

TEST REPORT

Product : UAV Automatic Docking Station
Trade mark : N/A
Model/Type reference : K01
Serial Number : N/A
Report Number : EED32Q80130801
FCC ID : 2A8WC-K01
Date of Issue : Mar. 25, 2024
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

GDU-Tech Co., Ltd.

**Building 2, No.5, Huanglongshan South Road, Donghu New Technology
Development Zone, Wuhan 430074, China**

Prepared by:

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Date:

Mar. 25, 2024

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Check No.: 4546171123

2 Content

1 COVER PAGE	1
2 CONTENT	2
3 VERSION	3
4 TEST SUMMARY	4
5 GENERAL INFORMATION	5
5.1 CLIENT INFORMATION	5
5.2 GENERAL DESCRIPTION OF EUT	5
5.3 TEST CONFIGURATION	7
5.4 TEST ENVIRONMENT	8
5.5 DESCRIPTION OF SUPPORT UNITS	8
5.6 TEST LOCATION	8
5.7 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	9
6 EQUIPMENT LIST	10
7 TEST RESULTS AND MEASUREMENT DATA	13
7.1 ANTENNA REQUIREMENT	13
7.2 MAXIMUM CONDUCTED OUTPUT POWER	14
7.3 DTS BANDWIDTH	15
7.4 MAXIMUM POWER SPECTRAL DENSITY	16
7.5 BAND EDGE MEASUREMENTS AND CONDUCTED SPURIOUS EMISSION	17
7.6 RADIATED SPURIOUS EMISSION & RESTRICTED BANDS	18
8 APPENDIX 2.4G	40
9 PHOTOGRAPHS OF TEST SETUP	41
10 PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	43

3 Version

Version No.	Date	Description
00	Mar. 25, 2024	Original

4 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	N/A
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:

N/A:Only DC power supply is supported and this item is not considered.

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:	GDU-Tech Co., Ltd.
Address of Applicant:	Building 2, No.5, Huanglongshan South Road, Donghu New Technology Development Zone, Wuhan 430074, China
Manufacturer:	GDU-Tech Co., Ltd.
Address of Manufacturer:	Building 2, No.5, Huanglongshan South Road, Donghu New Technology Development Zone, Wuhan 430074, China

5.2 General Description of EUT

Product Name:	UAV Automatic Docking Station
Model No.:	K01
Trade mark:	N/A
Product Type:	☐ Mobile ☐ Portable ☒ Fix Location
Operation Frequency:	2.4G Slot 10MHz: 2410-2465MHz; 2.4G Slot 20MHz: 2415-2460MHz; 2.4G Slot 40MHz: 2425-2450MHz;
Modulation Type:	OFDM
Antenna Configuration	☐ Single Transmitting (1T1R); ☒ MIMO (☒ 2T2R, ☐ 3T3R, ☐ 4T4R, ☐ Other);
Antenna Type:	External Antenna
Antenna Gain:	5dBi
Power Supply:	DC 24V
Test Voltage:	DC 24V
Sample Received Date:	Jan. 29, 2024
Sample tested Date:	Jan. 29, 2024 to Mar. 06, 2024

Operation Frequency each of MIMO mode:

Mode	Frequency
2.4G Slot 10MHz	2410MHz
	2440MHz
	2465MHz
2.4G Slot 20MHz	2415MHz
	2420MHz
	2440MHz
	2455MHz
	2460MHz
2.4G Slot 40MHz	2425MHz
	2440MHz
	2450MHz

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:

2.4G Slot 10MHz

Channel	Frequency
The lowest channel	2410MHz
The middle channel	2440MHz
The highest channel	2465MHz

82.4G Slot 20MHz

Channel	Frequency
The lowest channel	2415MHz
The middle channel	2440MHz
The highest channel	2460MHz

82.4G Slot 40MHz

Channel	Frequency
The lowest channel	2425MHz
The middle channel	2440MHz
The highest channel	2450MHz

5.3 Test Configuration

EUT Test Software Settings:	
Test Software:	ARSirisu Debug Tool
EUT Power Grade:	Default
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.	

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

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	HP	TPN-Q207	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 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)
		4.3dB (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%

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	12-14-2023	12-13-2024
Signal Generator	Keysight	N5182B	MY53051549	12-11-2023	12-10-2024
Signal Generator	Agilent	N5181A	MY46240094	12-11-2023	12-10-2024
DC Power	Keysight	E3642A	MY56376072	12-11-2023	12-10-2024
Wi-Fi 7GHz Band Extender	JS Tonscend	TS-WF7U2	2206200002	06-09-2023	06-08-2024
RF control unit	JS Tonscend	JS0806-2	22G8060592	08-04-2023	08-03-2024
Communication test set	R&S	CMW500	120765	12-14-2023	12-13-2024
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-11-2023	12-10-2024
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-01-2023	05-31-2024
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	V3.3.20	---	---

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model	Serial No.	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	ESCI7	100938-003	09/28/2022 09/22/2023	09/27/2023 09/21/2024
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Spectrum Analyzer	R&S	FSP40	100416	03/28/2023	03/27/2024
Multi device Controller	matturo	NCD/070/10711112	---	---	---
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Microwave Preamplifier	Agilent	8449B	3008A02425	06/20/2023	06/19/2024
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---

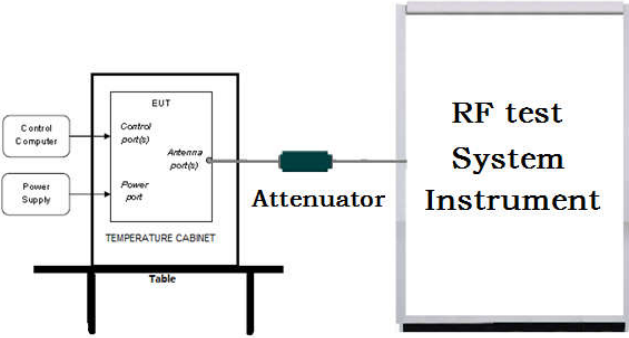
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-19-2024	01-18-2025
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-13-2024	01-12-2025
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-13-2023	04-12-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-25-2023	07-24-2024
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2023	04-10-2024
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2024	01-08-2027
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 Test results and Measurement Data

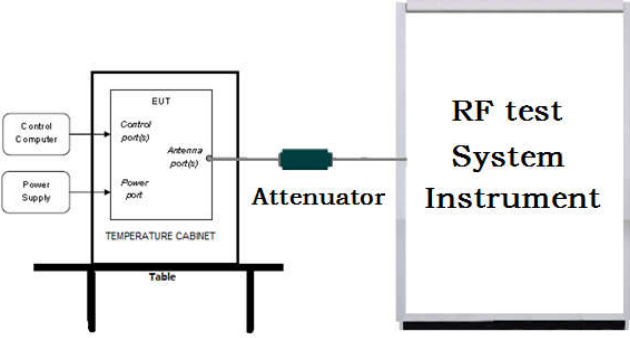
7.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
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.	
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.	
EUT Antenna:	Please see Internal photos
The antenna is external antenna. The best case gain of the antenna is 5dBi.	

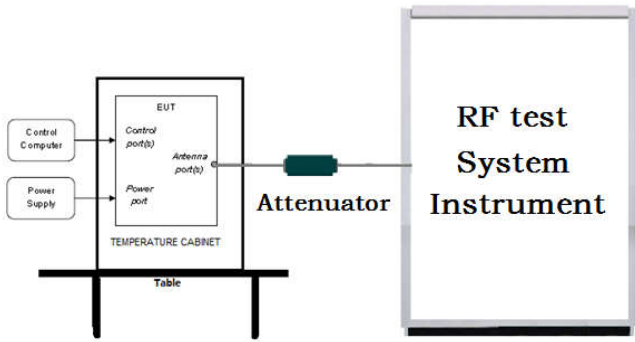
7.2 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013
Test Setup:	
Test Procedure:	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.
Limit:	30dBm
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G

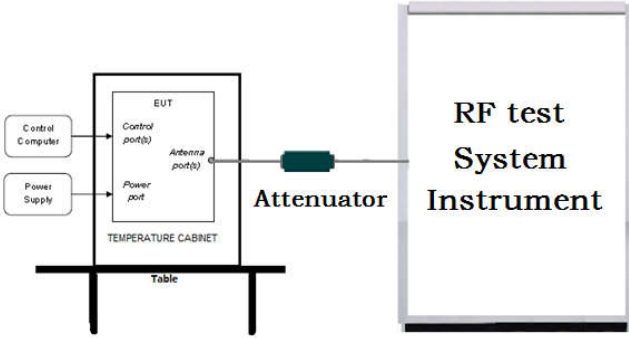
7.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
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

7.4 Maximum Power Spectral Density

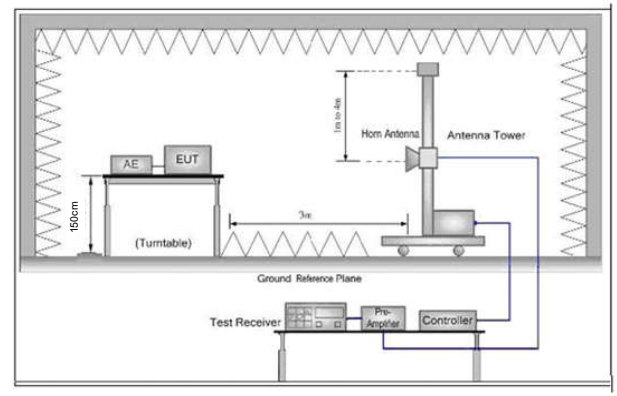
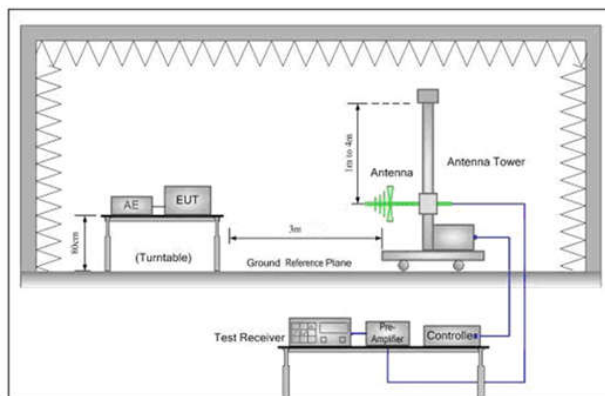
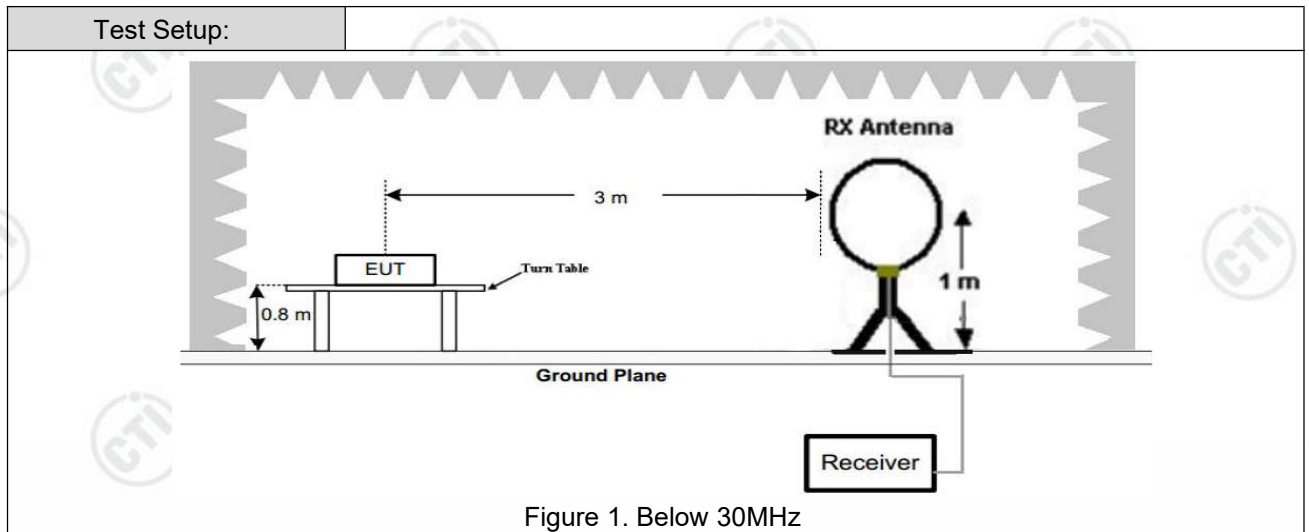
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to $3 \text{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

7.5 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:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	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

7.6 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 Procedure:

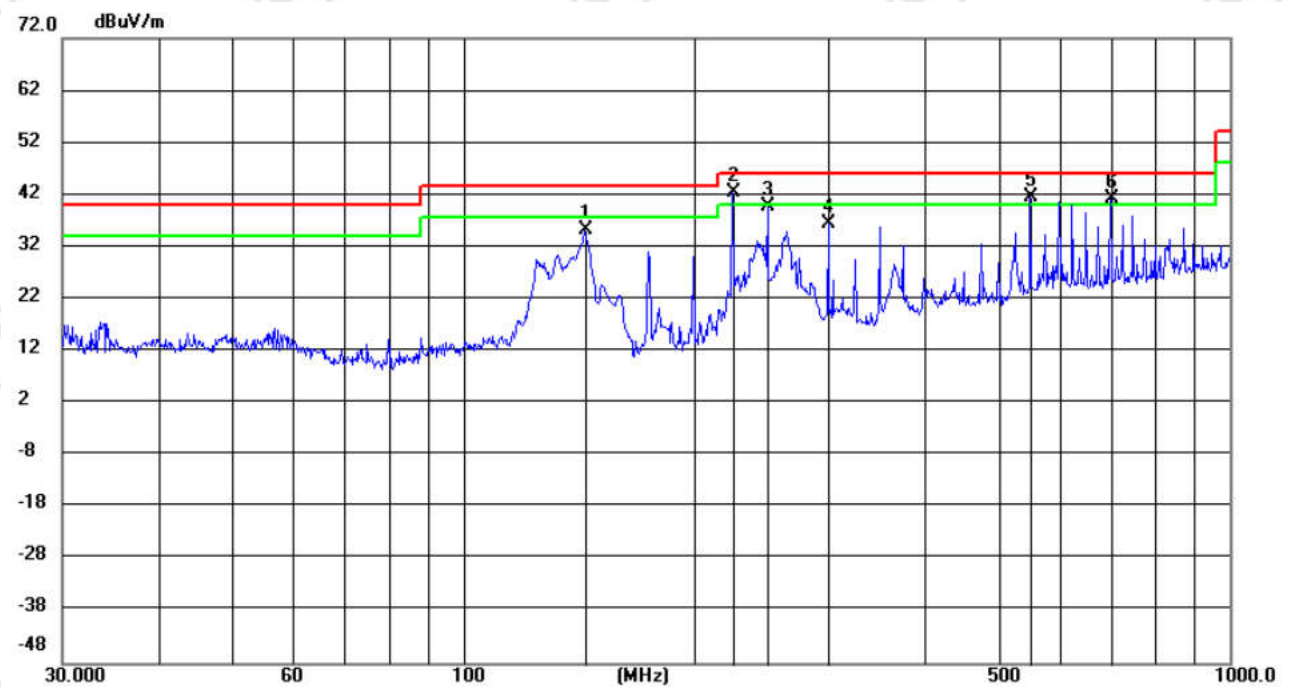
- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the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

	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 (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) 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:	Refer to clause 5.3
Test Results:	Pass

Radiated Spurious Emission below 1GHz:

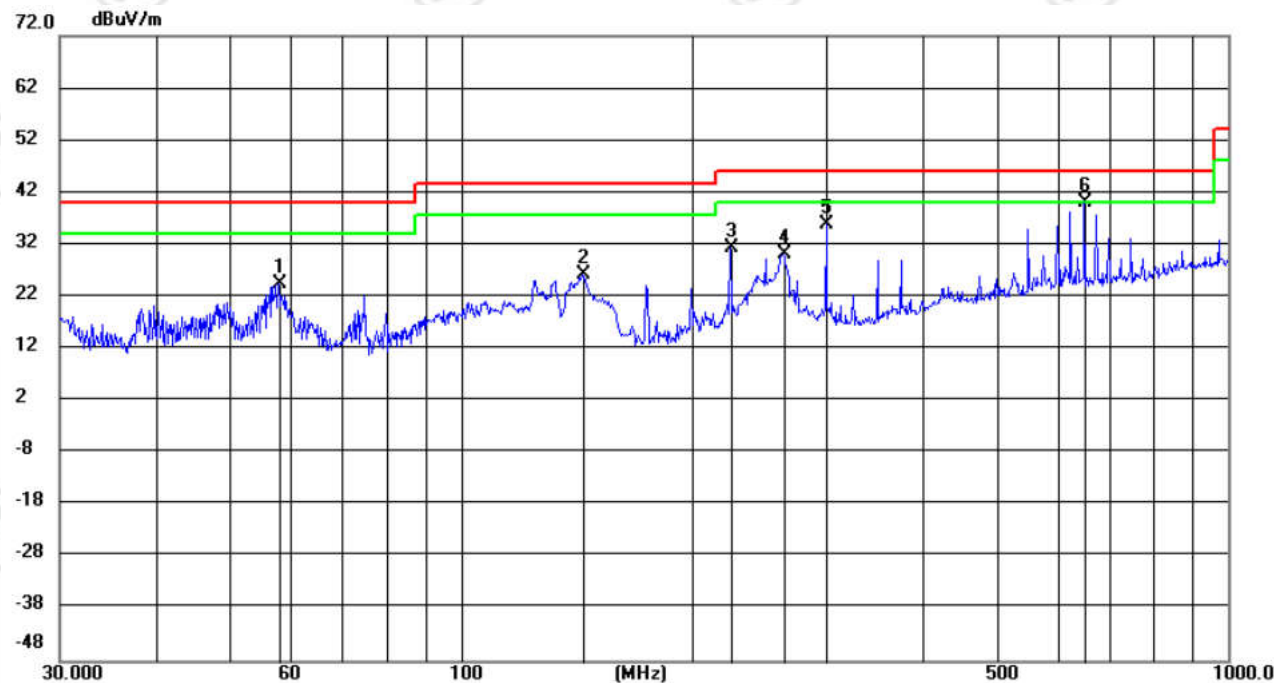
During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of 2.4G Slot 20MHz was recorded in the report.

Horizontal:
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		144.0061	25.53	9.63	35.16	43.50	-8.34	QP	199	119
2	*	224.9921	28.73	13.69	42.42	46.00	-3.58	QP	100	102
3		249.9941	25.02	14.69	39.71	46.00	-6.29	QP	100	122
4		299.9988	19.68	16.67	36.35	46.00	-9.65	QP	200	58
5	!	550.0793	19.47	22.22	41.69	46.00	-4.31	QP	199	68
6	!	700.0406	17.07	24.21	41.28	46.00	-4.72	QP	100	82

Vertical:
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		57.8875	11.13	13.46	24.59	40.00	-15.41	QP	100	308
2		144.0567	16.53	9.63	26.16	43.50	-17.34	QP	100	182
3		224.9922	17.52	13.69	31.21	46.00	-14.79	QP	100	319
4		263.2645	14.83	15.22	30.05	46.00	-15.95	QP	100	171
5		299.9988	19.27	16.67	35.94	46.00	-10.06	QP	200	190
6	*	650.0015	16.27	23.86	40.13	46.00	-5.87	QP	100	7

Radiated Spurious Emission above 1GHz:

Mode:			2.4G Slot 10MHz Transmitting			Channel:		2410 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1211.6212	7.97	38.83	46.80	74.00	27.20	Pass	H	PK
2	1845.0845	8.68	37.42	46.10	74.00	27.90	Pass	H	PK
3	3213.0142	-18.44	58.91	40.47	74.00	33.53	Pass	H	PK
4	5349.1566	-11.77	49.05	37.28	74.00	36.72	Pass	H	PK
5	8093.3396	-2.85	45.46	42.61	74.00	31.39	Pass	H	PK
6	13677.7118	5.35	42.76	48.11	74.00	25.89	Pass	H	PK
7	1239.824	7.89	38.21	46.10	74.00	27.90	Pass	V	PK
8	1794.0794	8.47	37.77	46.24	74.00	27.76	Pass	V	PK
9	3420.028	-18.20	59.94	41.74	74.00	32.26	Pass	V	PK
10	5021.1347	-13.36	52.78	39.42	74.00	34.58	Pass	V	PK
11	7820.3214	-3.95	47.19	43.24	74.00	30.76	Pass	V	PK
12	13678.7119	5.33	43.79	49.12	74.00	24.88	Pass	V	PK

Mode:			2.4G Slot 10MHz Transmitting			Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1269.2269	7.80	38.66	46.46	74.00	27.54	Pass	H	PK
2	1994.6995	8.99	37.38	46.37	74.00	27.63	Pass	H	PK
3	3253.0169	-18.26	57.28	39.02	74.00	34.98	Pass	H	PK
4	5426.1617	-11.66	49.41	37.75	74.00	36.25	Pass	H	PK
5	9512.4342	-0.61	44.25	43.64	74.00	30.36	Pass	H	PK
6	14792.7862	8.64	39.76	48.40	74.00	25.60	Pass	H	PK
7	1299.4299	7.72	38.23	45.95	74.00	28.05	Pass	V	PK
8	1898.6899	8.95	37.46	46.41	74.00	27.59	Pass	V	PK
9	3186.0124	-18.56	58.98	40.42	74.00	33.58	Pass	V	PK
10	5441.1627	-11.70	49.06	37.36	74.00	36.64	Pass	V	PK
11	9468.4312	-0.75	44.24	43.49	74.00	30.51	Pass	V	PK
12	14204.747	7.10	41.16	48.26	74.00	25.74	Pass	V	PK

Mode:			2.4G Slot 10MHz Transmitting			Channel:		2465 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1287.0287	7.75	38.68	46.43	74.00	27.57	Pass	H	PK
2	1968.2968	8.98	37.15	46.13	74.00	27.87	Pass	H	PK
3	3287.0191	-18.11	63.52	45.41	74.00	28.59	Pass	H	PK
4	5247.1498	-12.06	49.57	37.51	74.00	36.49	Pass	H	PK
5	9479.432	-0.64	45.23	44.59	74.00	29.41	Pass	H	PK
6	14223.7482	6.96	42.00	48.96	74.00	25.04	Pass	H	PK
7	1150.015	7.47	39.64	47.11	74.00	26.89	Pass	V	PK
8	1863.0863	8.77	37.06	45.83	74.00	28.17	Pass	V	PK
9	3287.0191	-18.11	56.50	38.39	74.00	35.61	Pass	V	PK
10	6245.2163	-10.20	48.01	37.81	74.00	36.19	Pass	V	PK
11	9481.4321	-0.62	44.34	43.72	74.00	30.28	Pass	V	PK
12	13715.7144	4.92	43.39	48.31	74.00	25.69	Pass	V	PK

Mode:			2.4G Slot 20MHz Transmitting			Channel:		2415 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1222.2222	7.94	38.13	46.07	74.00	27.93	Pass	H	PK
2	2010.7011	9.05	37.61	46.66	74.00	27.34	Pass	H	PK
3	3220.0147	-18.41	57.94	39.53	74.00	34.47	Pass	H	PK
4	5281.1521	-12.00	49.33	37.33	74.00	36.67	Pass	H	PK
5	8122.3415	-3.00	45.65	42.65	74.00	31.35	Pass	H	PK
6	14189.746	7.17	41.79	48.96	74.00	25.04	Pass	H	PK
7	1196.0196	7.96	38.79	46.75	74.00	27.25	Pass	V	PK
8	2020.102	9.10	37.46	46.56	74.00	27.44	Pass	V	PK
9	3220.0147	-18.41	57.60	39.19	74.00	34.81	Pass	V	PK
10	5375.1583	-11.68	49.30	37.62	74.00	36.38	Pass	V	PK
11	9486.4324	-0.57	43.85	43.28	74.00	30.72	Pass	V	PK
12	13721.7148	4.87	43.48	48.35	74.00	25.65	Pass	V	PK

Mode:			2.4G Slot 20MHz Transmitting			Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1266.0266	7.81	38.67	46.48	74.00	27.52	Pass	H	PK
2	1899.0899	8.96	37.51	46.47	74.00	27.53	Pass	H	PK
3	3253.0169	-18.26	59.60	41.34	74.00	32.66	Pass	H	PK
4	5361.1574	-11.73	48.83	37.10	74.00	36.90	Pass	H	PK
5	8182.3455	-3.68	46.83	43.15	74.00	30.85	Pass	H	PK
6	13724.715	4.83	43.58	48.41	74.00	25.59	Pass	H	PK
7	1440.8441	8.08	38.43	46.51	74.00	27.49	Pass	V	PK
8	2013.9014	9.07	37.43	46.50	74.00	27.50	Pass	V	PK
9	3254.0169	-18.26	55.34	37.08	74.00	36.92	Pass	V	PK
10	4910.1273	-13.45	50.90	37.45	74.00	36.55	Pass	V	PK
11	8108.3406	-2.85	46.10	43.25	74.00	30.75	Pass	V	PK
12	14209.7473	7.07	41.56	48.63	74.00	25.37	Pass	V	PK

Mode:			2.4G Slot 20MHz Transmitting			Channel:		2460 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1164.0164	7.61	39.36	46.97	74.00	27.03	Pass	H	PK
2	1983.6984	8.99	37.35	46.34	74.00	27.66	Pass	H	PK
3	3280.0187	-18.14	63.12	44.98	74.00	29.02	Pass	H	PK
4	5421.1614	-11.64	49.00	37.36	74.00	36.64	Pass	H	PK
5	9532.4355	-0.88	44.25	43.37	74.00	30.63	Pass	H	PK
6	14184.7456	7.19	40.97	48.16	74.00	25.84	Pass	H	PK
7	1278.6279	7.78	38.21	45.99	74.00	28.01	Pass	V	PK
8	1842.6843	8.67	37.60	46.27	74.00	27.73	Pass	V	PK
9	3280.0187	-18.14	57.15	39.01	74.00	34.99	Pass	V	PK
10	5192.1461	-12.29	49.57	37.28	74.00	36.72	Pass	V	PK
11	9569.438	-1.37	44.42	43.05	74.00	30.95	Pass	V	PK
12	13687.7125	5.23	43.61	48.84	74.00	25.16	Pass	V	PK

Mode:			2.4G Slot 40MHz Transmitting			Channel:		2425 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1308.8309	7.76	38.41	46.17	74.00	27.83	Pass	H	PK
2	1828.4828	8.60	37.59	46.19	74.00	27.81	Pass	H	PK
3	3233.0155	-18.35	62.23	43.88	74.00	30.12	Pass	H	PK
4	5330.1553	-11.85	48.71	36.86	74.00	37.14	Pass	H	PK
5	10208.4806	-1.46	44.76	43.30	74.00	30.70	Pass	H	PK
6	14208.7472	7.07	41.02	48.09	74.00	25.91	Pass	H	PK
7	1330.6331	7.88	38.34	46.22	74.00	27.78	Pass	V	PK
8	2071.1071	9.38	37.63	47.01	74.00	26.99	Pass	V	PK
9	3234.0156	-18.35	58.23	39.88	74.00	34.12	Pass	V	PK
10	5986.1991	-10.97	49.59	38.62	74.00	35.38	Pass	V	PK
11	9499.4333	-0.45	43.92	43.47	74.00	30.53	Pass	V	PK
12	13725.715	4.83	43.07	47.90	74.00	26.10	Pass	V	PK

Mode:			2.4G Slot 40MHz Transmitting			Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1212.4212	7.96	39.18	47.14	74.00	26.86	Pass	H	PK
2	1832.8833	8.63	37.85	46.48	74.00	27.52	Pass	H	PK
3	3253.0169	-18.26	55.95	37.69	74.00	36.31	Pass	H	PK
4	5763.1842	-11.56	49.15	37.59	74.00	36.41	Pass	H	PK
5	9469.4313	-0.74	43.84	43.10	74.00	30.90	Pass	H	PK
6	14723.7816	7.81	40.46	48.27	74.00	25.73	Pass	H	PK
7	1295.4295	7.73	38.73	46.46	74.00	27.54	Pass	V	PK
8	1827.2827	8.59	37.56	46.15	74.00	27.85	Pass	V	PK
9	3253.0169	-18.26	56.31	38.05	74.00	35.95	Pass	V	PK
10	5297.1531	-11.95	49.38	37.43	74.00	36.57	Pass	V	PK
11	9434.429	-1.09	44.24	43.15	74.00	30.85	Pass	V	PK
12	13679.712	5.33	43.55	48.88	74.00	25.12	Pass	V	PK

Mode:			2.4G Slot 40MHz Transmitting			Channel:		2450 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1090.009	7.01	39.17	46.18	74.00	27.82	Pass	H	PK
2	1876.2876	8.84	37.29	46.13	74.00	27.87	Pass	H	PK
3	3248.0165	-18.28	66.14	47.86	74.00	26.14	Pass	H	PK
4	4850.1233	-13.46	54.52	41.06	74.00	32.94	Pass	H	PK
5	7798.3199	-3.95	46.63	42.68	74.00	31.32	Pass	H	PK
6	13672.7115	5.41	43.27	48.68	74.00	25.32	Pass	H	PK
7	1203.2203	7.99	38.58	46.57	74.00	27.43	Pass	V	PK
8	1702.4702	8.52	37.71	46.23	74.00	27.77	Pass	V	PK
9	3267.0178	-18.20	56.19	37.99	74.00	36.01	Pass	V	PK
10	4303.0869	-15.22	56.90	41.68	74.00	32.32	Pass	V	PK
11	7873.3249	-3.99	46.34	42.35	74.00	31.65	Pass	V	PK
12	13677.7118	5.35	42.92	48.27	74.00	25.73	Pass	V	PK

Remark:

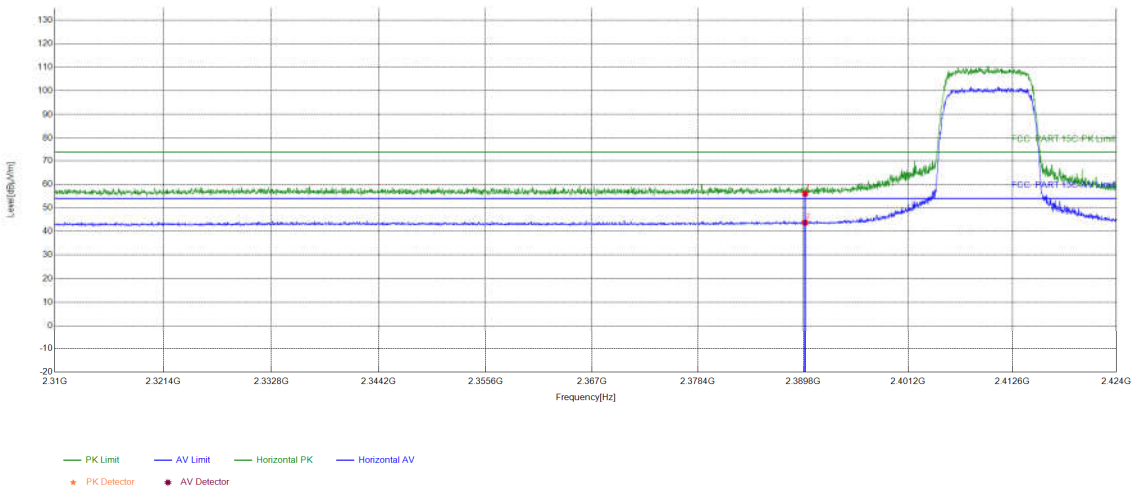
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz 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:

Test_Mode	2.4G Slot 10MHz	Test_Frequency	2410MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

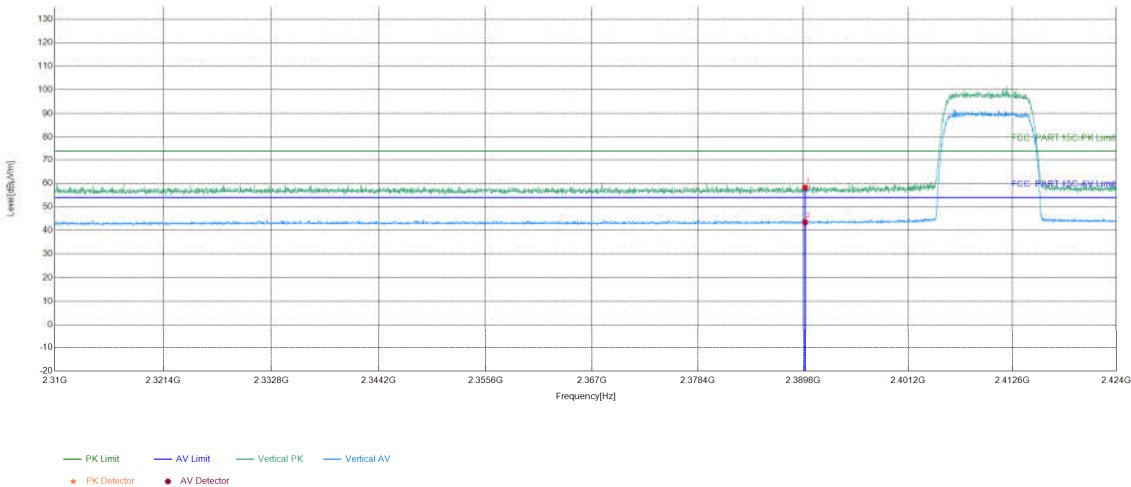
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	19.56	36.49	56.05	74.00	17.95	PASS	Horizontal	PK
2	2390	19.56	24.17	43.73	54.00	10.27	PASS	Horizontal	AV

Test_Mode	2.4G Slot 10MHz	Test_Frequency	2410MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

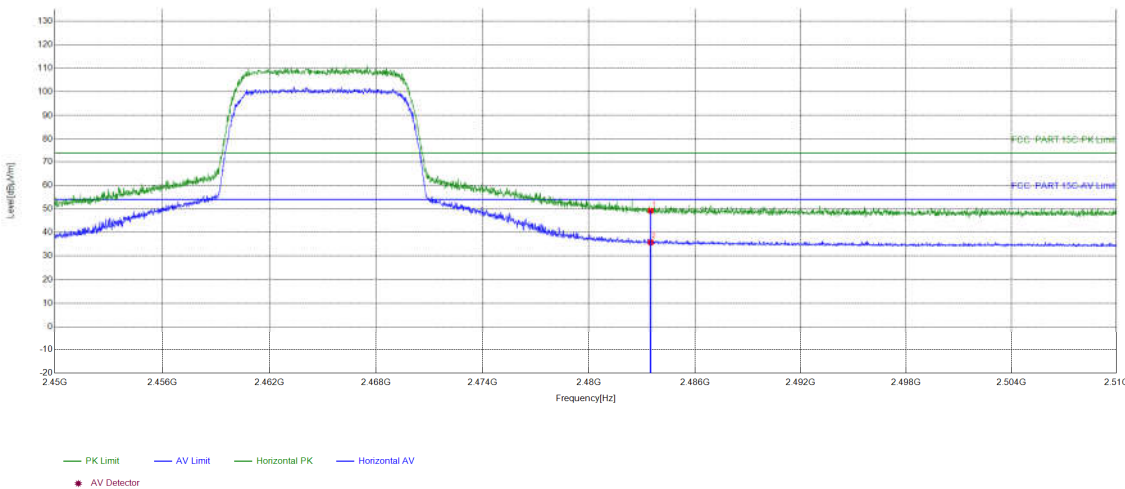
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	19.56	38.64	58.20	74.00	15.80	PASS	Vertical	PK
2	2390	19.56	23.94	43.50	54.00	10.50	PASS	Vertical	AV

Test_Mode	2.4G Slot 10MHz	Test_Frequency	2465MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

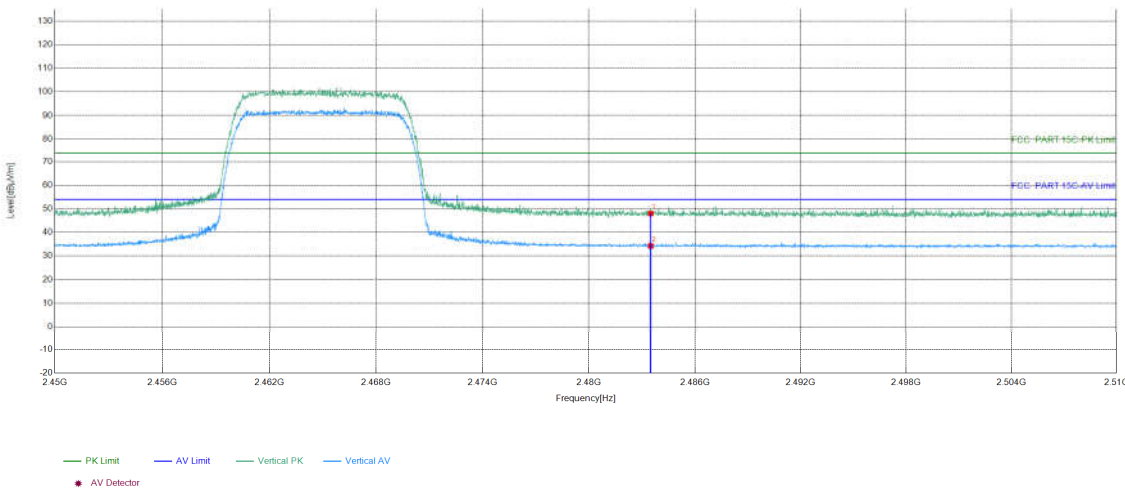
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	38.84	49.22	74.00	24.78	PASS	Horizontal	PK
2	2483.5	10.38	25.41	35.79	54.00	18.21	PASS	Horizontal	AV

Test_Mode	2.4G Slot 10MHz	Test_Frequency	2465MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

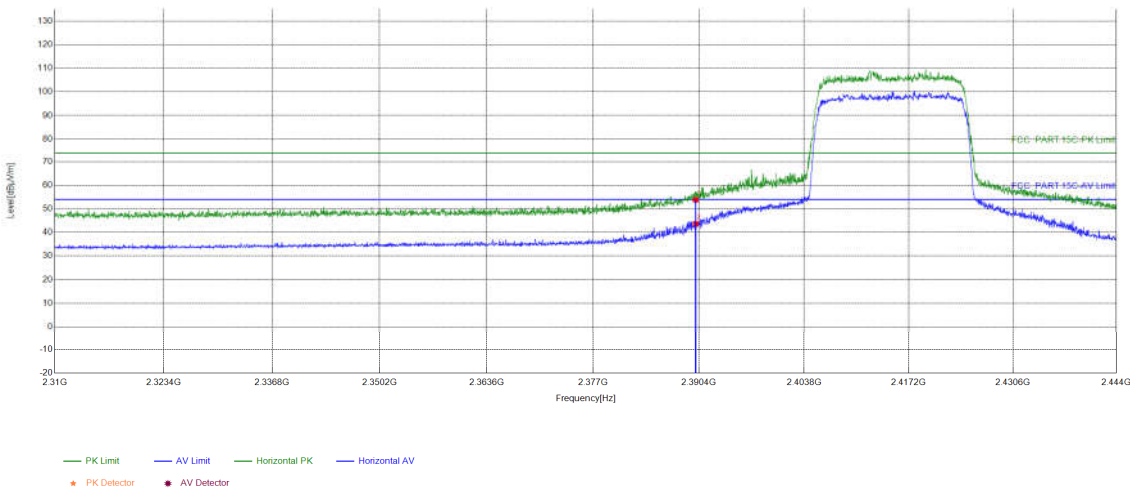
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	37.66	48.04	74.00	25.96	PASS	Vertical	PK
2	2483.5	10.38	23.88	34.26	54.00	19.74	PASS	Vertical	AV

Test_Mode	2.4G Slot 20MHz	Test_Frequency	2415MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

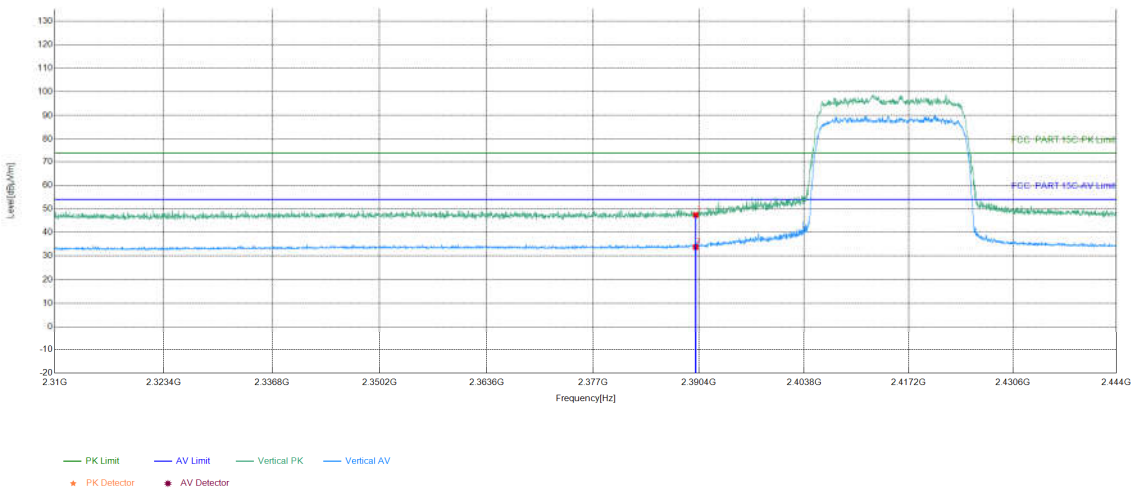
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	9.96	43.89	53.85	74.00	20.15	PASS	Horizontal	PK
2	2390	9.96	33.67	43.63	54.00	10.37	PASS	Horizontal	AV

Test_Mode	2.4G Slot 20MHz	Test_Frequency	2415MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

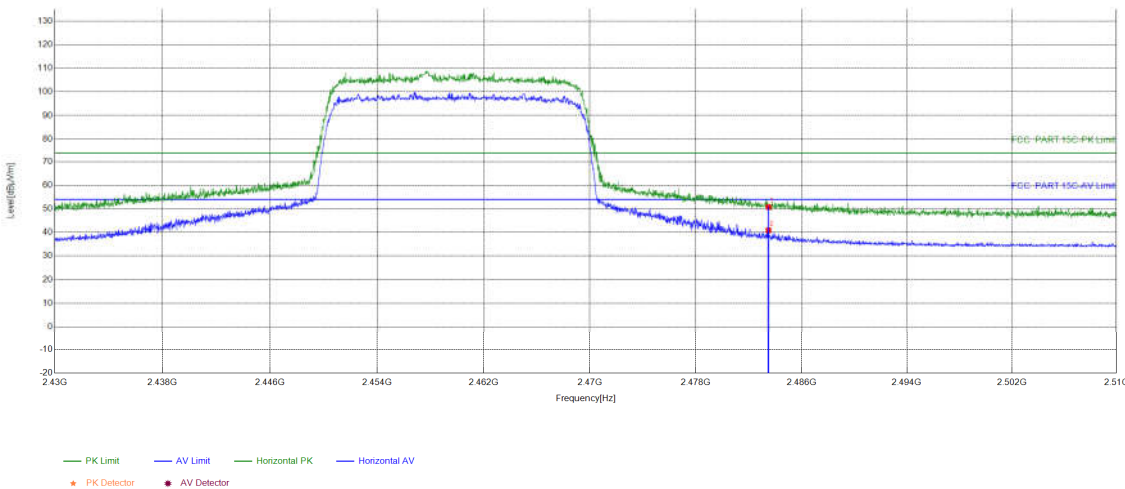
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	9.96	37.44	47.40	74.00	26.60	PASS	Vertical	PK
2	2390	9.96	23.86	33.82	54.00	20.18	PASS	Vertical	AV

Test_Mode	2.4G Slot 20MHz	Test_Frequency	2460MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

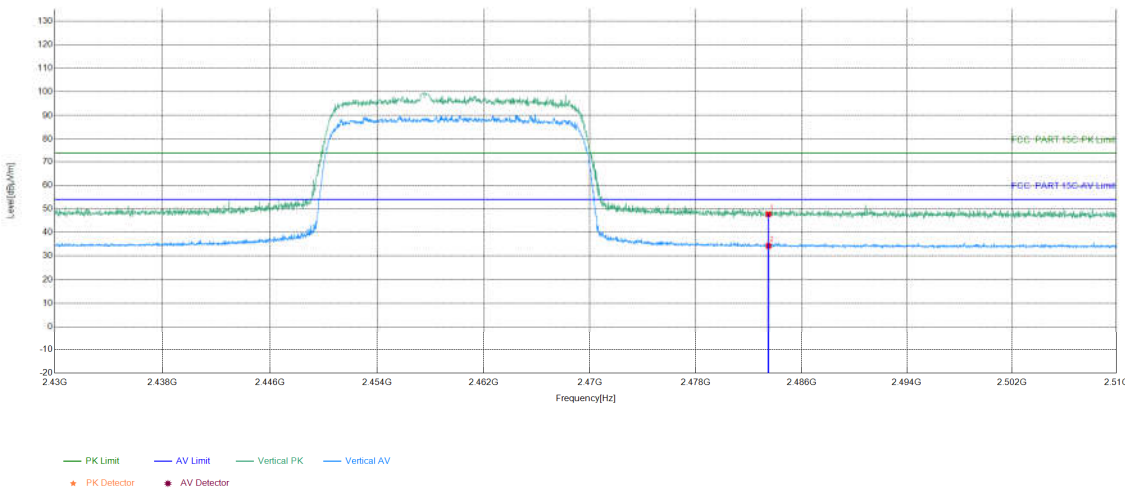
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	40.43	50.81	74.00	23.19	PASS	Horizontal	PK
2	2483.5	10.38	30.51	40.89	54.00	13.11	PASS	Horizontal	AV

Test_Mode	2.4G Slot 20MHz	Test_Frequency	2460MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

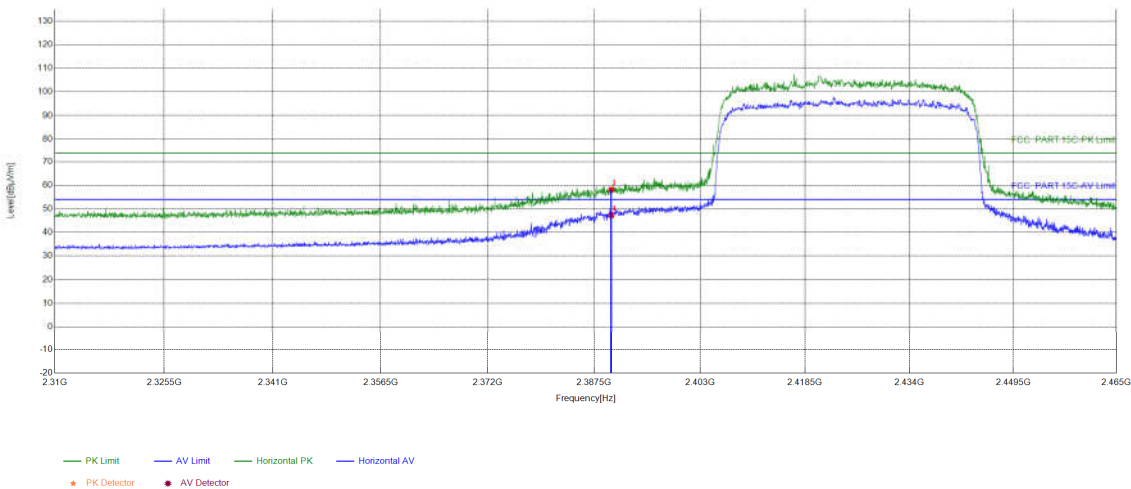
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	37.37	47.75	74.00	26.25	PASS	Vertical	PK
2	2483.5	10.38	23.95	34.33	54.00	19.67	PASS	Vertical	AV

Test_Mode	2.4G Slot 40MHz	Test_Frequency	2425MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

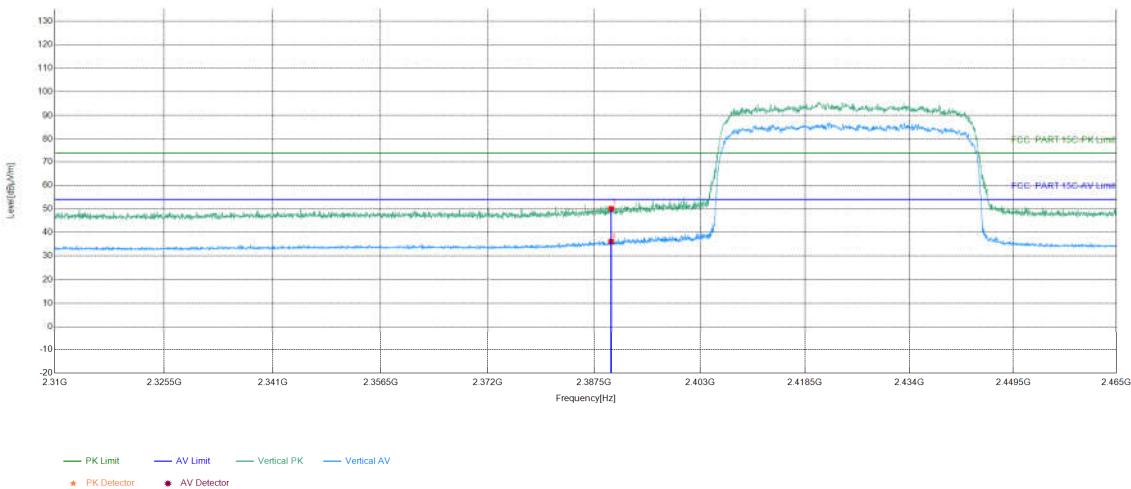
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	9.96	48.17	58.13	74.00	15.87	PASS	Horizontal	PK
2	2390	9.96	48.17	58.13	74.00	15.87	PASS	Horizontal	PK
3	2390	9.96	37.33	47.29	54.00	6.71	PASS	Horizontal	AV
4	2390	9.96	37.33	47.29	54.00	6.71	PASS	Horizontal	AV

Test_Mode	2.4G Slot 40MHz	Test_Frequency	2425MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

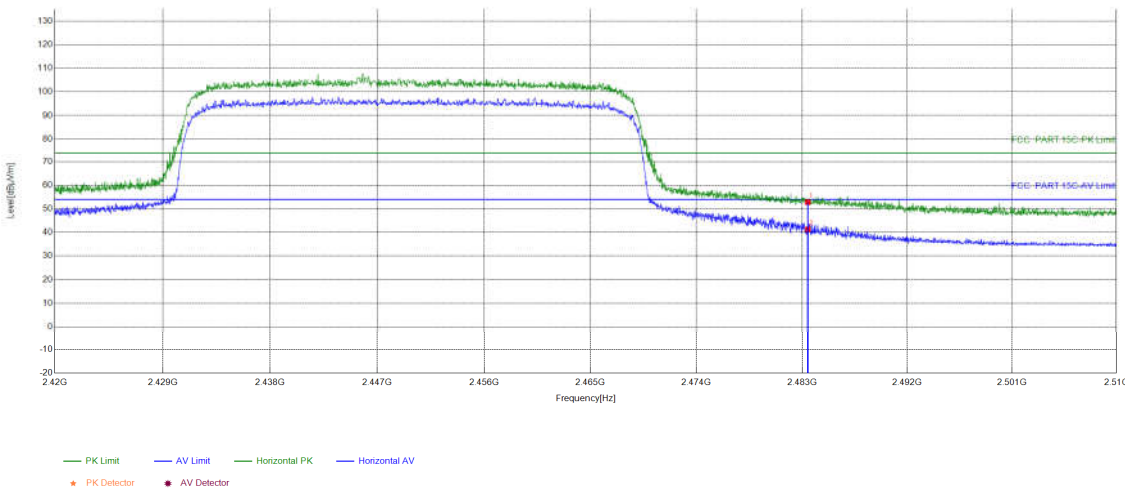
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	9.96	40.13	50.09	74.00	23.91	PASS	Vertical	PK
2	2390	9.96	26.20	36.16	54.00	17.84	PASS	Vertical	AV

Test_Mode	2.4G Slot 40MHz	Test_Frequency	2450MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

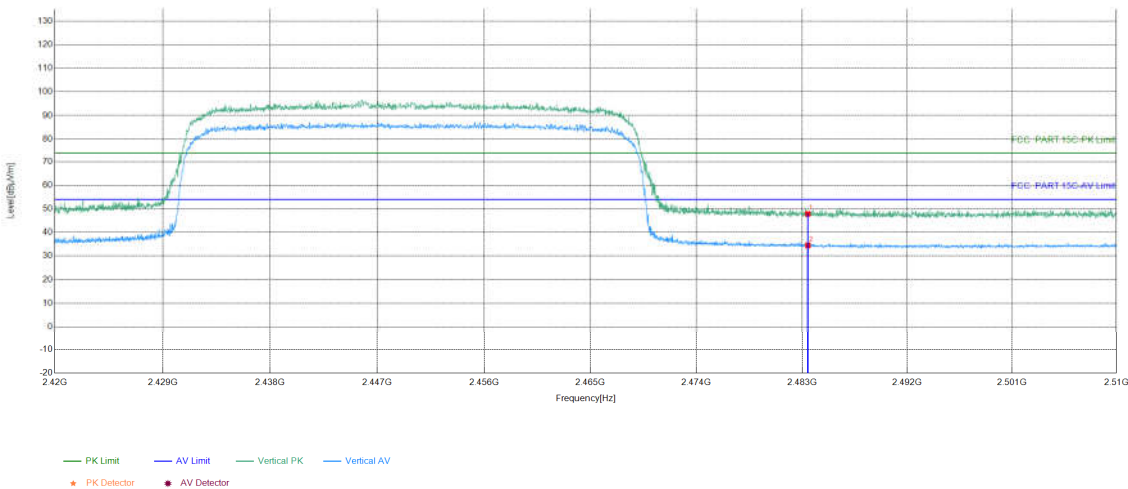
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	42.45	52.83	74.00	21.17	PASS	Horizontal	PK
2	2483.5	10.38	30.93	41.31	54.00	12.69	PASS	Horizontal	AV

Test_Mode	2.4G Slot 40MHz	Test_Frequency	2450MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/02
Remark	\		

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	10.38	37.49	47.87	74.00	26.13	PASS	Vertical	PK
2	2483.5	10.38	24.11	34.49	54.00	19.51	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

8 Appendix 2.4G

Refer to Appendix: 2.4G of EED32Q80130801