

TEST REPORT

Product : UWB Tag
Trade mark : N/A
Model/Type reference : WA04
Serial Number : N/A
Report Number : EED32S811959
FCC ID : 2BU9A-HW-UWB-BDG
Date of Issue : September 8, 2026
Test Standards : 47 CFR Part 15 Subpart F
Test result : PASS

Prepared for:

Artisight, Inc.

4000 W. Montrose Avenue #2390 Chicago Illinois United States 60641

Prepared by:

Centre Testing International Group Co., Ltd.

**Building C, Hongwei Industrial Park Block 70, Bao'an District,
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September 8, 2026

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2 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15,Subpart C Section §15.203	Pass
Operational Requirements	47 CFR Part 15,Subpart F Section §15.517(a)	Pass
AC Power Line Conducted Emissions	47 CFR Part 15,Subpart C Section §15.207	N/A
EIRP (Equivalent Isotropic Radiated Power)	47 CFR Part 15,Subpart F Section §15.517(c) & §15.517(e)	Pass
-10dB Bandwidth	47 CFR Part 15,Subpart F Section §15.503(a),(d) & §15.517(b)	Pass
Spurious Emissions Below 1GHz	47 CFR Part 15, Subpart F Section §15.209	Pass
Spurious Emissions Above 1GHz	47 CFR Part 15, Subpart F Section §15.517(c),(d) & §15.521(d)	Pass

Remark:

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

3 General Information

3.1 Client Information

Applicant:	Artisight, Inc.
Address of Applicant:	4000 W. Montrose Avenue #2390 Chicago Illinois United States 60641
Manufacturer:	KKM Technology Company Limited
Address of Manufacturer:	6A-3CDE, Baoneng Science and Technology Industrial Park, Long Hua district, Shenzhen 518109, Guang Dong, China.
Factory:	KKM Technology Company Limited
Address of Factory:	6A-3CDE, Baoneng Science and Technology Industrial Park, Long Hua district, Shenzhen 518109, Guang Dong, China.

3.2 General Description of EUT

Product Name:	UWB Tag	
Model No.:	WA04	
Test Model No.:	WA04	
Trade mark:	N/A	
Product Type:	Indoor UWB system	
Operation Frequency:	6489.6MHz(6240 MHz to 6738.2 MHz) 7987.2MHz(7740MHz to 8239.2MHz)	
Modulation Type:	OFDM	
Number of Channels:	2	
Antenna Type:	PCB Antenna	
Antenna Gain:	6489.6MHz:4.03dBi 7987.2MHz:2.50dBi	
Power Supply:	Battery:	DC 3V
Test Voltage:	DC 3V	
Sample Received Date:	Jun. 02, 2026	
Sample tested Date:	Jun. 02, 2026 to Jun. 22, 2026	

3.3 Test Configuration

EUT Test Software Settings:	
Test Software:	RF test (manufacturer declare)
EUT Power Grade:	Default (Power level is built-in set parameters and cannot be changed and selected)

3.4 Test Environment

Operating Environment:	
Radiated Spurious 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

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 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-40GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

3.8 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	11-25-2025	11-24-2026
Spectrum Analyzer	R&S	FSVS3044	101509	05-14-2026	05-13-2027
Spectrum Analyzer	R&S	FSW43	102978	08-11-2025	08-10-2026
Signal Generator	Keysight	N5182B	MY53051549	11-13-2025	11-12-2026
Signal Generator	Agilent	N5181A	MY46240094	11-25-2025	11-24-2026
DC Power	Keysight	E3642A	MY56376072	11-13-2025	11-12-2026
Communication test set	R&S	CMW500	169004	02-06-2026	02-05-2027
RF control unit(power unit)	JS Tonscend	JS0806-2	24I80620925	07-21-2025	07-20-2026
Wi-Fi 7GHz Band Extender	JS Tonscend	TS-WF7U2	2206200002	05-09-2026	05-08-2027
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-13-2025	11-12-2026
Temperature/Humidity Indicator	biaozhi	HM10	1804186	05-26-2025 05-22-2026	05-25-2026 05-21-2027
BT&Wi-Fi Automatic test software	JS Tonscend	JS1120-3	V3.6.21	---	---
Digital multimeter	FLUKE	17B MAX	59545050WS	10-15-2025	10-14-2026

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	07/02/2023	07/01/2026
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

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	07-07-2025	07-06-2026
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

4 Test results and Measurement Data

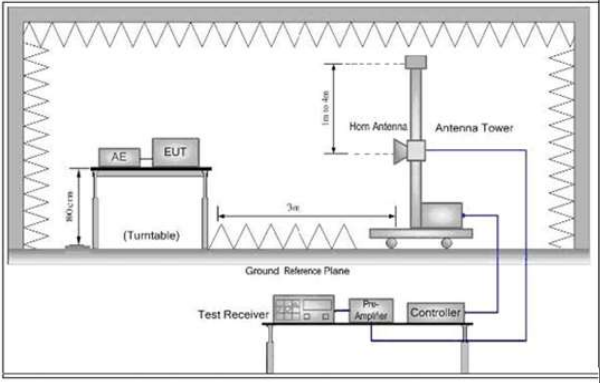
4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15, Subpart C 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 shall be considered sufficient to comply.	
EUT Antenna:	Please see Internal photos
The antenna is PCB antenna. The best case gain of the 6489.6MHz antenna is 4.03dBi. The best case gain of the 7987.2MHz antenna is 2.50dBi.	

4.2 Operational Requirements

Standard requirement:	47 CFR Part 15, Subpart F Section §15.517(a)
(1) Indoor UWB devices, by the nature of their design, must be capable of operation only indoors. The necessity to operate with a fixed indoor infrastructure, e.g., a transmitter that must be connected to the AC power lines, may be considered sufficient to demonstrate this. Result: Compliant, the EUT is an indoor anchor designed to receive location information from a tag filed under a separate application. The statement required by Section 15.517(f) is located in the manual regarding the use of indoor equipment. (2) The emissions from the equipment operated under this section shall not be intentional directed outside of the building in which the equipment is located, such as through a window or a doorway, to perform an outside function, such as the detection of persons about to enter a building. Result: Not Applicable, Compliant. (3) The use of outdoor mounted antennas, e.g. antennas mounted on the outside of a building or on a telephone pole, or any other outdoors infrastructure is prohibited. Result: Not Applicable, Compliant. (4) Field disturbance sensors installed inside of metal or underground storage tanks are considered to operate indoors provided the emissions are directed towards the ground. Result: Not Applicable, Compliant. (5) A communications system shall transmit only when the intentional radiator is sending information to an associated receiver.	
Result:	Compliant.

4.3 EIRP(Equivalent Isotropic Radiated Power)

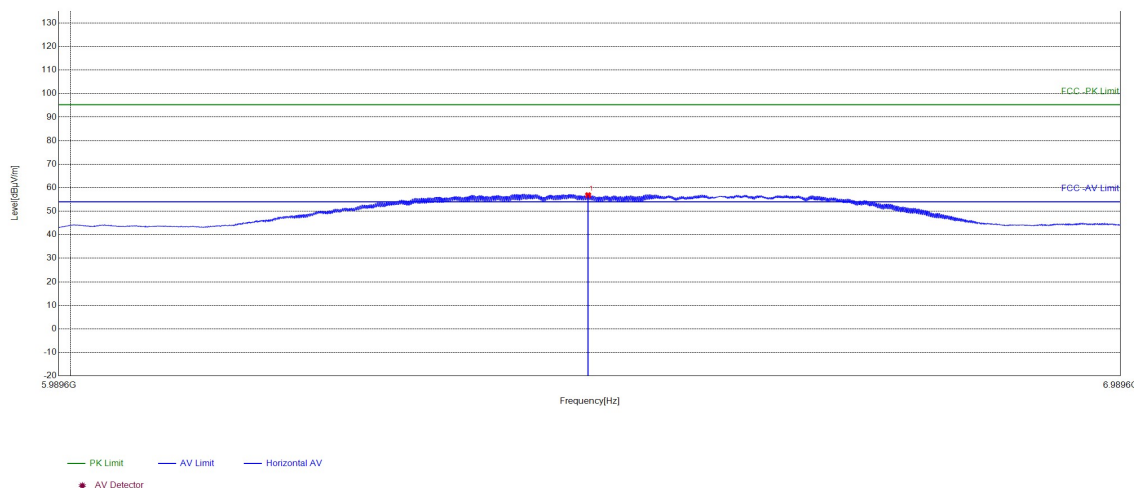
Test Requirement:	47 CFR Part 15, Subpart F Section §15.517(c) & §15.517(e)												
Test Method:	ANSI C63.10: 2020 section 10.3												
Test Setup:	 Remark: Due to some spectrum analyzer does not support 50MHz RBW setting, RBW set to the maximum value, and add a correction factor is allowed for Max Peak EIRP measurement. According to ANSI 63.10 Clause 10.3.9, the EIRP to field strength at a specified measurement distance of 3 m is below: $E \text{ (dBuV/m)} = \text{EIRP(dBm)} + 95.3$ For peak power test, the spectrum analyzer was set to RBW=8MHz, VBW=10MHz, and add a conversion factor of $20 \cdot \log(50\text{MHz}/8\text{MHz}) = 15.92\text{dB}$.												
Test Procedure:	1) The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semianechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3) 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. 4) 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5) The test-receiver system was set to Peak detector with Maximum Hold Mode for Max Peak EIRP measurement and AV detector for Average EIRP measurement. 6) Test the EUT in the lowest channel, the Highest channel 7) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. 8) Repeat above procedures until all frequencies measured was complete. Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor												
Limit:	(c) The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in § 15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz: <table border="1"> <thead> <tr> <th>Frequency in MHz</th><th>EIRP in dBm</th></tr> </thead> <tbody> <tr> <td>960-1610</td><td>-75.3</td></tr> <tr> <td>1610-1990</td><td>-53.3</td></tr> <tr> <td>1990-3100</td><td>-51.3</td></tr> <tr> <td>3100-10600</td><td>-41.3</td></tr> <tr> <td>Above 10600</td><td>-51.3</td></tr> </tbody> </table>	Frequency in MHz	EIRP in dBm	960-1610	-75.3	1610-1990	-53.3	1990-3100	-51.3	3100-10600	-41.3	Above 10600	-51.3
Frequency in MHz	EIRP in dBm												
960-1610	-75.3												
1610-1990	-53.3												
1990-3100	-51.3												
3100-10600	-41.3												
Above 10600	-51.3												

	(e) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, f_M . That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit, following the procedures described in § 15.521.
Test Mode:	Continuous Tx Mode, Keep the EUT Transmitting with Modulation
Test Results:	Pass

Test Result

Test_Mode	UWB	Test_Frequency	6489.6MHz
Remark:	\	Test_Date	2026/6/18

Test Graph

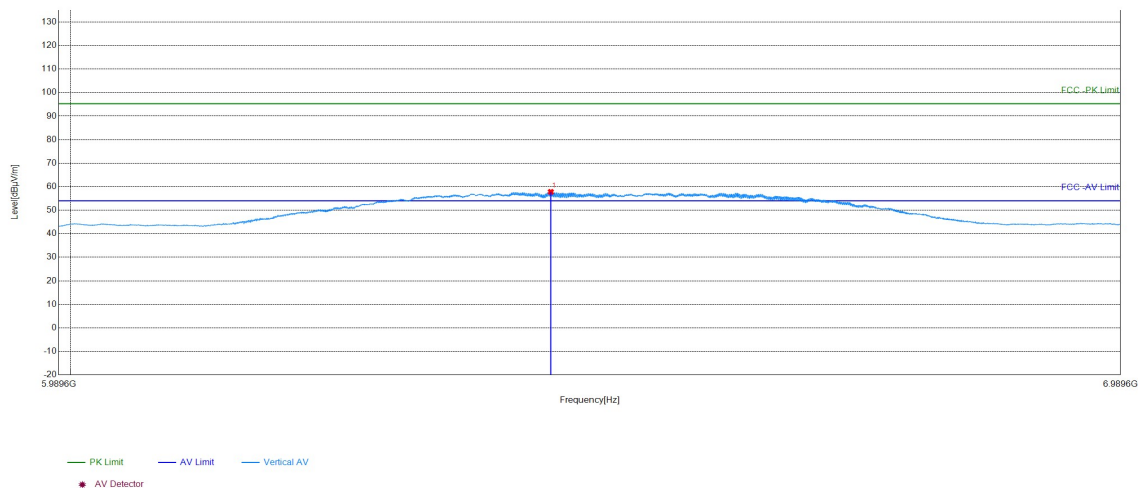


Peak Field Strength for fundamental @ RBW=8MHz						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Polarity	Remark
1	6468.9333	-4.50	61.31	56.81	Horizontal	PK

Calculated Peak Field Strength of fundamental					
Freq. [MHz]	Measured Field Strength of fundamental (FSM) (dBuV/m)	Limit (dBuV/m)	Margin [dB]	Result	Polarity
6489.6	56.81	79.38	22.57	Pass	Horizontal
Note:					
① Limit(dBuV/m) = EIRP(dBm) + 95.3 = 79.38(dBuV/m);					
② EIRP(dBm) = 20 log (RBW/50) dBm = 20 log (8/50) dBm = -15.92(dBm);					

Test_Mode	UWB	Test_Frequency	6489.6MHz
Remark:	\	Test_Date	2026/6/18

Test Graph

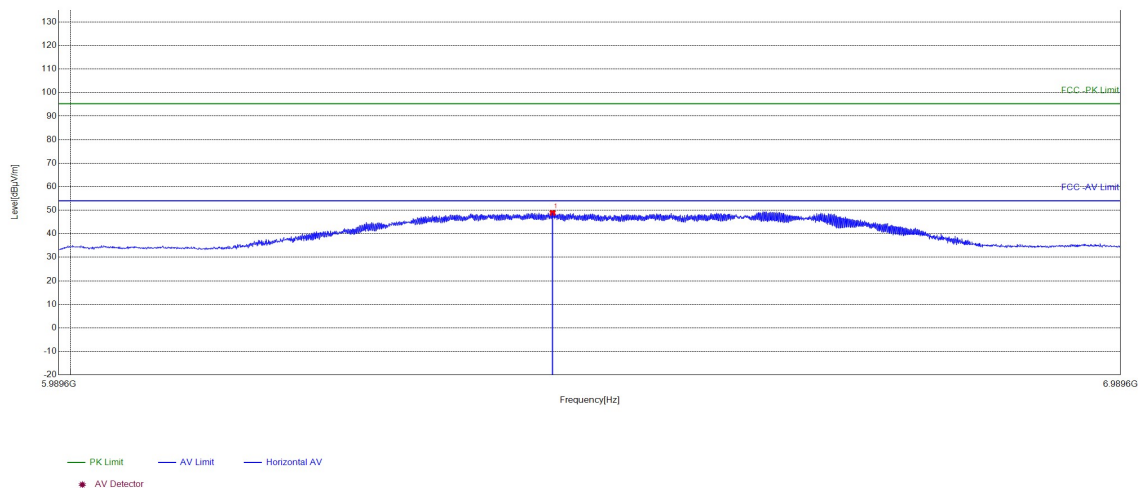


Peak Field Strength for fundamental @ RBW=8MHz						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Polarity	Remark
1	6433.9333	-4.50	62.29	57.79	Horizontal	PK

Calculated Peak Field Strength of fundamental					
Freq. [MHz]	Measured Field Strength of fundamental (FSM) (dBuV/m)	Limit (dBuV/m)	Margin [dB]	Result	Polarity
6489.6	57.79	79.38	21.59	Pass	Vertical
Note: ①Limit(dBuV/m) = EIRP(dBm) + 95.3=79.38(dBuV/m); ②EIRP(dBm)=20 log (RBW/50) dBm =20 log (8/50) dBm=-15.92(dBm);					

Test_Mode	UWB	Test_Frequency	6489.6MHz
Remark:	\	Test_Date	2026/6/18

Test Graph



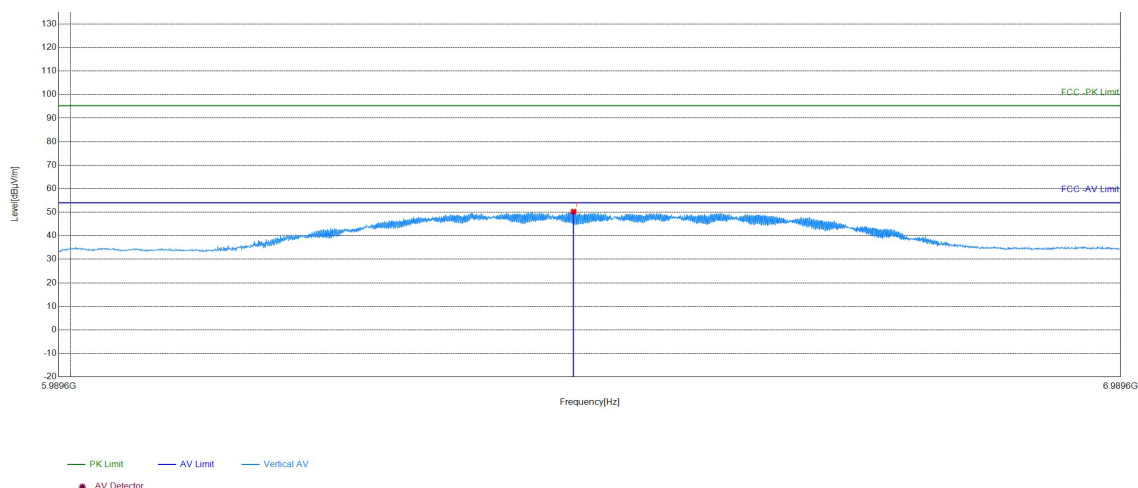
Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	6435.6	-4.50	53.35	48.85	54.00	5.15	PASS	Horizont	AV

Note: Limit=95.3-41.3=54dBuV/m;

Test_Mode	UWB	Test_Frequency	6489.6Mhz
Remark:	\	Test_Date	2026/6/18

Test Graph



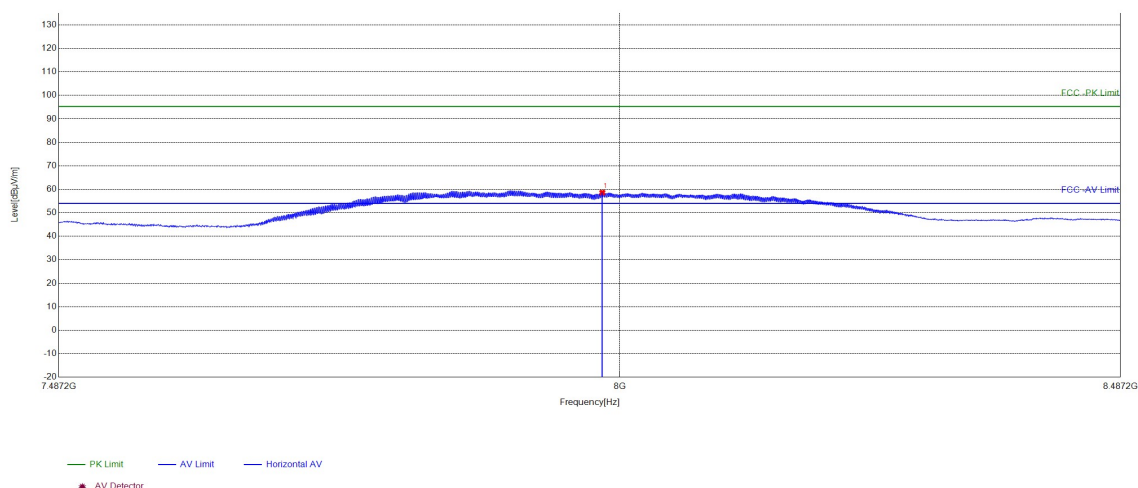
Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	6455.2667	-4.46	54.68	50.22	54.00	3.78	PASS	Vertical	AV

Note: Limit=95.3-41.3=54dBuV/m;

Test_Mode	UWB	Test_Frequency	7987.2MHz
Remark:	\	Test_Date	2026/6/18

Test Graph



Peak Field Strength for fundamental @ RBW=8MHz						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Polarity	Remark
1	7983.5333	-1.43	60.03	58.60	Horizontal	PK

Calculated Peak Field Strength of fundamental					
Freq. [MHz]	Measured Field Strength of fundamental (FSM) (dBuV/m)	Limit (dBuV/m)	Margin [dB]	Result	Polarity
7987.2	58.60	79.38	20.78	Pass	Horizontal

Note:

①Limit(dBuV/m) = EIRP(dBm) + 95.3=79.38(dBuV/m);

②EIRP(dBm)=20 log (RBW/50) dBm =20 log (8/50) dBm=-15.92(dBm);