

TEST REPORT

Product : Car Multimedia Entertainment System
Trade mark : KIA, HYUNDAI
Model/Type reference : MTXMO810LBL7mPE
Serial Number : N/A
Report Number : EED32S819085
FCC ID : BP9-MO810LBL7MPE
Date of Issue : September 17, 2026
Test Standards : 47 CFR Part 15 Subpart E
Test result : PASS

Prepared for:

MOTREX CO., LTD.

**1-1301, 56, Geumto-ro 80beon-gil, Sujeong-gu, Seongnam-si, Gyeonggi-do,
South Korea**

Prepared by:

Centre Testing International Group Co., Ltd.

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September 17, 2026

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Check No.: 2329100826

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2 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	PASS
Duty Cycle	47 CFR Part 15 Subpart E Section 15.407	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
26dB Emission Bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
99% Occupied Bandwidth	\	PASS
6dB Emission Bandwidth	47 CFR Part 15 Subpart E Section 15.407 (e)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	PASS
Radiated Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Radiated Emissions which fall in the restricted bands	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS

3 General Information

3.1 Client Information

Applicant:	MOTREX CO., LTD.
Address of Applicant:	1-1301, 56, Geumto-ro 80beon-gil, Sujeong-gu, Seongnam-si, Gyeonggi-do, South Korea
Manufacturer:	Skypine Electronics (Shenzhen) Co., Ltd.
Address of Manufacturer:	3rd Floor of Building B, Jingang Technology Park, Qiaotou Village, Fuhai Sub-District, Baoan, Shenzhen, China
Factory :	Unistrong Intelligence Manufacturing (Henan) Technology Co., Ltd.
Address of Factory :	Building No.33, Building No.31, Zone A, Intelligent Terminal (Mobile Phone) Industrial Park, Intersection of Hua Xia Avenue and Renmin Road, Zhengzhou Airport Economy Zone Zhengzhou City, Henan Province, P. R. China

3.2 General Description of EUT

Product Name:	Car Multimedia Entertainment System
Model No.:	MTXMO810LBL7mPE
Test Model No.:	MTXMO810LBL7mPE
Trade mark:	KIA, HYUNDAI
EUT Function:	☐ Outdoor AP ☐ Indoor AP ☐ Fixed P2P AP ☒ Indoor
Type of Modulation:	EEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Operating Frequency	U-NII-3: 5745-5825MHz
Antenna Configuration:	☒ Single Transmitting; ☐ MIMO (☐ 2T2R, ☐ 3T3R, ☐ 4T4R, ☐ Other);
Antenna Type:	IPEX Antenna
Antenna Gain:	3.62dBi
Power Supply:	DC 9V-16V
Test voltage:	DC 12V
Sample Received Date:	Aug. 15, 2026
Sample tested Date:	Aug. 15, 2026 to Aug. 26, 2026

Operation Frequency each of channel

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

U-NII-3	
Channel	Frequency(MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

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

U-NII-3	
Channel	Frequency(MHz)
151	5755
159	5795

Note:

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

3.3 Test Configuration

EUT Test Software Settings:	
Software:	Putty.exe
EUT Power Grade:	Default
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.	
Test Mode:	
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
802.11ac(VHT20)	MCS0
802.11ac(VHT40)	MCS0

3.4 Test Environment

Operating Environment:		
Radiated Spurious Emissions:		
Temperature:	22~25.0 °C	
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
Conducted Emissions:		
Temperature:	22~25.0 °C	
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
RF Conducted:		
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
Temperature:	NT (Normal Temperature)	22~25.0 °C
	LT (Low Temperature)	-20 °C
	HT (High Temperature)	65.0 °C
Working Voltage of the EUT:	NV (Normal Voltage)	12 V
	LV (Low Voltage)	9 V
	HV (High Voltage)	16 V

3.5 Description of Support Units

The EUT has been tested independently.

3.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

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

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

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

3.7 Deviation from Standards

None.

3.8 Abnormalities from Standard Conditions

None.

3.9 Other Information Requested by the Customer

None.

3.10 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%

4 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Spectrum Analyzer	Keysight	N9020B	MY57110194	2026/4/25	2027/4/24
DC Power	Keysight	E3634A	MY58186018	2026/4/25	2027/4/24
Signal Generator	R&S	SMBV100B	103596	2026/4/25	2027/4/24
Signal Generator	Keysight	N5171B	MY53051074	2026/4/25	2027/4/24
Communication test set	R&S	CMW500	159004	2026/4/25	2027/4/24
Wi-Fi 7GHz Band Extender	TSTPASS	TSTCMWSG EXT7	SN4522048	2026/4/25	2027/4/24
RF control unit(power unit)	TSTPASS	TSCB562R2	SN2949184	2026/4/25	2027/4/24
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	2025/11/13	2026/11/12
Temperature/Humidity Indicator	biaozhi	HM10	1804186	2026/05/22	2027/05/21
BT&WI-FI Automatic test system	TSTPASS	---	V2.0.2	---	---

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	---	01-29-2024	01-28-2027
Receiver	Keysight	N9038A	MY57290136	12-22-2025	12-21-2026
Spectrum Analyzer	Keysight	N9020B	MY57111112	12-21-2025	12-20-2026
Spectrum Analyzer	Keysight	N9030B	MY57140871	12-21-2025	12-20-2026
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	03-29-2026	03-28-2027
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-03-2026	04-02-2027
Horn Antenna	ETS-LINDGREN	3117	57407	05-10-2026	05-09-2027
Preamplifier	EMCI	EMC001330	980563	02-06-2026	02-05-2027
Preamplifier	EMCI	EMC051845SE	980380	11-25-2025	11-24-2026
Preamplifier	Tonscend	TAP-011858	AP21B806112	06-22-2026	06-21-2027
Communication test set	R&S	CMW500	104466	11-25-2025	11-24-2026
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	03-24-2026	03-23-2027
RSE Automatic test software	JS Tonscend	JS36-RSE	V5.0.0.1	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-29-2024	01-28-2027
Cable line	Times	EMC104-NMNM-1000	SN160710	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-29-2024	01-28-2027
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-29-2024	01-28-2027

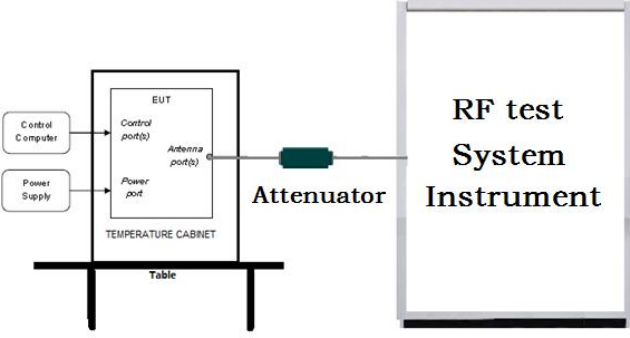
3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	01/13/2024	01/12/2027
Receiver	R&S	ESCI7	100938-003	09/03/2025	09/02/2026
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/11/2026	05/10/2027
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	03/29/2026	03/28/2027
Microwave Preamplifier	Tonscend	EMC051845SE	980380	11/25/2025	11/24/2026
Horn Antenna	A.H.SYSTEMS	SAS-574	374	05-16-2026	05-15-2027
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	03/31/2026	03/30/2027
Preamplifier	Agilent	11909A	12-1	02/06/2026	02/05/2027
Preamplifier	CD	PAP-1840-60	6041.6042	05/16/2026	05/15/2027
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---
Cable line	Fulai(7M)	SF106	5219/6A	01/13/2024	01/12/2027
Cable line	Fulai(6M)	SF106	5220/6A	01/13/2024	01/12/2027
Cable line	Fulai(3M)	SF106	5216/6A	01/13/2024	01/12/2027
Cable line	Fulai(3M)	SF106	5217/6A	01/13/2024	01/12/2027

5 Radio Technical Requirements Specification

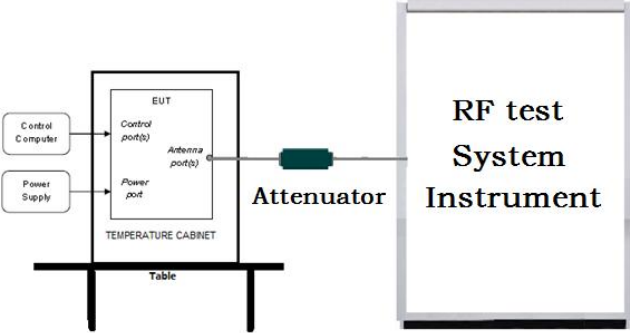
5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna:	Please see Internal photos
The antenna is IPEX Antenna. The best case gain of the antenna is 3.62dBi.	

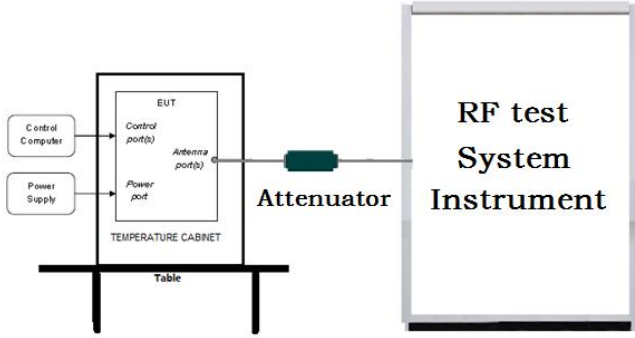
5.2 Maximum Conducted Output Power

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

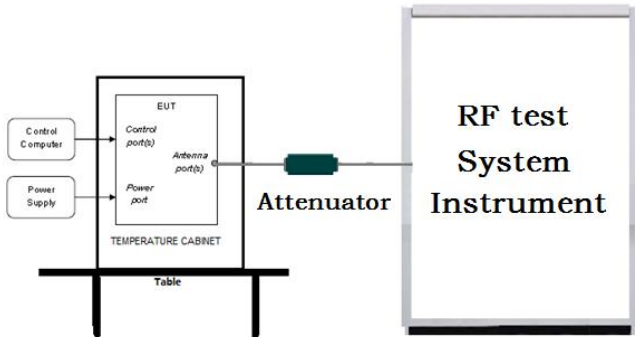
5.3 6dB EBmission Bandwidth

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 A

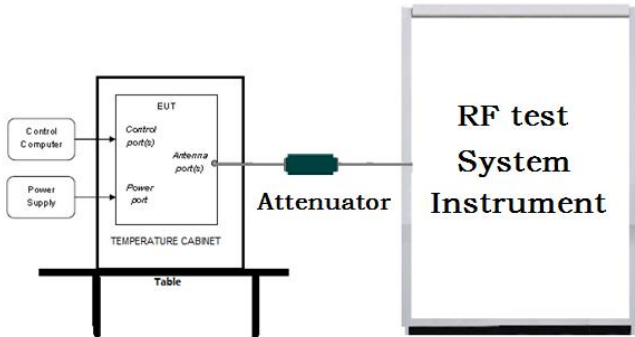
5.4 26dB Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C&D
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	For 26dB Occupied Bandwidth: 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. For 99% Occupied Bandwidth: 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. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$. 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 A

5.5 Maximum Power Spectral Density

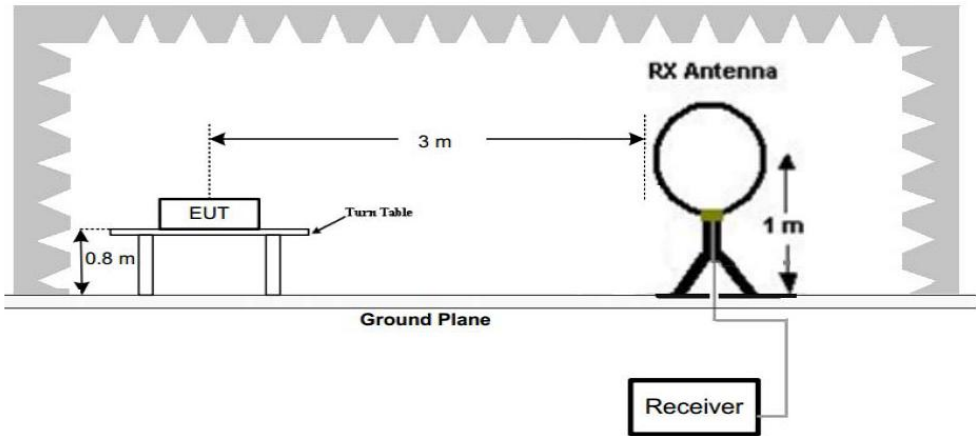
Test Requirement:	47 CFR Part 15C Section 15.407 (a)												
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F												
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.												
Test Procedure:	1. Set the spectrum analyzer or EMI receiver span to 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. 4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01. Method (a): Measure and sum the spectra across the outputs. The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.												
Limit:	<table border="1"> <thead> <tr> <th>Frequency band (MHz)</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>5150-5250</td><td>≤17dBm in 1MHz for master device ≤11dBm in 1MHz for client device</td></tr> <tr> <td>5250-5350</td><td>≤11dBm in 1MHz for client device</td></tr> <tr> <td>5470-5725</td><td>≤11dBm in 1MHz for client device</td></tr> <tr> <td>5725-5850</td><td>≤30dBm in 500kHz</td></tr> <tr> <td>Remark:</td><td>The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</td></tr> </tbody> </table>	Frequency band (MHz)	Limit	5150-5250	≤17dBm in 1MHz for master device ≤11dBm in 1MHz for client device	5250-5350	≤11dBm in 1MHz for client device	5470-5725	≤11dBm in 1MHz for client device	5725-5850	≤30dBm in 500kHz	Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.
Frequency band (MHz)	Limit												
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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 A												

5.6 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.407 (g)
Test Method:	ANSI C63.10-2020
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 A

5.7 Radiated Emission

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.407 (b)																																	
Test Method:	ANSI C63.10-2020																																	
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:	(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.																																	
	<table><tr><td>EIRP(dBm)</td><td>Field Strength at 3m (dBμV/m)</td></tr><tr><td>-27(RMS)</td><td>68.2</td></tr><tr><td>-7(Peak)</td><td>88.2</td></tr></table>					EIRP(dBm)	Field Strength at 3m (dBμV/m)	-27(RMS)	68.2	-7(Peak)	88.2																							
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	Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:																																	
<table><tr><td>Frequency</td><td>Field strength (microvolt/meter)</td><td>Limit (dBuV/m)</td><td>Remark</td><td>Measurement distance (m)</td></tr><tr><td>0.009MHz-0.490MHz</td><td>2400/F(kHz)</td><td>-</td><td>-</td><td>300</td></tr><tr><td>0.490MHz-1.705MHz</td><td>24000/F(kHz)</td><td>-</td><td>-</td><td>30</td></tr><tr><td>1.705MHz-30MHz</td><td>30</td><td>-</td><td>-</td><td>30</td></tr><tr><td>30MHz-88MHz</td><td>100</td><td>40.0</td><td>Quasi-peak</td><td>3</td></tr><tr><td>88MHz-216MHz</td><td>150</td><td>43.5</td><td>Quasi-peak</td><td>3</td></tr></table>					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
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
	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. When the peak radio frequency emissions exceed the maximum permitted average limits specified above by less than 20 dB, the average radio frequency emissions will be recorded whether it meets the limit requirements. Note: (i) $EIRP = ((E \cdot d)^2) / 30$ where: • E is the field strength in V/m; • d is the measurement distance in meters; • EIRP is the equivalent isotropically radiated power in watts. (ii) Working in dB units, the above equation is equivalent to: $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$ (iii) Or, if d is 3 meters: $EIRP[dBm] = E[dB\mu V/m] - 95.2$				
Test Setup:	 Figure 1. Below 30MHz				

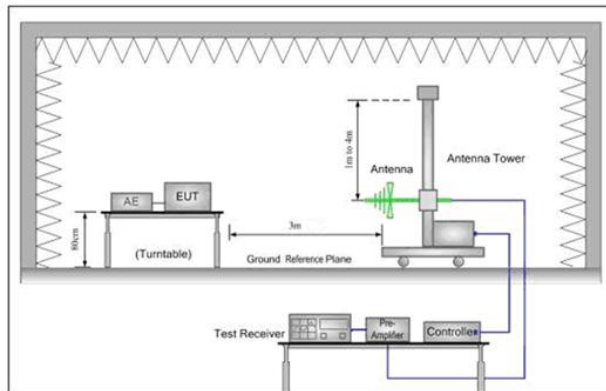


Figure 2. 30MHz to 1GHz

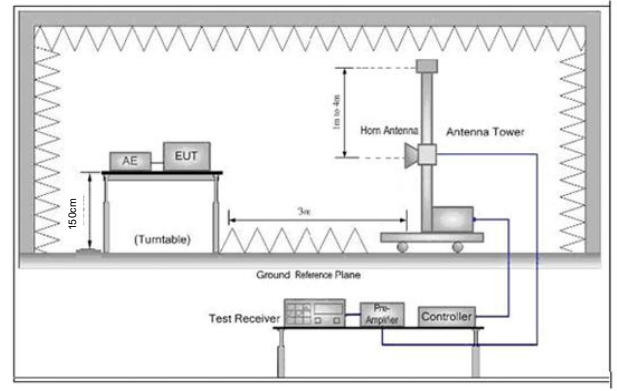


Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel and the highest

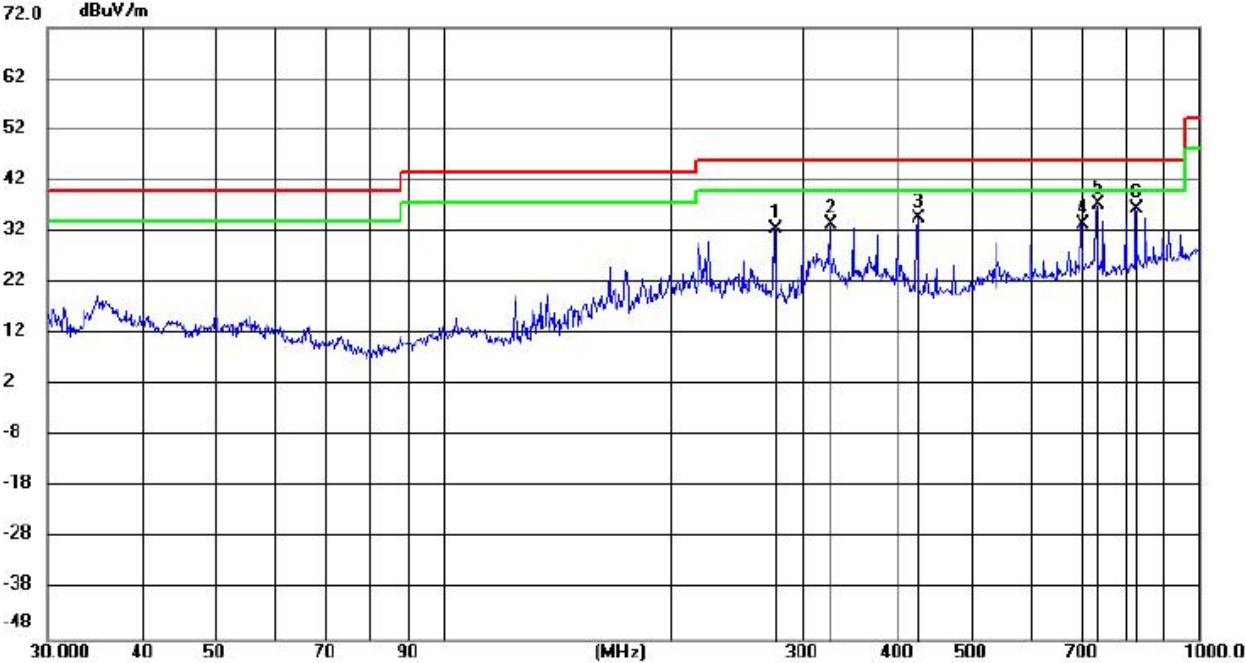
	channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting mode with modulation
Test Results:	Pass

Radiated Spurious Emissions test Data:
Radiated Emission below 1GHz

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

Test Graph

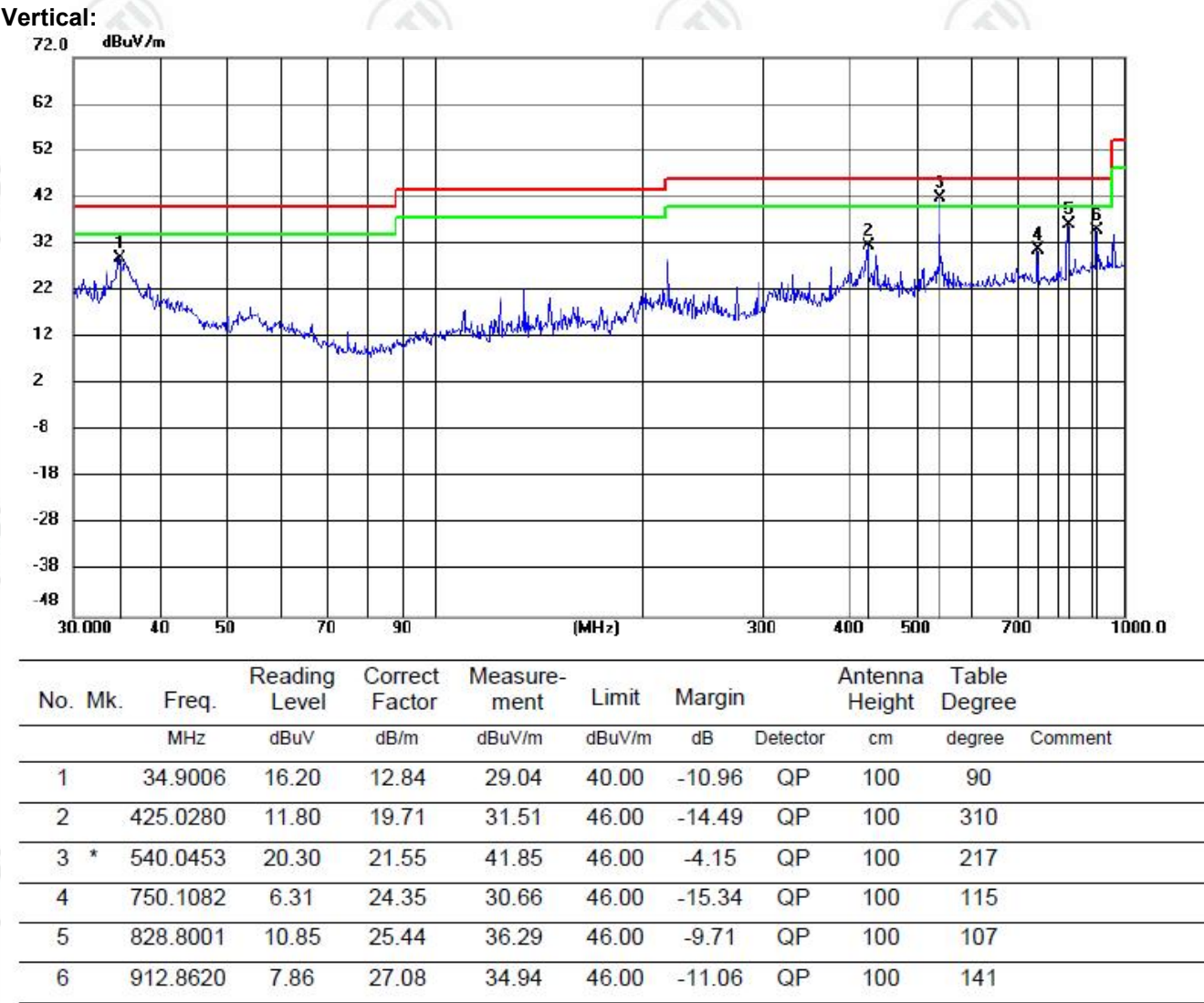
Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		275.0123	17.26	15.39	32.65	46.00	-13.35	QP	100	17
2		325.0254	16.44	17.16	33.60	46.00	-12.40	QP	100	1
3		425.0280	14.81	19.71	34.52	46.00	-11.48	QP	100	26
4		700.0406	9.55	24.01	33.56	46.00	-12.44	QP	100	51
5	*	732.4336	13.18	24.27	37.45	46.00	-8.55	QP	100	127
6		825.0306	11.01	25.33	36.34	46.00	-9.66	QP	100	320

Remark:

1. $\text{Margin} = \text{Measurement}(\text{Level}) - \text{Limit}$.
2. $\text{Measurement}(\text{Level}) = \text{Reading Level} + \text{Correct Factor}$.
3. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit, an exclamation mark (!) indicates over -6dB margin Limit.



Remark:

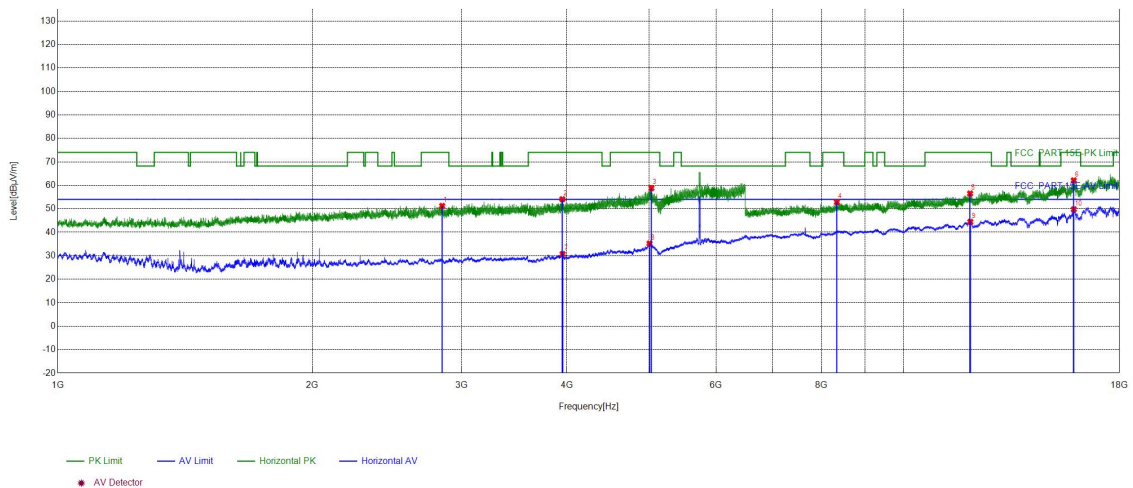
1. $\text{Margin} = \text{Measurement(Level)} - \text{Limit}$.
2. $\text{Measurement(Level)} = \text{Reading Level} + \text{Correct Factor}$.
3. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit, an exclamation mark (!) indicates over -6dB margin Limit.

Transmitter Emission above 1GHz

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

Test_Mode	802.11 a Transmitting	Test_Frequency	5745MHz
Tset_Engineer	\	Test_Date	2026/08/26

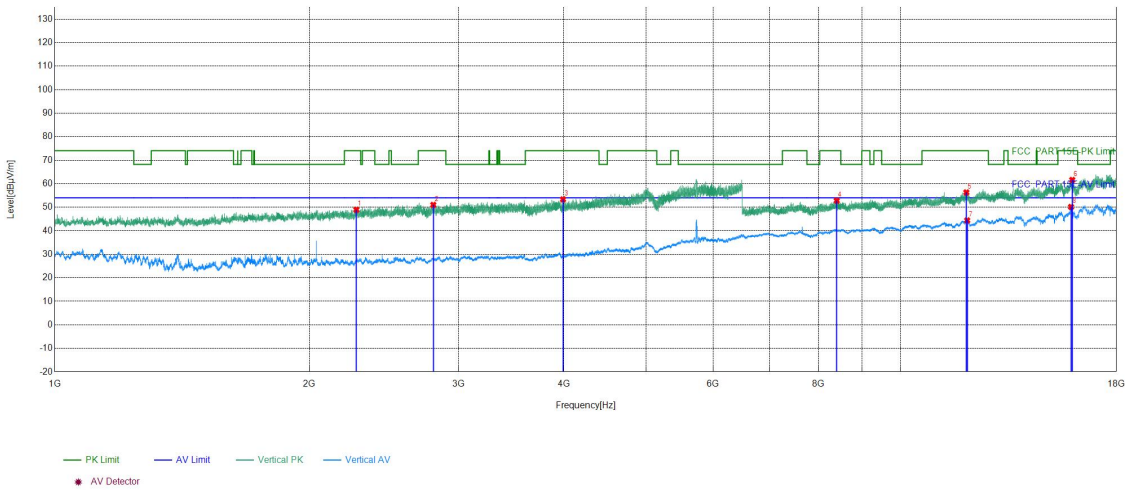
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2847.4139	17.56	33.67	51.23	74.00	22.77	PASS	Horizontal	PK
2	3949.878	21.50	32.58	54.08	74.00	19.92	PASS	Horizontal	PK
3	5032.9813	24.96	33.84	58.80	74.00	15.20	PASS	Horizontal	PK
4	8339.6136	-1.20	54.03	52.83	74.00	21.17	PASS	Horizontal	PK
5	11986.1794	3.19	53.32	56.51	74.00	17.49	PASS	Horizontal	PK
6	15895.8758	10.10	52.00	62.10	74.00	11.90	PASS	Horizontal	PK
7	3952.0781	21.49	9.25	30.74	54.00	23.26	PASS	Horizontal	AV
8	5007.4603	24.87	10.34	35.21	54.00	18.79	PASS	Horizontal	AV
9	11993.0797	3.29	41.14	44.43	54.00	9.57	PASS	Horizontal	AV
10	15897.7159	10.11	39.66	49.77	54.00	4.23	PASS	Horizontal	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5745MHz
Tset_Engineer	\	Test_Date	2026/08/26

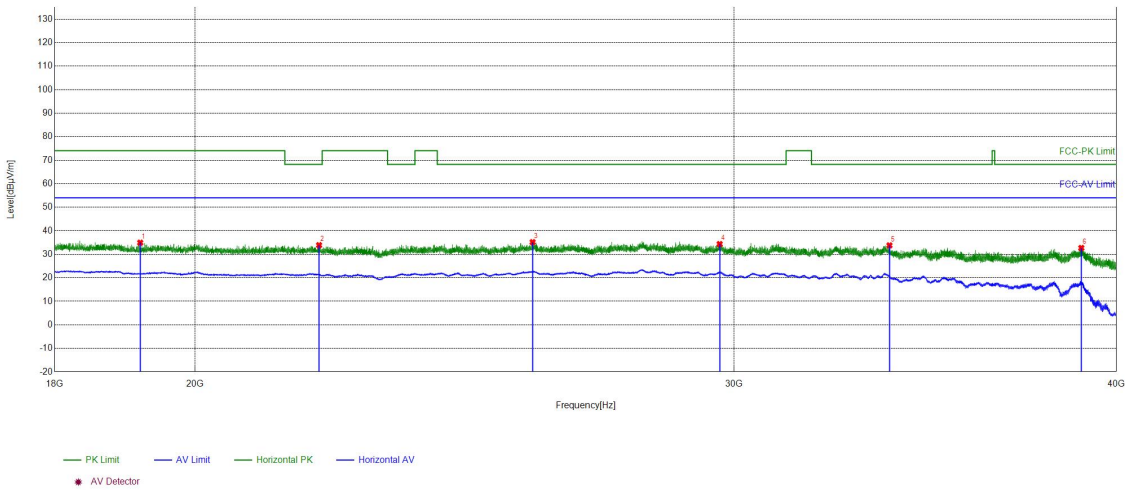
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2272.9709	16.16	32.79	48.95	74.00	25.05	PASS	Vertical	PK
2	2802.3121	17.30	33.70	51.00	74.00	23.00	PASS	Vertical	PK
3	3989.6996	21.52	31.81	53.33	74.00	20.67	PASS	Vertical	PK
4	8405.8562	-0.59	53.39	52.80	74.00	21.20	PASS	Vertical	PK
5	11962.2585	2.85	53.44	56.29	74.00	17.71	PASS	Vertical	PK
6	15959.8184	9.87	51.73	61.60	74.00	12.40	PASS	Vertical	PK
7	11989.3996	3.23	41.17	44.40	54.00	9.60	PASS	Vertical	AV
8	15908.2963	10.09	40.04	50.13	54.00	3.87	PASS	Vertical	AV

Test_Mode	802.11 a Transmitting	Test_Frequency	5745MHz
Tset_Engineer	\	Test_Date	2026/08/26

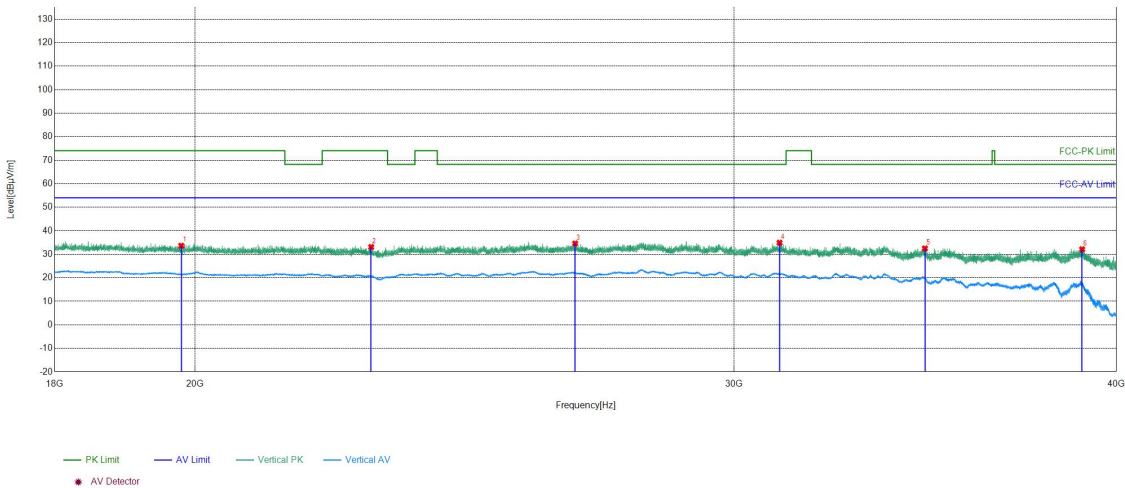
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	19194.2078	-26.06	60.99	34.93	74.00	39.07	PASS	Horizontal	PK
2	21958.3983	-25.75	59.62	33.87	68.20	34.33	PASS	Horizontal	PK
3	25783.9114	-20.81	55.96	35.15	68.20	33.05	PASS	Horizontal	PK
4	29678.9472	-20.75	55.09	34.34	68.20	33.86	PASS	Horizontal	PK
5	33722.7089	-17.62	51.40	33.78	68.20	34.42	PASS	Horizontal	PK
6	38958.0383	-12.94	45.62	32.68	68.20	35.52	PASS	Horizontal	PK

Test_Mode	802.11 a Transmitting	Test_Frequency	5745MHz
Tset_Engineer	\	Test_Date	2026/08/26

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	19796.1518	-25.24	58.85	33.61	74.00	40.39	PASS	Vertical	PK
2	22835.7934	-25.16	58.23	33.07	74.00	40.93	PASS	Vertical	PK
3	26622.5849	-21.16	55.72	34.56	68.20	33.64	PASS	Vertical	PK
4	31046.5219	-19.49	54.39	34.90	68.20	33.30	PASS	Vertical	PK
5	34634.4254	-16.16	48.63	32.47	68.20	35.73	PASS	Vertical	PK
6	38981.7993	-12.89	45.00	32.11	68.20	36.09	PASS	Vertical	PK