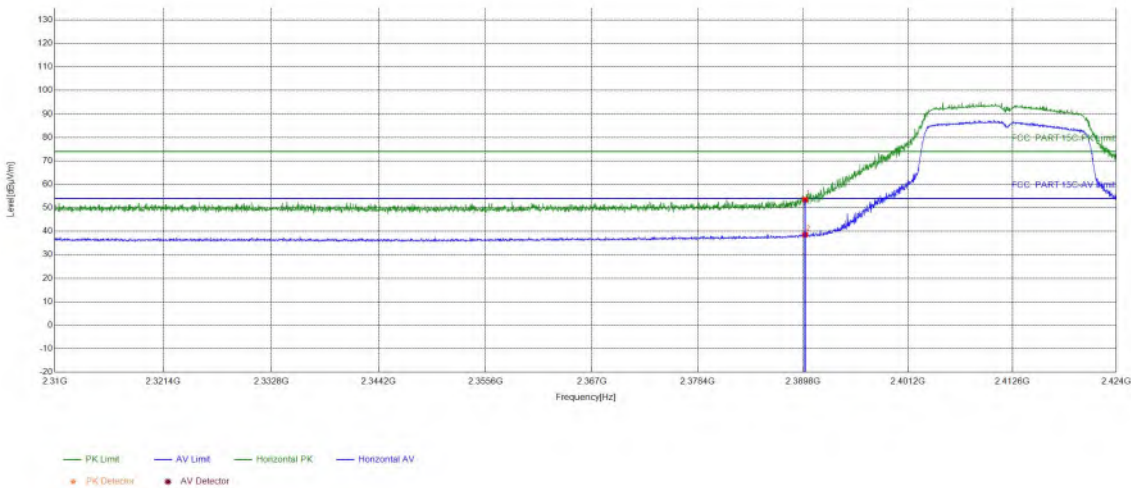
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	34.92	50.08	74.00	23.92	PASS	Vertical	PK
2	2483.5	15.16	21.30	36.46	54.00	17.54	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

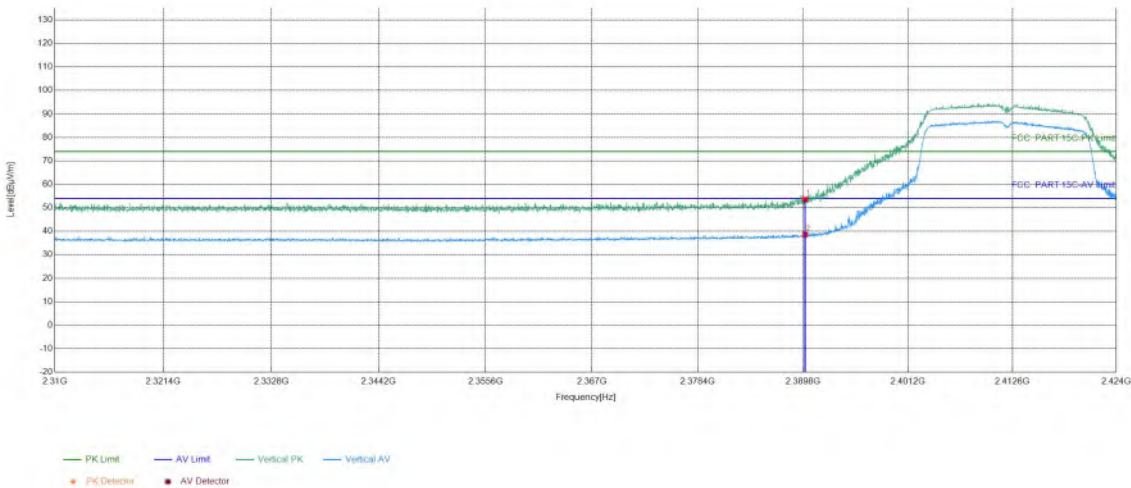
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	38.13	53.44	74.00	20.56	PASS	Horizontal	PK
2	2390	15.31	23.23	38.54	54.00	15.46	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

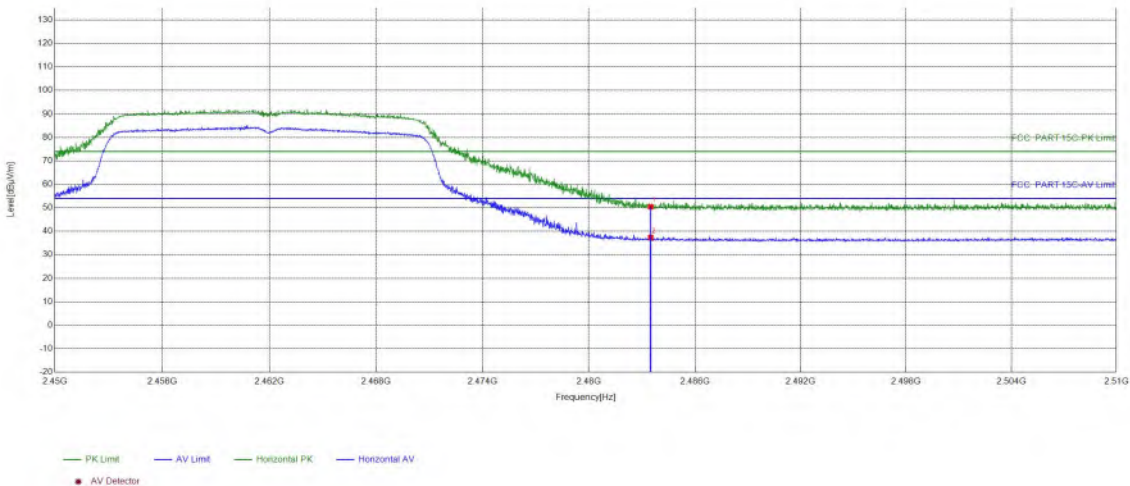
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	38.27	53.58	74.00	20.42	PASS	Vertical	PK
2	2390	15.31	23.26	38.57	54.00	15.43	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

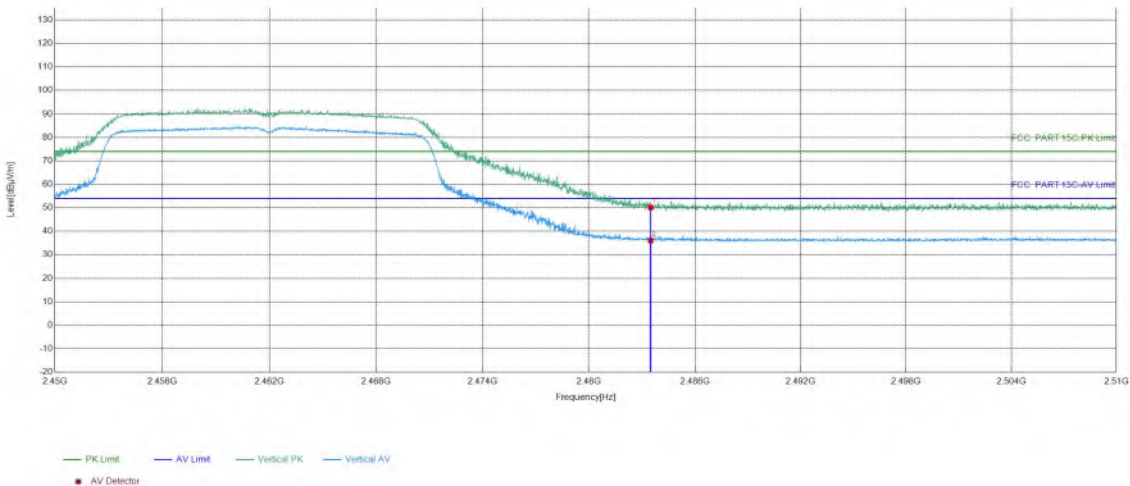
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	35.26	50.42	74.00	23.58	PASS	Horizontal	PK
2	2483.5	15.16	22.19	37.35	54.00	16.65	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

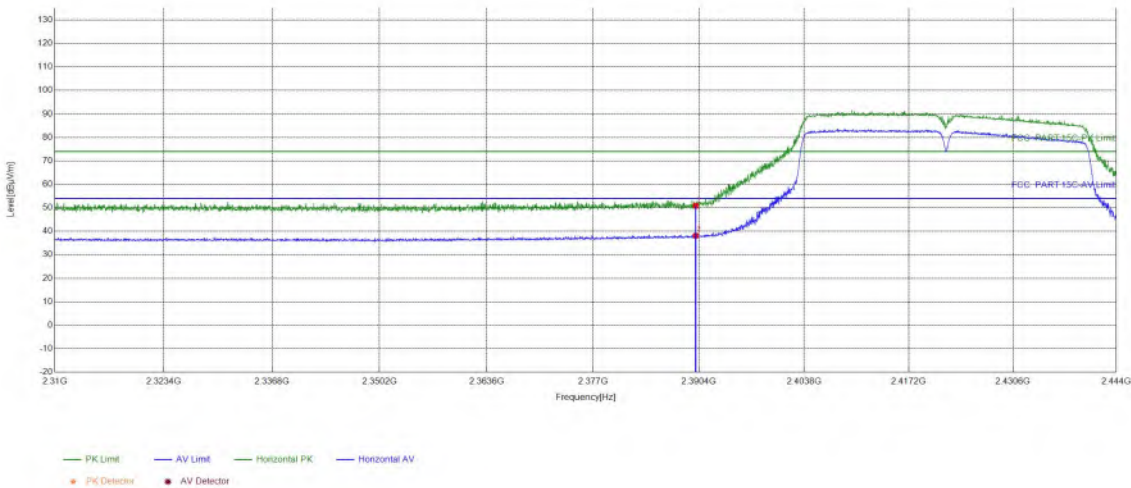
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	34.97	50.13	74.00	23.87	PASS	Vertical	PK
2	2483.5	15.16	20.91	36.07	54.00	17.93	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2422MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

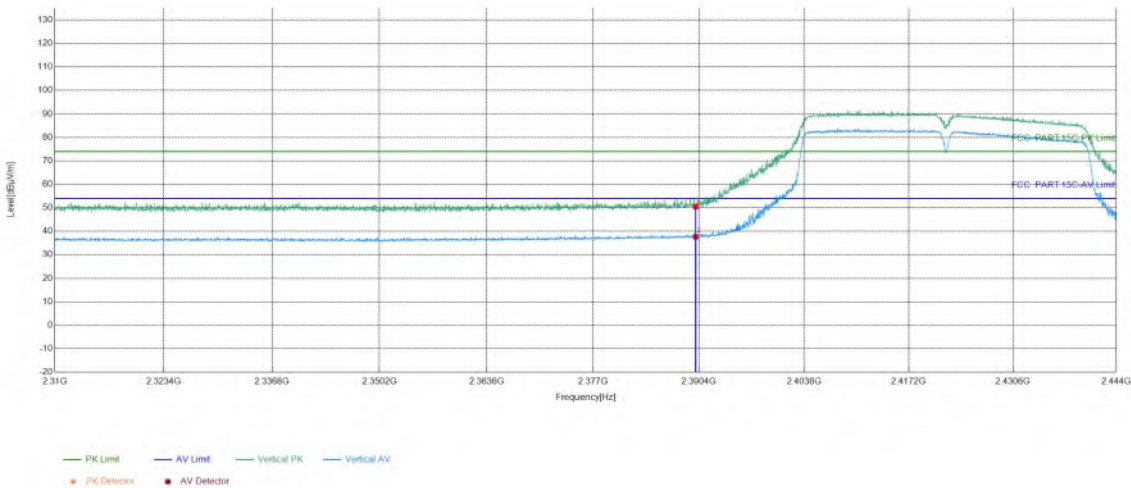
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	35.61	50.92	74.00	23.08	PASS	Horizontal	PK
2	2390	15.31	22.80	38.11	54.00	15.89	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2422MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

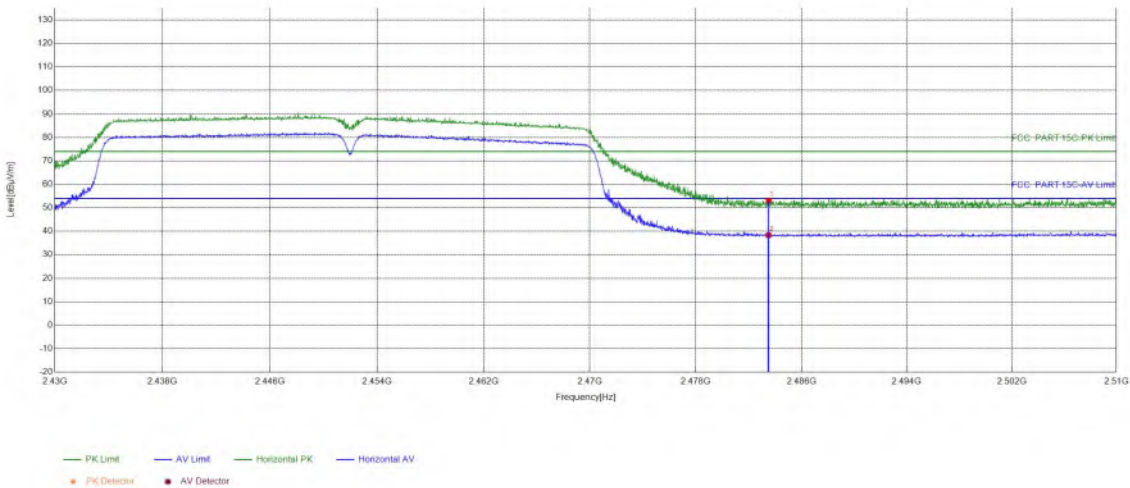
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	35.19	50.50	74.00	23.50	PASS	Vertical	PK
2	2390	15.31	22.32	37.63	54.00	16.37	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2452MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

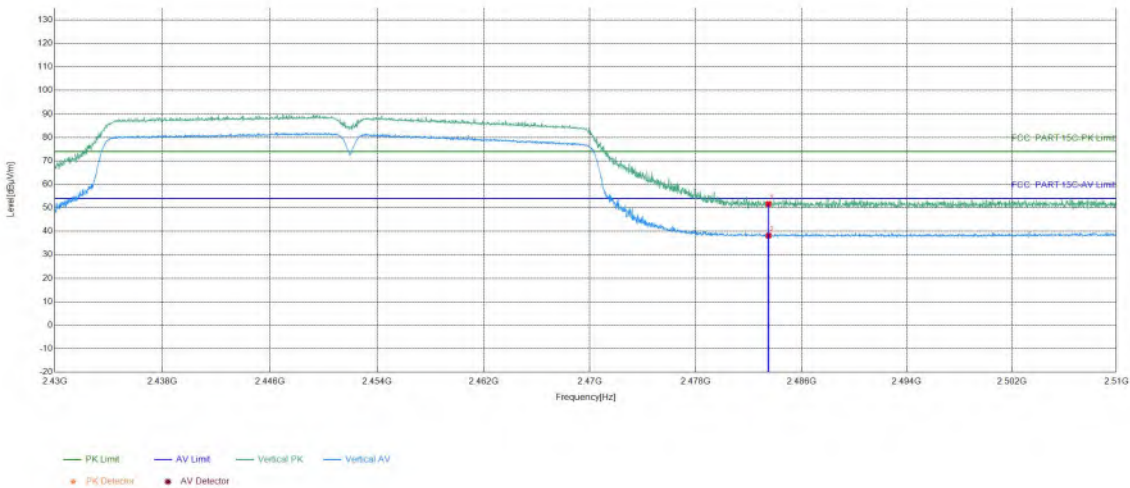
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	37.90	53.06	74.00	20.94	PASS	Horizontal	PK
2	2483.5	15.16	23.18	38.34	54.00	15.66	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2452MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

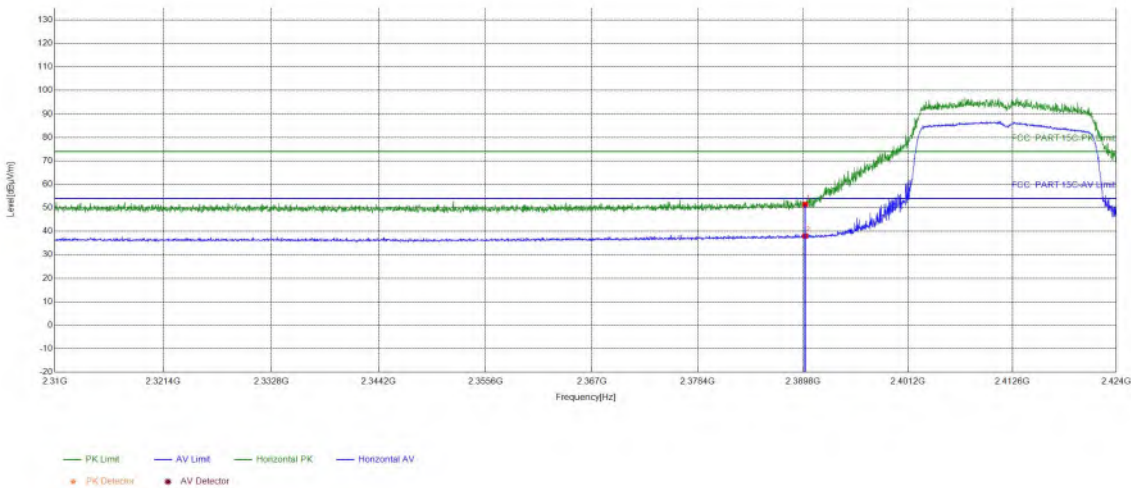
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	36.49	51.65	74.00	22.35	PASS	Vertical	PK
2	2483.5	15.16	22.99	38.15	54.00	15.85	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ax(HE20) Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

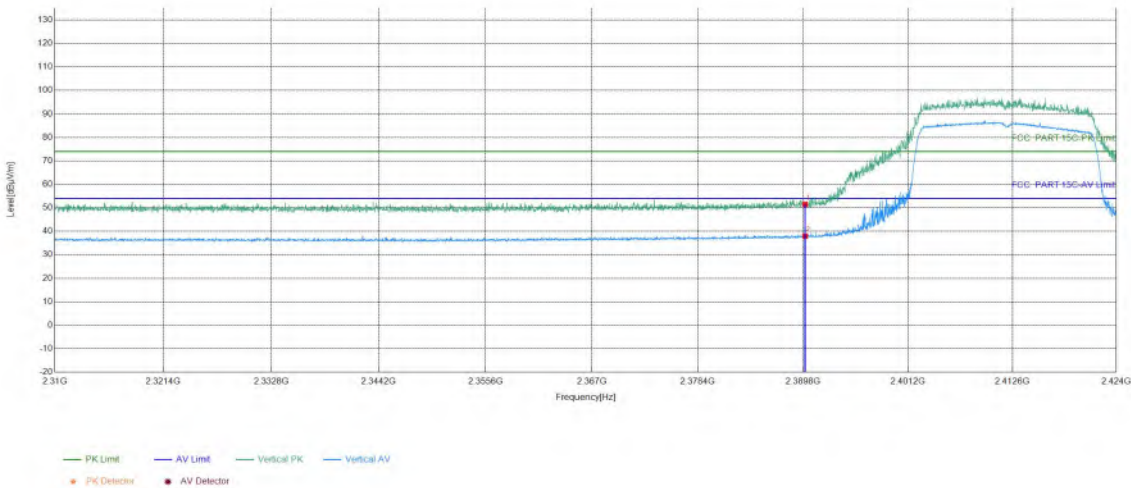
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	36.15	51.46	74.00	22.54	PASS	Horizontal	PK
2	2390	15.31	22.69	38.00	54.00	16.00	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ax(HE20) Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

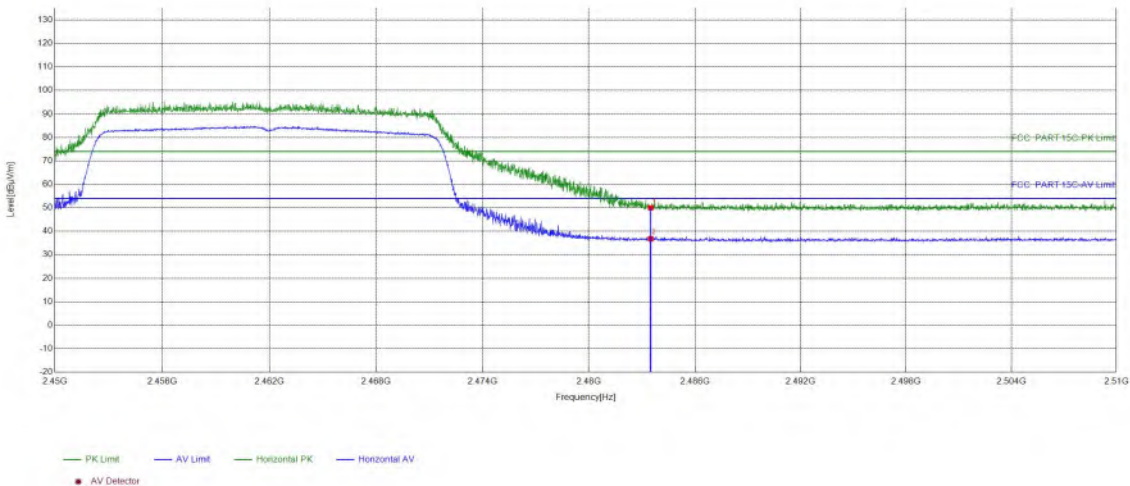
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	36.21	51.52	74.00	22.48	PASS	Vertical	PK
2	2390	15.31	22.63	37.94	54.00	16.06	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ax(HE20) Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

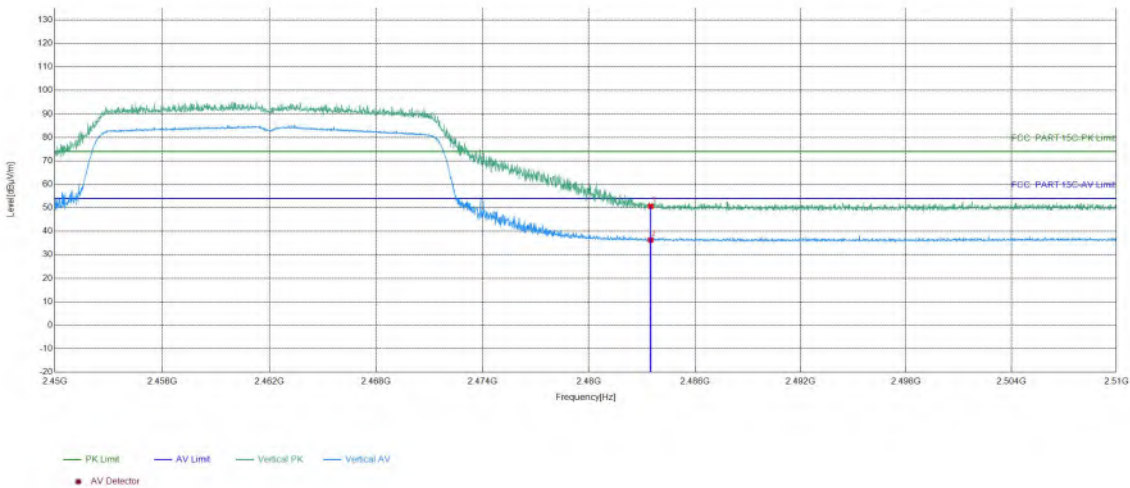
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	34.84	50.00	74.00	24.00	PASS	Horizontal	PK
2	2483.5	15.16	21.64	36.80	54.00	17.20	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ax(HE20) Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

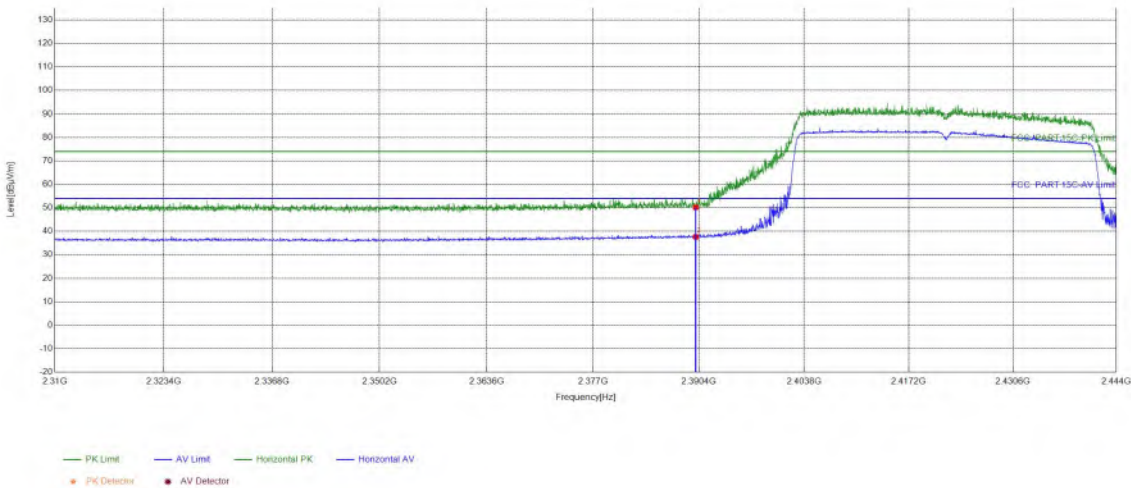
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	35.49	50.65	74.00	23.35	PASS	Vertical	PK
2	2483.5	15.16	21.13	36.29	54.00	17.71	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ax(HE40) Transmitting	Test_Frequency	2422MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

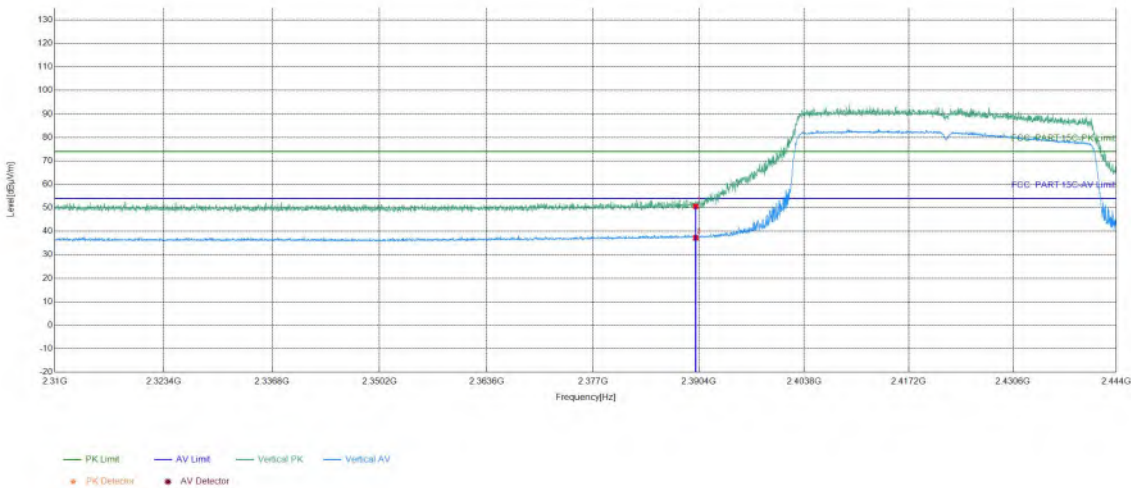
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	34.90	50.21	74.00	23.79	PASS	Horizontal	PK
2	2390	15.31	22.32	37.63	54.00	16.37	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ax(HE40) Transmitting	Test_Frequency	2422MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

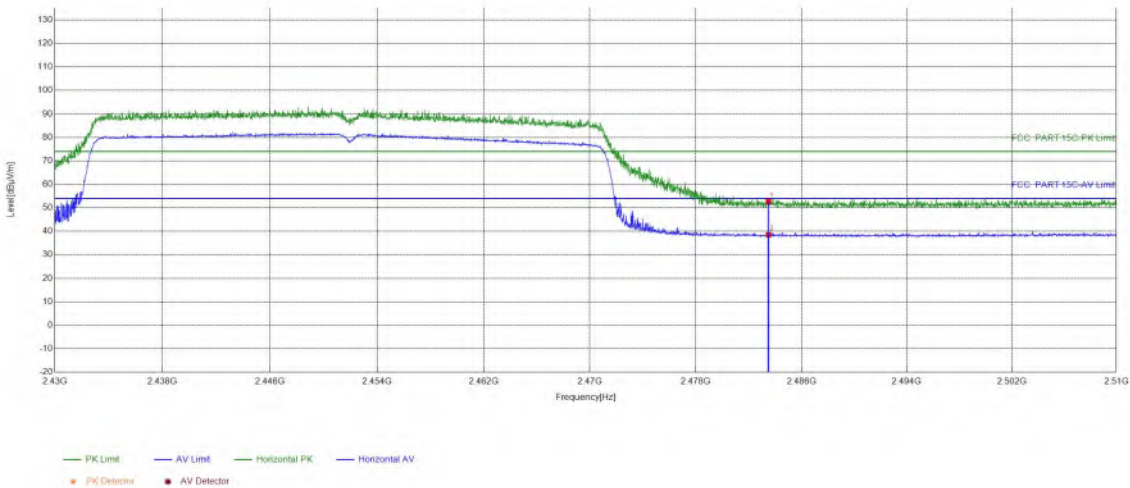
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	35.33	50.64	74.00	23.36	PASS	Vertical	PK
2	2390	15.31	21.94	37.25	54.00	16.75	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ax(HE40) Transmitting	Test_Frequency	2452MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

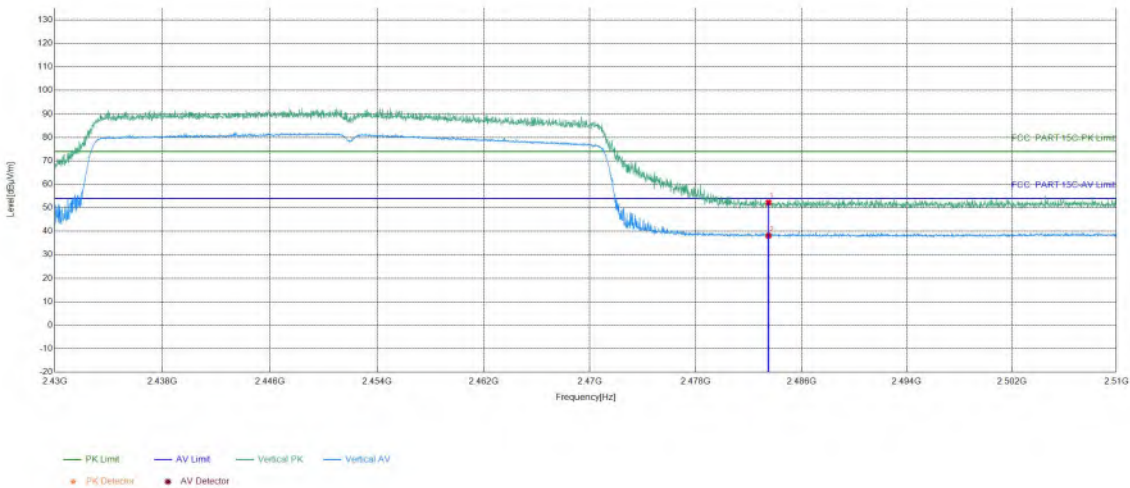
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	37.47	52.63	74.00	21.37	PASS	Horizontal	PK
2	2483.5	15.16	23.34	38.50	54.00	15.50	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 ax(HE40) Transmitting	Test_Frequency	2452MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/16
Remark	23.5°C56.9%\		

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	37.08	52.24	74.00	21.76	PASS	Vertical	PK
2	2483.5	15.16	22.96	38.12	54.00	15.88	PASS	Vertical	AV

Note:
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

7 Appendix 2.4G Wi-Fi

Refer to Appendix: 2.4G Wi-Fi of EED32Q81846702