TEST REPORT

Product	:	UAV Automatic Docking Station
Trade mark	:	N/A
Model/Type reference	:	K01
Serial Number	:	N/A
Report Number	:	EED32Q80130802
FCC ID	:	2A8WC-K01
Date of Issue	:	Mar. 25, 2024
Test Standards	:	47 CFR Part 15 Subpart E
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:

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:	mark. chen.	Reviewed by:	Frazer. Li
	Mark Chen		Frazer Li
Approved by:	Aaron Ma	Date:	Mar. 25, 2024
	Aaron Ma		

Check No.: 4546171123

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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	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	N/A
Duty Cycle	47 CFR Part 15 Subpart E Section 15.407	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
26dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
99% Occupied bandwidth	\	PASS
6dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (e)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	PASS
Radiated Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Radiated Emissions which fall in the restricted bands	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Remark: 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
Type of Modulation:	OFDM
Operating Frequency	5G Slot 10MHz: 5745MHz-5825MHz; 5G Slot 20MHz: 5745MHz-5825MHz; 5G Slot 40MHz: 5755MHz-5795MHz;
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
5G Slot 10MHz	5745MHz
	5765MHz
	5805MHz
	5825MHz
5G Slot 20MHz	5745MHz
	5765MHz
	5805MHz
	5825MHz
5G Slot 40MHz	5755MHz
	5795MHz

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:	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:		
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
Temperature:	NT (Normal Temperature)	22~25.0 °C
	LT (Low Temperature)	-35 °C
	HT (High Temperature)	60.0 °C
Working Voltage of the EUT:	NV (Normal Voltage)	DC 24 V
	LV (Low Voltage)	DC15 V
	HV (High Voltage)	DC30 V

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 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	12-14-2023	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 Extendder	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	maturo	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	---	---

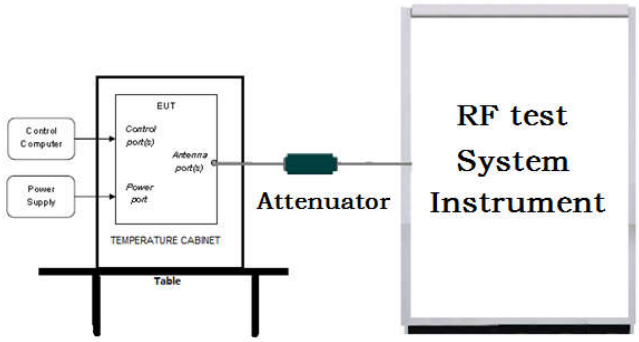
3M full-anechoic Chamber					
Equipment	**Manufacturer**	**Model No.**	**Serial Number**	**Cal. Date (mm-dd-yyyy)**	**Cal. Due date (mm-dd-yyyy)**
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025
Spectrum Analyzer	Keysight	N9020B	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 Radio Technical Requirements Specification

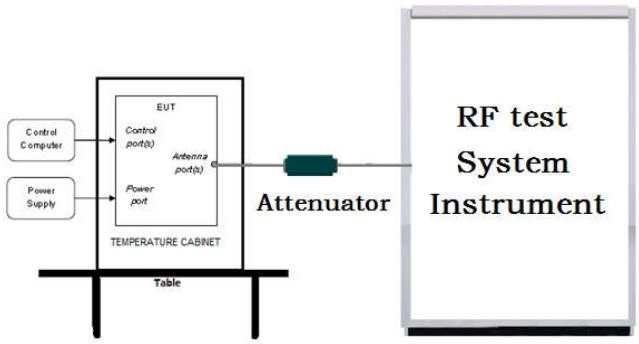
7.1 Antenna Requirement

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 external antenna. The best case gain of the antenna is 5dBi.	

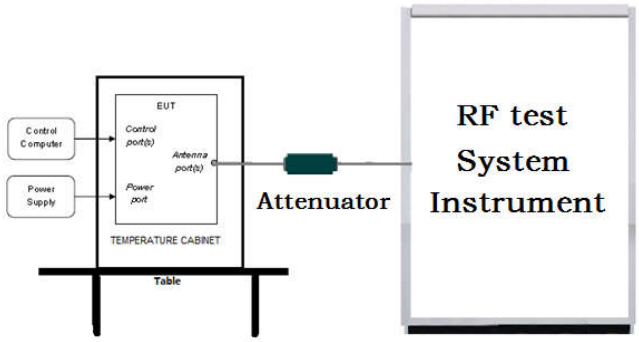
7.2 Maximum Conducted Output Power

<table>
<tr><td>Test Requirement:</td><td>47 CFR Part 15C Section 15.407 (a)</td></tr>
<tr><td>Test Method:</td><td>KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td>Test Procedure:</td><td>1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.</td></tr>
<tr><td>Limit:</td><td><table>
<tr><td>Frequency band (MHz)</td><td>Limit</td></tr>
<tr><td rowspan="2">5150-5250</td><td>≤1W(30dBm) for master device</td></tr>
<tr><td>≤250mW(24dBm) for client device</td></tr>
<tr><td>5250-5350</td><td>≤250mW(24dBm) for client device or 11dBm+10logB*</td></tr>
<tr><td>5470-5725</td><td>≤250mW(24dBm) for client device or 11dBm+10logB*</td></tr>
<tr><td>5725-5850</td><td>≤1W(30dBm)</td></tr>
<tr><td>Remark:</td><td>* Where B is the 26dB emission bandwidth in MHz
The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</td></tr>
</table></td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Test Results:</td><td>Refer to Appendix 5.8G</td></tr>
</table>

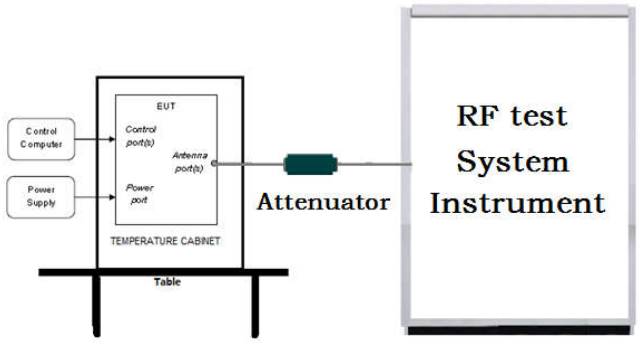
7.3 6dB Emisson Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Limit:	≥ 500 kHz
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix 5.8G

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 5.8G

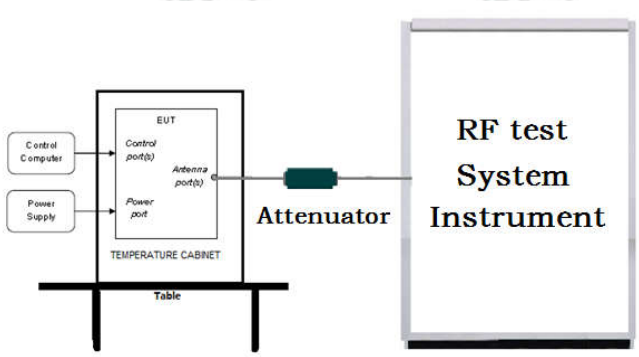
7.5 Maximum Power Spectral Density

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:	1. 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. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level.
Limit:	

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 5.8G

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 5.8G

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*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[dBμV/m] + 20 log(d[meters]) - 104.77 (iii) Or, if d is 3 meters: EIRP[dBm] = E[dBμV/m] - 95.2
Test Setup:	

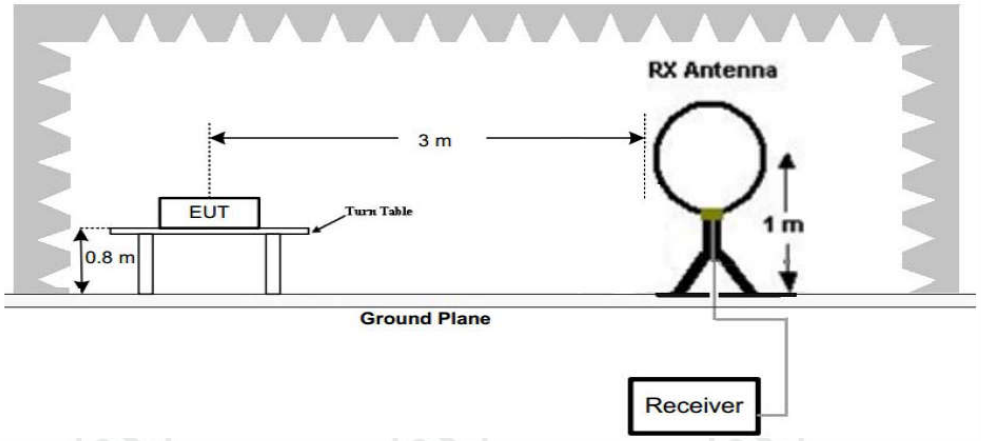


Figure 1. Below 30MHz

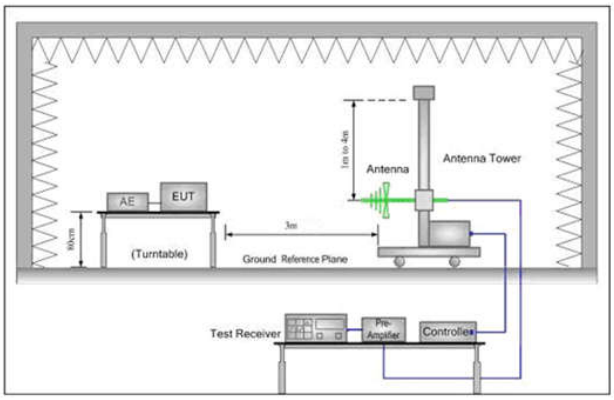


Figure 2. 30MHz to 1GHz

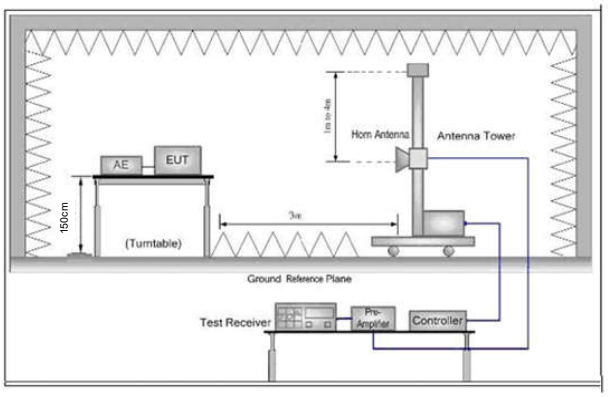


Figure 3. Above 1 GHz

Test Procedure:	a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic 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 1.5 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:

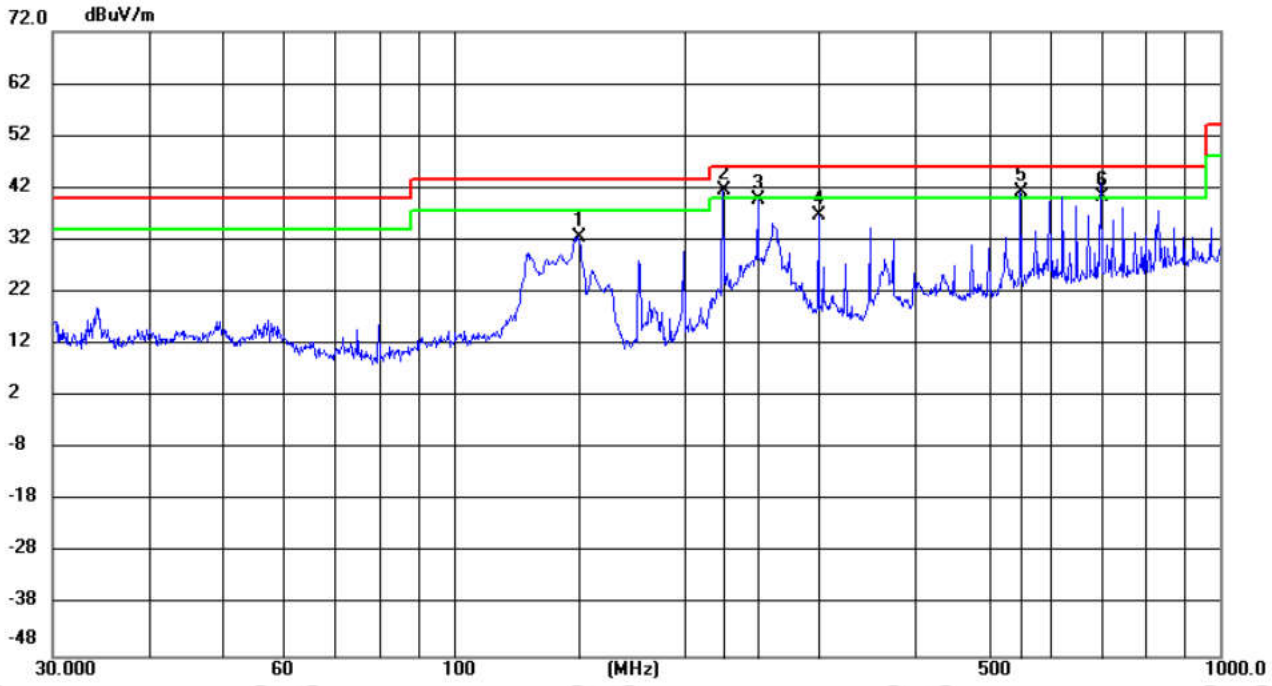
	Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. 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 5G Slot 10MHz was recorded in the report.

Horizontal:

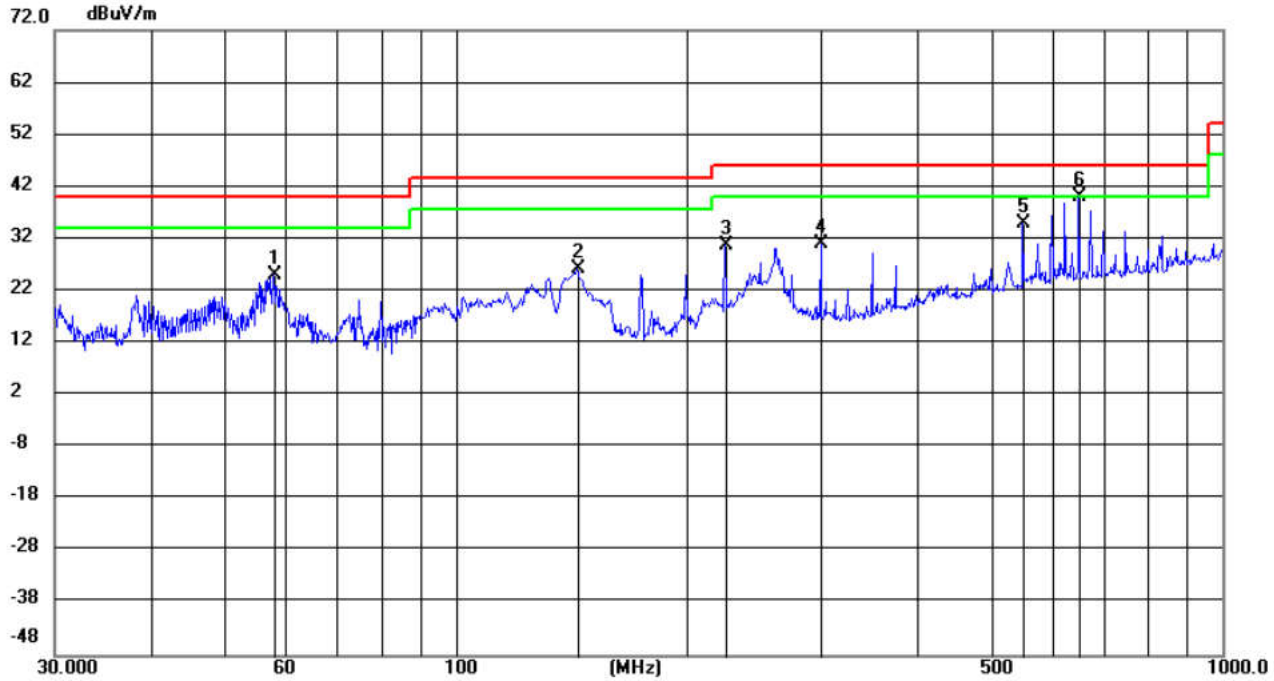
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		145.5545	22.91	9.65	32.56	43.50	-10.94	QP	199	126	
2	*	224.9921	27.98	13.69	41.67	46.00	-4.33	QP	100	82	
3		250.0380	24.94	14.69	39.63	46.00	-6.37	QP	100	123	
4		299.9988	20.00	16.67	36.67	46.00	-9.33	QP	100	51	
5	!	550.0793	19.05	22.22	41.27	46.00	-4.73	QP	199	72	
6	!	700.0406	16.01	24.21	40.22	46.00	-5.78	QP	100	92	

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	Comment
1		57.8977	11.61	13.46	25.07	40.00	-14.93	QP	100	318	
2		144.1072	16.74	9.64	26.38	43.50	-17.12	QP	100	359	
3		224.9922	17.17	13.69	30.86	46.00	-15.14	QP	100	329	
4		299.9988	14.41	16.67	31.08	46.00	-14.92	QP	200	99	
5		549.9827	12.60	22.21	34.81	46.00	-11.19	QP	200	78	
6	*	650.0015	16.20	23.86	40.06	46.00	-5.94	QP	100	7	

Transmitter Emission above 1GHz

Mode:		5.8G Slot 10MHz Transmitting				Channel:		5745MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1677.6678	8.37	37.21	45.58	68.20	22.62	PASS	Horizontal	PK
2	2024.7525	9.39	37.65	47.04	68.20	21.16	PASS	Horizontal	PK
3	3048.4048	12.65	36.52	49.17	68.20	19.03	PASS	Horizontal	PK
4	7729.0486	-4.79	48.52	43.73	68.20	24.47	PASS	Horizontal	PK
5	10956.9305	0.46	46.66	47.12	68.20	21.08	PASS	Horizontal	PK
6	14792.0528	7.40	42.57	49.97	68.20	18.23	PASS	Horizontal	PK
7	1698.5699	8.27	36.70	44.97	68.20	23.23	PASS	Vertical	PK
8	2675.4675	11.81	37.37	49.18	68.20	19.02	PASS	Vertical	PK
9	4071.5072	15.46	34.54	50.00	68.20	18.20	PASS	Vertical	PK
10	7410.094	-6.54	49.33	42.79	68.20	25.41	PASS	Vertical	PK
11	10974.565	0.49	46.00	46.49	68.20	21.71	PASS	Vertical	PK
12	14184.8123	7.06	44.10	51.16	68.20	17.04	PASS	Vertical	PK

Mode:		5.8G Slot 10MHz Transmitting				Channel:		5765MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1584.7085	8.62	36.86	45.48	68.20	22.72	PASS	Horizontal	PK
2	2469.747	11.06	37.05	48.11	68.20	20.09	PASS	Horizontal	PK
3	3565.4565	13.59	36.03	49.62	68.20	18.58	PASS	Horizontal	PK
4	7758.9506	-4.39	47.90	43.51	68.20	24.69	PASS	Horizontal	PK
5	10100.5067	-0.61	46.12	45.51	68.20	22.69	PASS	Horizontal	PK
6	14812.7542	7.12	43.17	50.29	68.20	17.91	PASS	Horizontal	PK
7	1672.7173	8.40	39.66	48.06	68.20	20.14	PASS	Vertical	PK
8	2712.3212	11.85	37.78	49.63	68.20	18.57	PASS	Vertical	PK
9	3595.7096	13.46	35.59	49.05	68.20	19.15	PASS	Vertical	PK
10	8462.0308	-4.17	48.23	44.06	68.20	24.14	PASS	Vertical	PK
11	11130.9754	-0.25	46.91	46.66	68.20	21.54	PASS	Vertical	PK
12	14320.5214	6.12	45.61	51.73	68.20	16.47	PASS	Vertical	PK

Mode:		5.8G Slot 10MHz Transmitting				Channel:		5825MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1641.3641	8.55	37.18	45.73	68.20	22.47	PASS	Horizontal	PK
2	2782.1782	12.02	37.12	49.14	68.20	19.06	PASS	Horizontal	PK
3	3758.5259	14.26	37.65	51.91	68.20	16.29	PASS	Horizontal	PK
4	7876.2584	-4.05	48.08	44.03	68.20	24.17	PASS	Horizontal	PK
5	13103.7402	2.42	44.91	47.33	68.20	20.87	PASS	Horizontal	PK
6	15196.8798	7.25	42.84	50.09	68.20	18.11	PASS	Horizontal	PK
7	1777.7778	8.17	37.29	45.46	68.20	22.74	PASS	Vertical	PK
8	2735.9736	11.91	36.61	48.52	68.20	19.68	PASS	Vertical	PK
9	3493.9494	13.82	37.56	51.38	68.20	16.82	PASS	Vertical	PK
10	7827.9552	-3.92	47.70	43.78	68.20	24.42	PASS	Vertical	PK
11	11642.3762	0.52	45.67	46.19	68.20	22.01	PASS	Vertical	PK
12	14847.2565	6.51	43.03	49.54	68.20	18.66	PASS	Vertical	PK

Mode:		5.8G Slot 20MHz Transmitting				Channel:		5745MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1629.2629	8.61	38.14	46.75	68.20	21.45	PASS	Horizontal	PK
2	2711.7712	11.85	37.10	48.95	68.20	19.25	PASS	Horizontal	PK
3	3739.824	14.18	35.08	49.26	68.20	18.94	PASS	Horizontal	PK
4	7822.5882	-3.90	48.30	44.40	68.20	23.80	PASS	Horizontal	PK
5	11540.4027	0.77	45.71	46.48	68.20	21.72	PASS	Horizontal	PK
6	14145.7097	7.25	42.74	49.99	68.20	18.21	PASS	Horizontal	PK
7	1635.8636	8.58	37.24	45.82	68.20	22.38	PASS	Vertical	PK
8	2704.6205	11.85	36.41	48.26	68.20	19.94	PASS	Vertical	PK
9	3947.1947	14.96	35.22	50.18	68.20	18.02	PASS	Vertical	PK
10	8123.9083	-3.41	47.15	43.74	68.20	24.46	PASS	Vertical	PK
11	10121.2081	-0.75	46.20	45.45	68.20	22.75	PASS	Vertical	PK
12	14116.5744	7.39	42.71	50.10	68.20	18.10	PASS	Vertical	PK

Mode:		5.8G Slot 20MHz Transmitting				Channel:		5765MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1648.5149	8.51	37.82	46.33	68.20	21.87	PASS	Horizontal	PK
2	2411.4411	10.78	38.57	49.35	68.20	18.85	PASS	Horizontal	PK
3	3559.956	13.60	36.01	49.61	68.20	18.59	PASS	Horizontal	PK
4	7704.5136	-5.12	47.71	42.59	68.20	25.61	PASS	Horizontal	PK
5	9579.9053	-1.45	46.38	44.93	68.20	23.27	PASS	Horizontal	PK
6	11592.5395	0.77	46.01	46.78	68.20	21.42	PASS	Horizontal	PK
7	1394.9395	8.08	38.28	46.36	68.20	21.84	PASS	Vertical	PK
8	2036.3036	9.44	37.36	46.80	68.20	21.40	PASS	Vertical	PK
9	3283.8284	13.21	36.21	49.42	68.20	18.78	PASS	Vertical	PK
10	7845.5897	-3.96	48.32	44.36	68.20	23.84	PASS	Vertical	PK
11	11677.6452	0.32	46.40	46.72	68.20	21.48	PASS	Vertical	PK
12	14128.8419	7.33	43.22	50.55	68.20	17.65	PASS	Vertical	PK

Mode:		5.8G Slot 20MHz Transmitting				Channel:		5825MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1690.8691	8.31	37.06	45.37	68.20	22.83	PASS	Horizontal	PK
2	2594.6095	11.71	36.61	48.32	68.20	19.88	PASS	Horizontal	PK
3	3984.0484	15.26	34.87	50.13	68.20	18.07	PASS	Horizontal	PK
4	7469.1313	-6.22	49.09	42.87	68.20	25.33	PASS	Horizontal	PK
5	10222.4148	-1.31	46.59	45.28	68.20	22.92	PASS	Horizontal	PK
6	14101.2401	7.47	42.53	50.00	68.20	18.20	PASS	Horizontal	PK
7	1615.5116	8.68	37.42	46.10	68.20	22.10	PASS	Vertical	PK
8	2672.7173	11.81	36.62	48.43	68.20	19.77	PASS	Vertical	PK
9	4210.121	16.32	33.65	49.97	68.20	18.23	PASS	Vertical	PK
10	8516.4678	-4.00	47.94	43.94	68.20	24.26	PASS	Vertical	PK
11	11972.0648	-0.29	47.39	47.10	68.20	21.10	PASS	Vertical	PK
12	14279.8853	6.39	44.02	50.41	68.20	17.79	PASS	Vertical	PK

Mode:		5.8G Slot 40MHz Transmitting				Channel:		5755MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1712.3212	8.25	37.30	45.55	68.20	22.65	PASS	Horizontal	PK
2	2534.6535	11.39	36.92	48.31	68.20	19.89	PASS	Horizontal	PK
3	3958.1958	15.05	35.93	50.98	68.20	17.22	PASS	Horizontal	PK
4	7377.8919	-6.53	48.90	42.37	68.20	25.83	PASS	Horizontal	PK
5	10526.0351	-0.41	45.72	45.31	68.20	22.89	PASS	Horizontal	PK
6	14762.1508	7.58	42.79	50.37	68.20	17.83	PASS	Horizontal	PK
7	1625.4125	8.63	37.07	45.70	68.20	22.50	PASS	Vertical	PK
8	2555.0055	11.51	36.61	48.12	68.20	20.08	PASS	Vertical	PK
9	3961.4962	15.08	34.42	49.50	68.20	18.70	PASS	Vertical	PK
10	7745.1497	-4.57	47.62	43.05	68.20	25.15	PASS	Vertical	PK
11	10226.2484	-1.31	46.83	45.52	68.20	22.68	PASS	Vertical	PK
12	14127.3085	7.33	43.11	50.44	68.20	17.76	PASS	Vertical	PK

Mode:		5.8G Slot 40MHz Transmitting				Channel:		5795MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1804.7305	8.17	37.69	45.86	68.20	22.34	PASS	Horizontal	PK
2	3211.2211	12.87	36.29	49.16	68.20	19.04	PASS	Horizontal	PK
3	4663.9164	17.75	33.40	51.15	68.20	17.05	PASS	Horizontal	PK
4	8539.4693	-3.90	47.64	43.74	68.20	24.46	PASS	Horizontal	PK
5	10591.2061	-0.49	46.97	46.48	68.20	21.72	PASS	Horizontal	PK
6	12837.6892	1.82	44.82	46.64	68.20	21.56	PASS	Horizontal	PK
7	1549.505	8.27	36.65	44.92	68.20	23.28	PASS	Vertical	PK
8	2553.3553	11.49	37.57	49.06	68.20	19.14	PASS	Vertical	PK
9	3540.7041	13.69	35.44	49.13	68.20	19.07	PASS	Vertical	PK
10	8895.9931	-3.02	48.12	45.10	68.20	23.10	PASS	Vertical	PK
11	10861.8575	0.03	46.36	46.39	68.20	21.81	PASS	Vertical	PK
12	14332.0221	6.07	43.78	49.85	68.20	18.35	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.

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*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[dBμV/m] + 20 log(d[meters]) - 104.77 (iii) Or, if d is 3 meters: EIRP[dBm] = E[dBμV/m] - 95.2
Test Setup:	

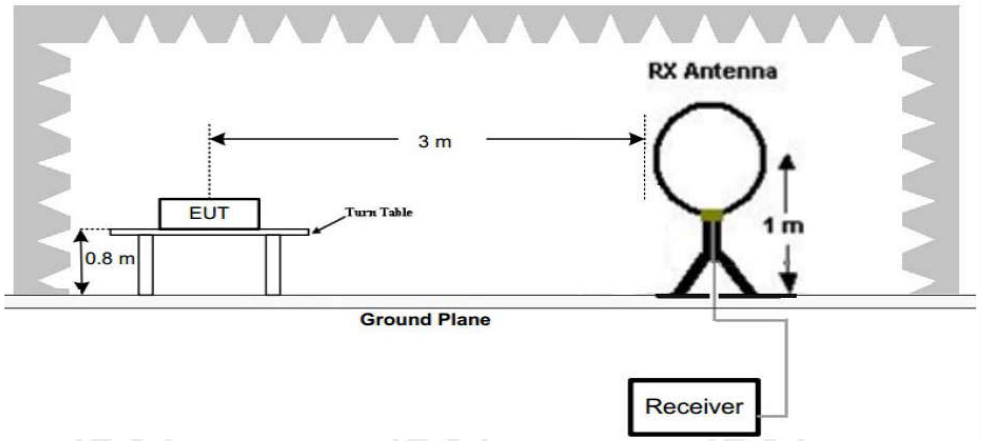


Figure 1. Below 30MHz

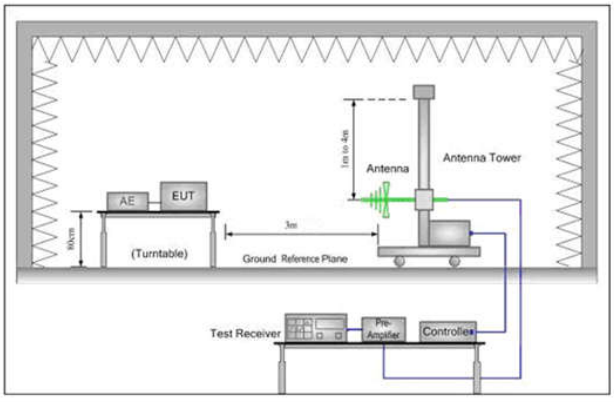


Figure 2. 30MHz to 1GHz

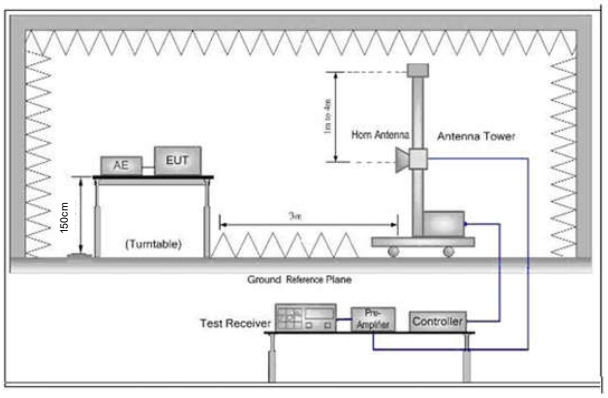


Figure 3. Above 1 GHz

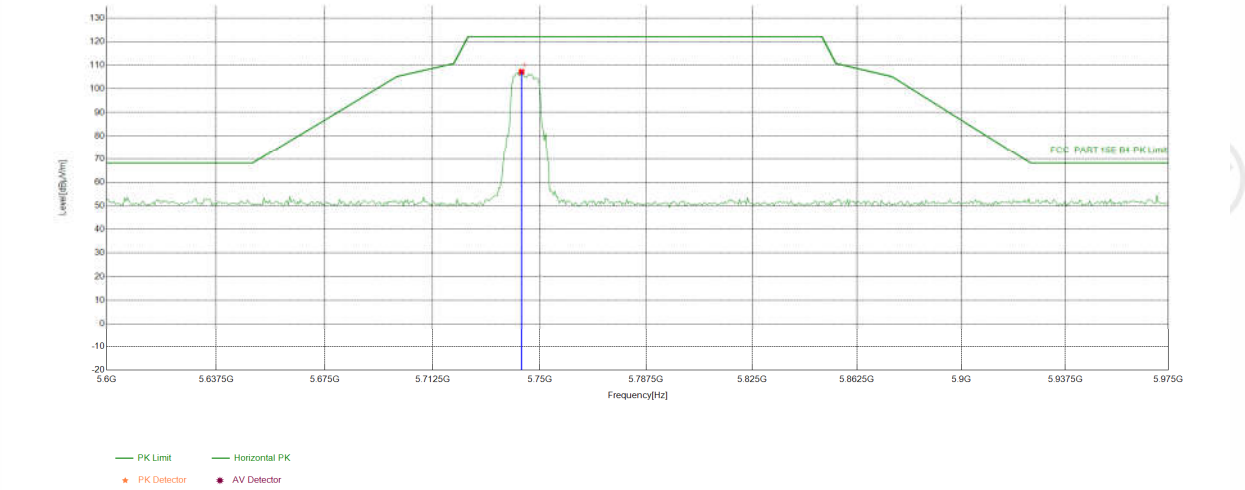
Test Procedure:	j. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters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

Test Data:

Test_Mode	5.8G Slot 10MHz	Test_Frequency	5745MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

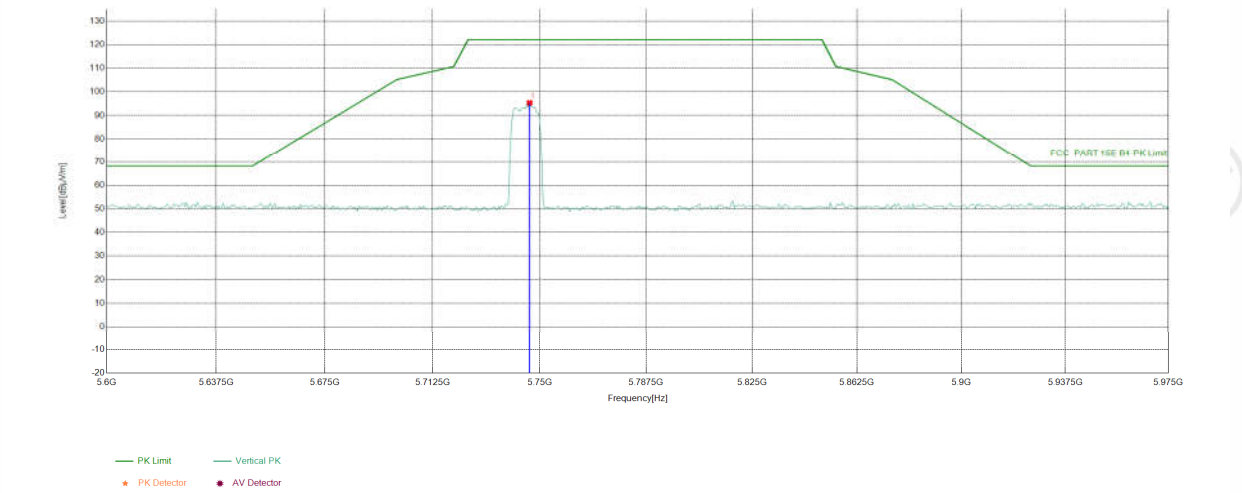
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5743.61	18.64	88.58	107.22	122.20	14.98	PASS	Horizontal	PK

Test_Mode	5.8G Slot 10MHz	Test_Frequency	5745MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

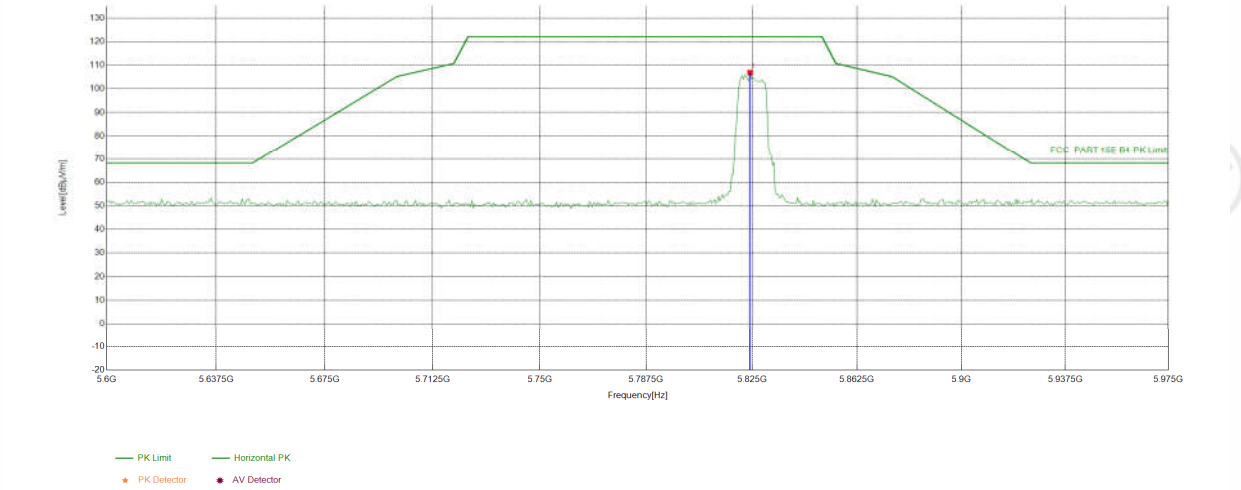
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5746.43	18.64	76.71	95.35	122.20	26.85	PASS	Vertical	PK

Test_Mode	5.8G Slot 10MHz	Test_Frequency	5825MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

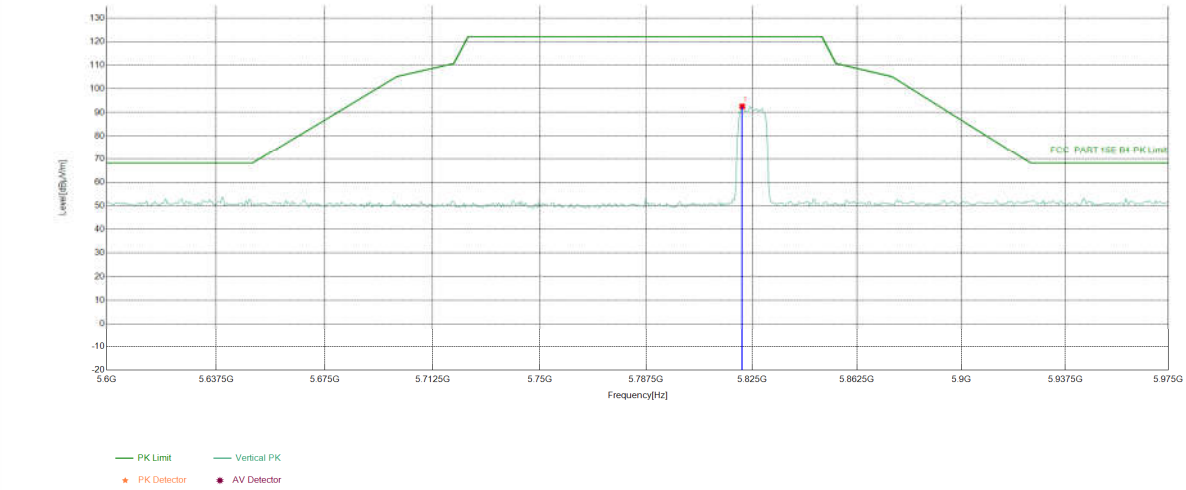
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5824.34	18.86	88.05	106.91	122.20	15.29	PASS	Horizontal	PK

Test_Mode	5.8G Slot 10MHz	Test_Frequency	5825MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

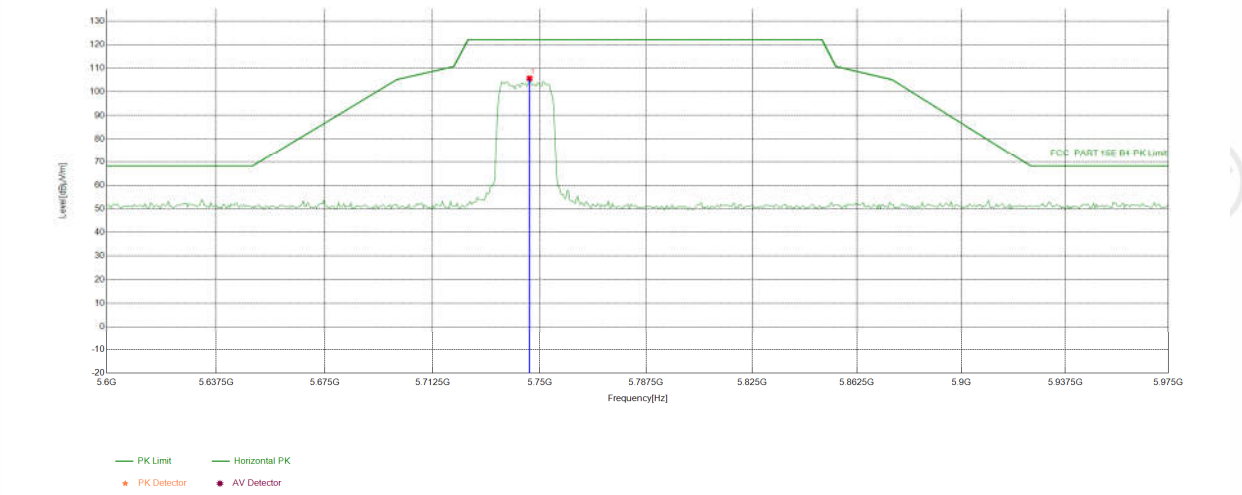
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5821.52	18.85	73.77	92.62	122.20	29.58	PASS	Vertical	PK

Test_Mode	5.8G Slot 20MHz	Test_Frequency	5745MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

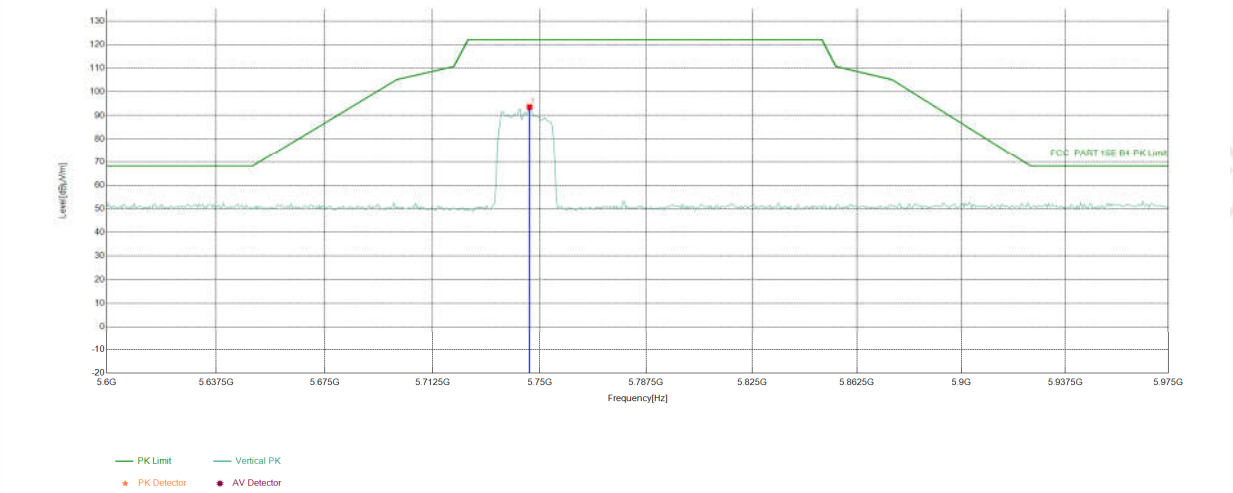
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5746.43	18.64	87.13	105.77	122.20	16.43	PASS	Horizontal	PK

Test_Mode	5.8G Slot 20MHz	Test_Frequency	5745MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

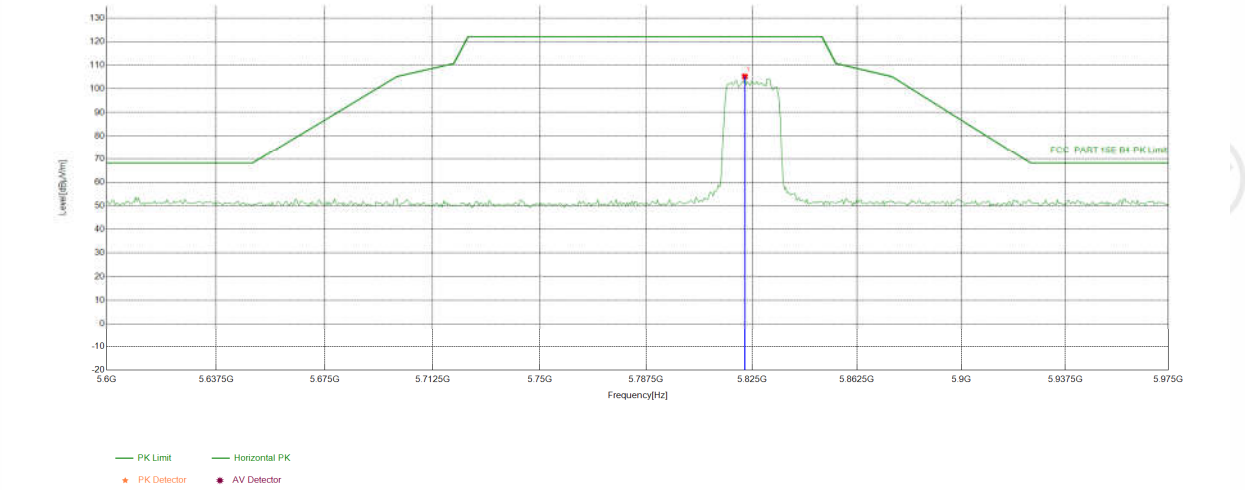
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5746.43	18.64	74.96	93.60	122.20	28.60	PASS	Vertical	PK

Test_Mode	5.8G Slot 20MHz	Test_Frequency	5825MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

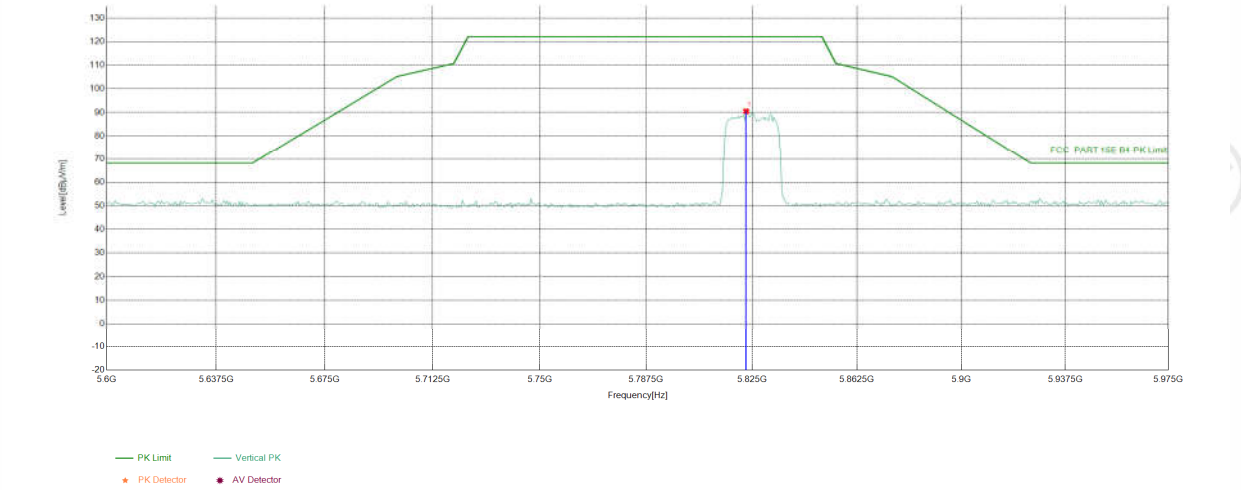
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5822.46	18.86	86.44	105.30	122.20	16.90	PASS	Horizontal	PK

Test_Mode	5.8G Slot 20MHz	Test_Frequency	5825MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

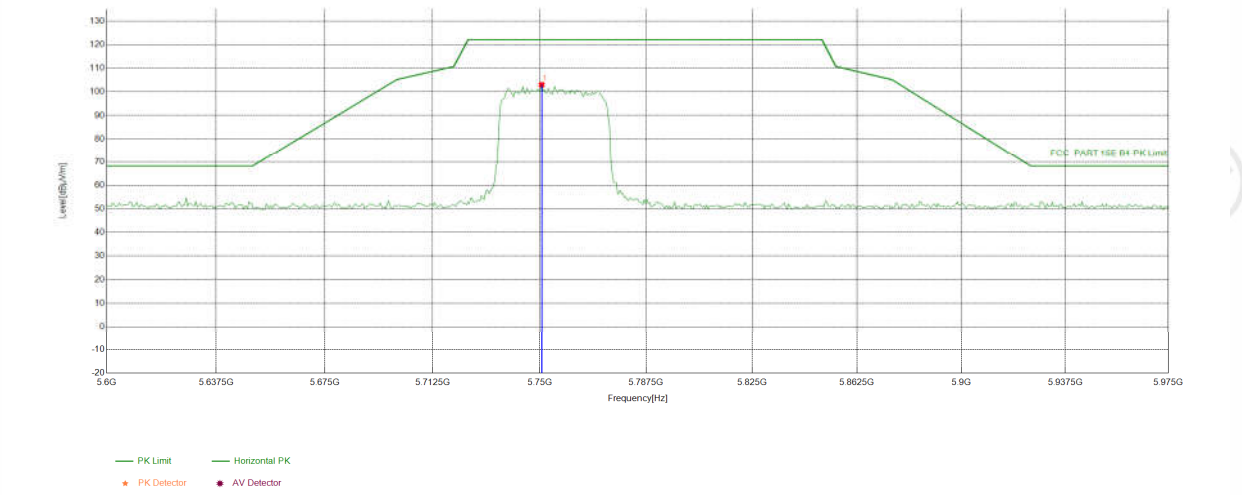
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5822.93	18.86	71.66	90.52	122.20	31.68	PASS	Vertical	PK

Test_Mode	5.8G Slot 40MHz	Test_Frequency	5755MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

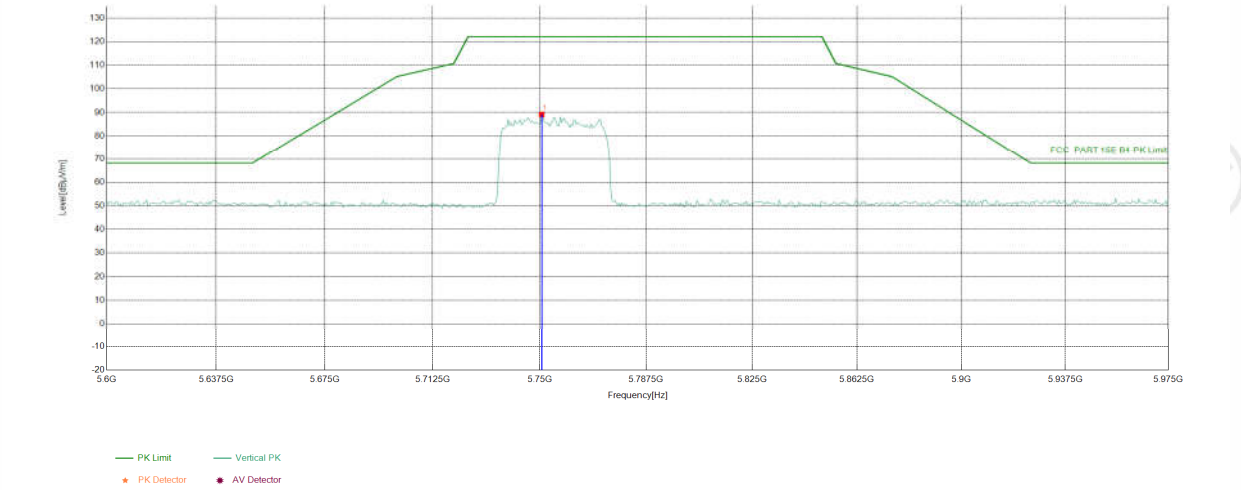
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5750.65	18.66	84.39	103.05	122.20	19.15	PASS	Horizontal	PK

Test_Mode	5.8G Slot 40MHz	Test_Frequency	5755MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

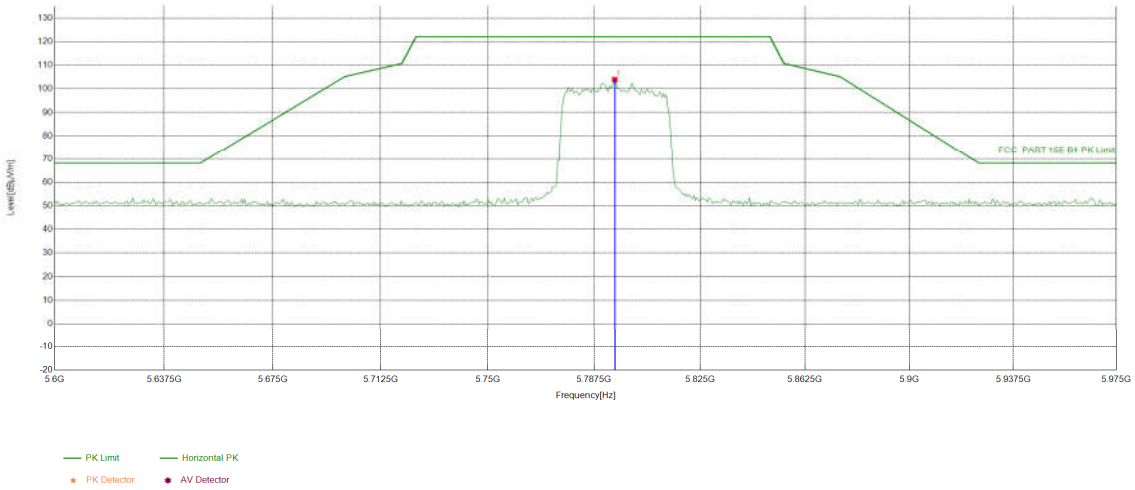
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5750.65	18.66	70.51	89.17	122.20	33.03	PASS	Vertical	PK

Test_Mode	5.8G Slot 40MHz	Test_Frequency	5795MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

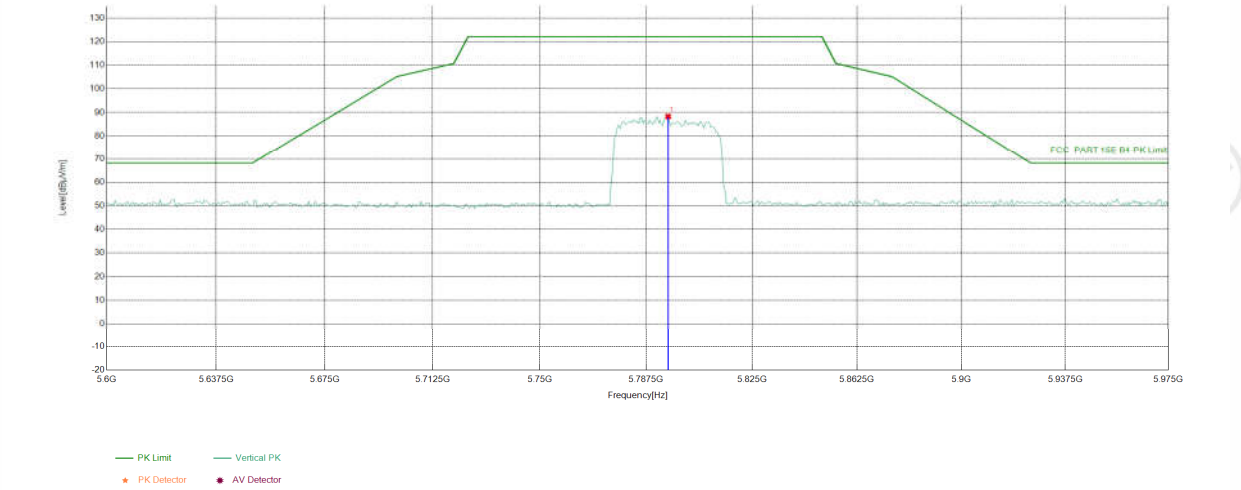
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5794.77	18.78	85.19	103.97	122.20	18.23	PASS	Horizontal	PK

Test_Mode	5.8G Slot 40MHz	Test_Frequency	5795MHz
Tset_Engineer	wangzhurun	Test_Date	2024/03/03
Remark	\		

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5795.24	18.78	69.52	88.30	122.20	33.90	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 1GHz to 25GHz, the disturbance above 13GHz 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.

8 Appendix 5.8G

Refer to Appendix: 5G of EED32Q80130802