

FCC Test Report

Report No. : 1812C40206712501

Applicant : GODOX PHOTO EQUIPMENT CO.,LTD

Address : 1st to 4th Floor, Building 2/1st to 4th Floor,
Building 4 ,Yaochuan Industrial Zone, Tangwei
Community, Fuhai Street, Baoan District,
Shenzhen, 518103 China

Product Name : Controller

Report Date : 2025-08-14

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : GODOX PHOTO EQUIPMENT CO.,LTD
Manufacturer : GODOX Photo Equipment Co.,Ltd.
Product Name : Controller
Model No. : AD00-01

Trade Mark : 

Rating(s) : Input: 12-20V~ 12W
Output: 0-28V~
USB-A Output: 5V~ 1.5A

Test Standard(s) : **47 CFR Part 15.249**
ANSI C63.10-2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: 2024-12-31

Date of Test: 2024-12-31 to 2025-08-11

Prepared By:



(Macy Ling)

Approved & Authorized Signer:



(Hugo Chen)

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Revision History


Report Version	Description	Issued Date
R00	Original Issue.	2025-08-14

1. General Information

1.1. Client Information

Applicant	:	GODOX PHOTO EQUIPMENT CO.,LTD
Address	:	1st to 4th Floor, Building 2/1st to 4th Floor, Building 4 ,Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, 518103 China
Manufacturer	:	GODOX Photo Equipment Co.,Ltd.
Address	:	4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3,1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,China
Factory	:	GODOX Photo Equipment Co.,Ltd.
Address	:	4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3,1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,China

1.2. Description of Device (EUT)

Product Name	:	Controller
Model No.	:	AD00-01
Trade Mark	:	
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79
Modulation Type	:	GFSK
Antenna Type	:	External antenna
Antenna Gain(Peak)	:	2.61dBi
Remark:		
(1) All of the RF specification are provided by customer.		
(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Apple Computer Adapter(New, dual Type-C)(30W)	Apple	A1947	/

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	-	-

1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1	Keep the EUT in continuously transmitting mode

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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Occupied Bandwidth	925Hz
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB; 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB
Radiated emissions (Below 30MHz)	3.26dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.7. Additional Instructions

Power level setup in software

EMI_Test_Tool

Operation Band:

Mode	Channel(MHz)	Power level	Transmitting type
2.4G	2402	default	data pack TX
2.4G	2442	default	data pack TX
2.4G	2480	default	data pack TX

1.8. Test Summary

Test Items	Test Modes	Status
Antenna requirement	/	P
Conducted Emission at AC power line	Mode1	P
Occupied Bandwidth	Mode1	P
Field strength of fundamental	Mode1	P
Band edge emissions (Radiated)	Mode1	P
Emissions in restricted frequency bands (below 1GHz)	Mode1	P
Emissions in restricted frequency bands (above 1GHz)	Mode1	P
Note: P: Pass N: N/A, not applicable		

1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.10. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

1.11. Test Equipment List

Conducted Emission at AC power line						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-09-09	2025-09-08
2	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
3	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESPI3	100926	2024-09-09	2025-09-08
4	Three Phase V-type Artificial Power Network LISN 200A	EMtrace	PWL-50-3200A	2404	2024-01-17	2025-01-16
					2025-02-21	2026-02-20

Occupied Bandwidth						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2024-10-14	2025-10-13
2	DC Power Supply	IVYTECH	IV3605	1804D360510	2024-09-09	2025-09-08
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06 2025-04-25	2025-05-05 2026-04-24
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY50531823	2024-09-09	2025-09-08
5	Oscilloscope	Tektronix	MDO3012	C020298	2024-10-10	2025-10-09
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	2024-02-04	2025-02-03
					2025-01-14	2026-01-13

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Band edge emissions (Radiated)						
Emissions in frequency bands (above 1GHz)						
Field strength of fundamental						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
					2025-01-14	2026-01-13
2	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	2024-01-17	2025-01-16
					2025-01-13	2026-01-12
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/
5	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2024-01-22	2027-01-21
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2025-04-25	2026-04-24
					2025-04-25	2026-04-24
7	Amplifier	Talent Microwave	TLLA18G40 G-53-30	23022802	2024-05-07	2025-05-06
					2025-02-24	2026-02-23

Emissions in frequency bands (below 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
					2025-01-14	2026-01-13
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
					2025-01-14	2026-01-13
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2024-09-12	2025-09-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/

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2. Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, 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 with the provisions of this section.
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2.1. Conclusion

The antenna is a External antenna which permanently attached, and the best case gain of the antenna is 2.61dBi . It complies with the standard requirement.

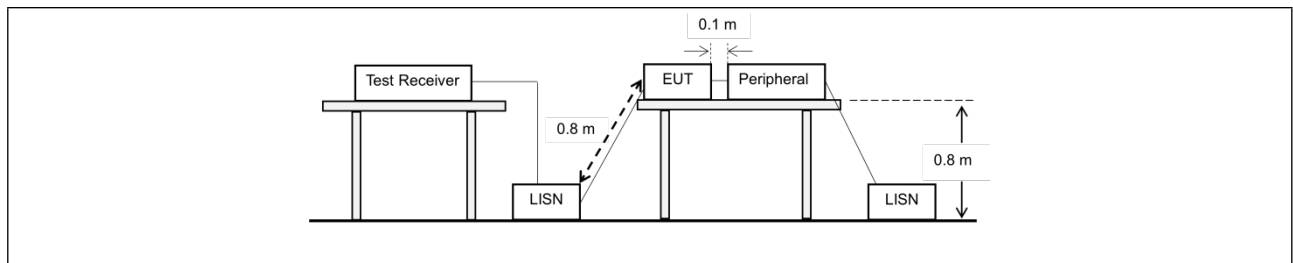
3. Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.10-2020 section 6.2		
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

3.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

3.2. Test Setup

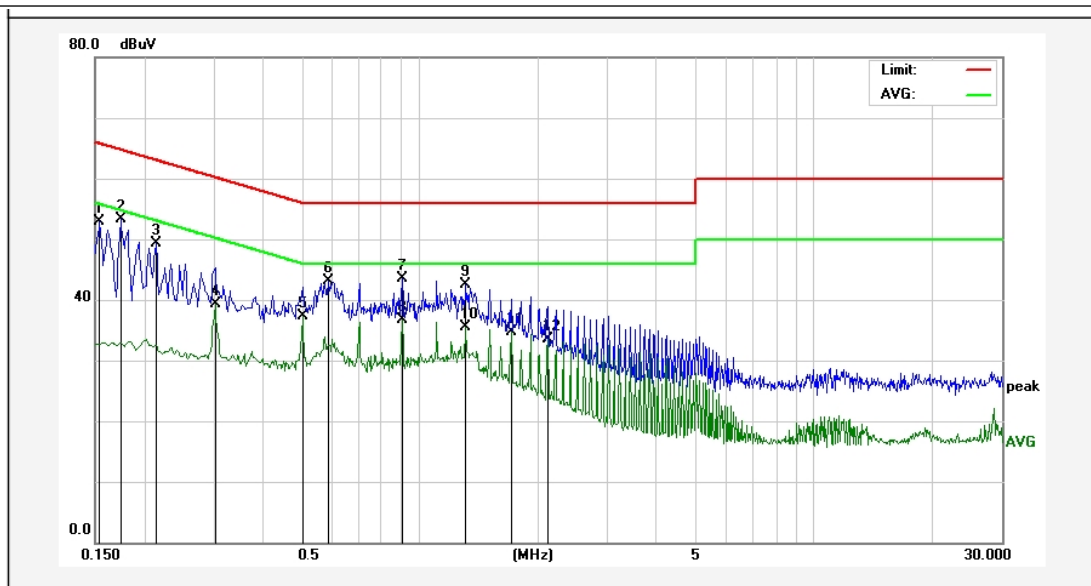


3.3. Test Data

Temperature:	23.3 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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TM1 / Line: Line / Band: 2.4G / BW: 2 / CH: L

Test Power Supply: AC 120V/60Hz for Adapter

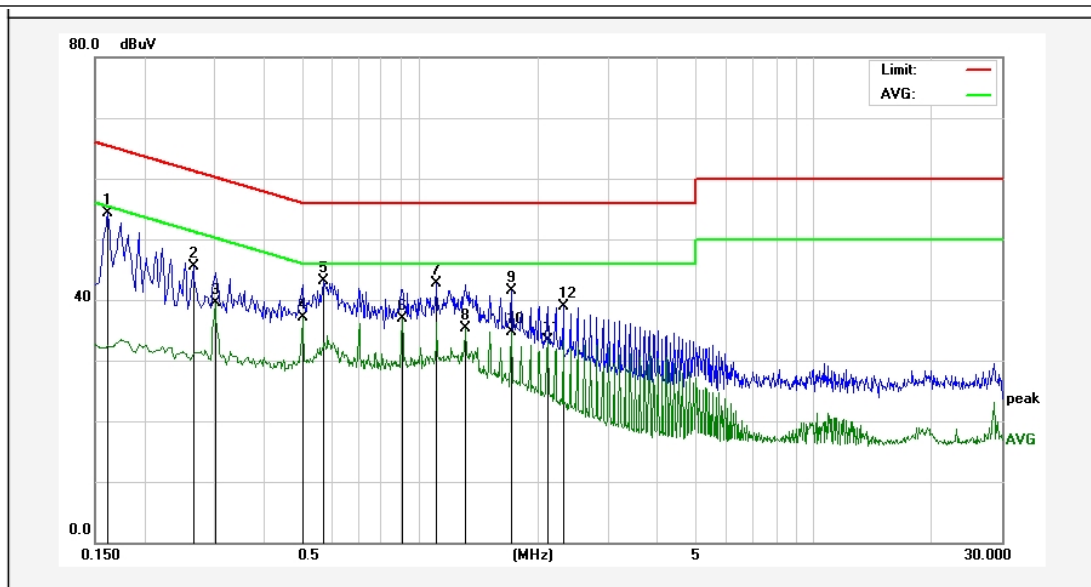


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	35.08	17.83	52.91	65.78	-12.87	QP	
2	0.1740	35.46	17.83	53.29	64.76	-11.47	QP	
3	0.2140	31.51	17.82	49.33	63.04	-13.71	QP	
4	0.3020	21.40	17.84	39.24	50.19	-10.95	AVG	
5	0.5020	19.46	17.86	37.32	46.00	-8.68	AVG	
6	0.5899	25.33	17.86	43.19	56.00	-12.81	QP	
7	0.9060	25.62	17.86	43.48	56.00	-12.52	QP	
8	0.9060	18.90	17.86	36.76	46.00	-9.24	AVG	
9	1.3099	24.64	17.86	42.50	56.00	-13.50	QP	
10	1.3099	17.59	17.86	35.45	46.00	-10.55	AVG	
11	1.7100	16.83	17.85	34.68	46.00	-11.32	AVG	
12	2.1140	15.56	17.85	33.41	46.00	-12.59	AVG	

Temperature:	23.3 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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TM1 / Line: Neutral / Band: 2.4G / BW: 2 / CH: L

Test Power Supply: AC 120V/60Hz for Adapter



No.	Freq. (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Over Limit (dB)	Detector	Remark
1	0.1620	36.38	17.83	54.21	65.36	-11.15	QP	
2	0.2660	27.72	17.84	45.56	61.24	-15.68	QP	
3	0.3020	21.60	17.84	39.44	50.19	-10.75	AVG	
4	0.5020	19.32	17.86	37.18	46.00	-8.82	AVG	
5	0.5740	25.29	17.86	43.15	56.00	-12.85	QP	
6	0.9060	19.08	17.86	36.94	46.00	-9.06	AVG	
7	1.1060	24.77	17.86	42.63	56.00	-13.37	QP	
8	1.3099	17.35	17.86	35.21	46.00	-10.79	AVG	
9	1.7100	23.58	17.85	41.43	56.00	-14.57	QP	
10	1.7100	16.90	17.85	34.75	46.00	-11.25	AVG	
11	2.1140	15.47	17.85	33.32	46.00	-12.68	AVG	
12	2.3140	21.15	17.85	39.00	56.00	-17.00	QP	

Remark:

Result(dBμV) = Reading(dBμV) + Factor(dB);

Over Limit(dB) = Result(dBμV) - Limit(dBμV)

4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 6.9.2
Procedure:	<p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the</p>

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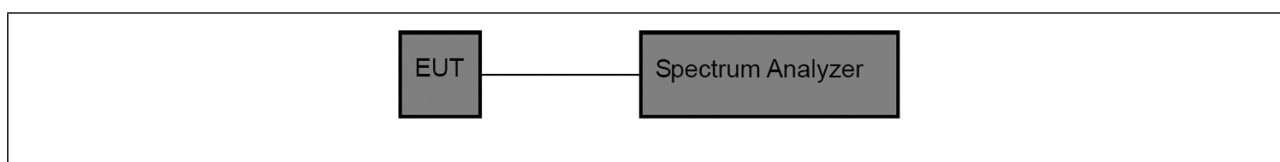
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	reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
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4.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

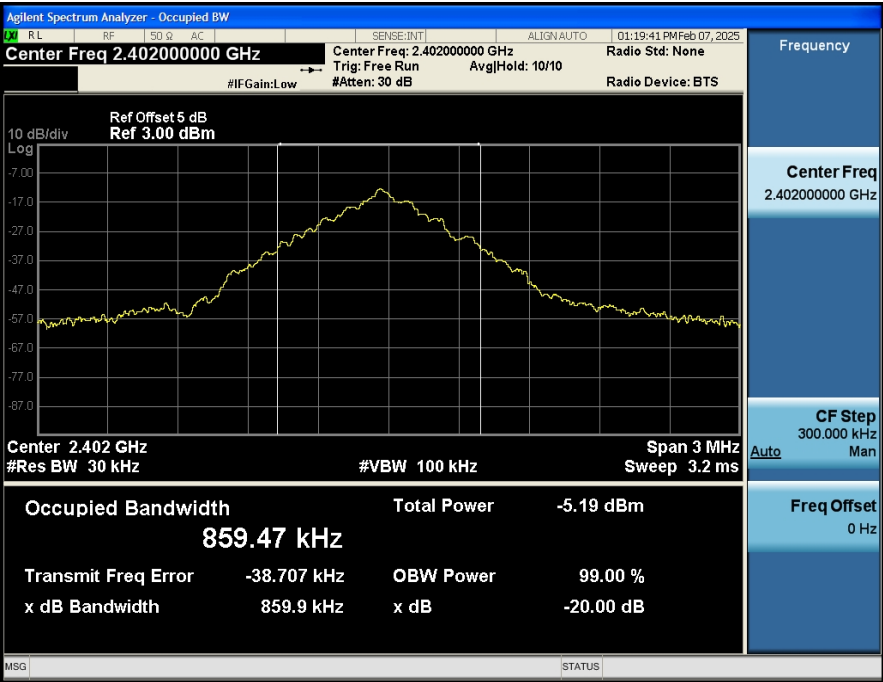
4.2. Test Setup



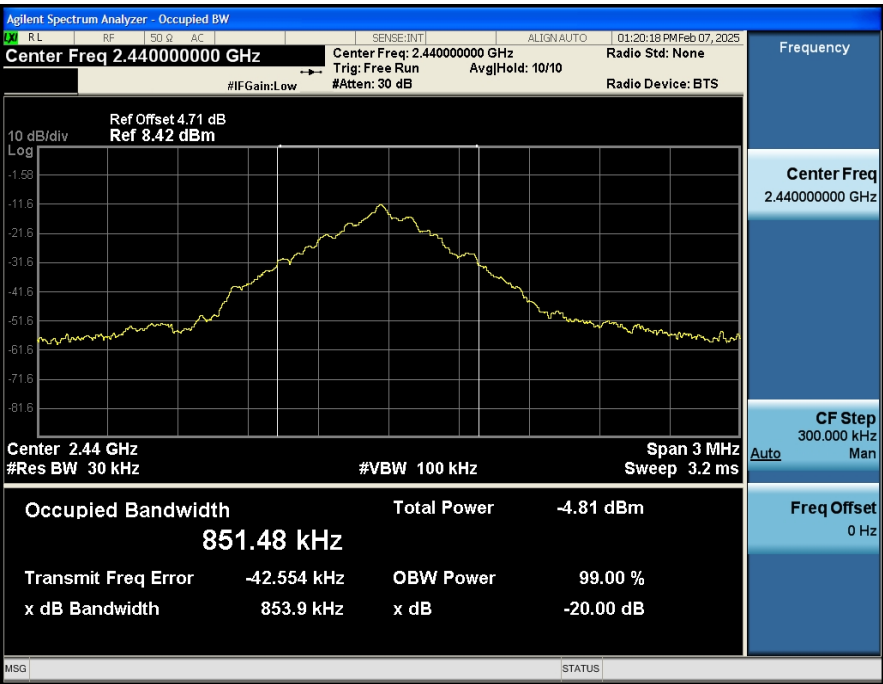
4.3. Test Data

Temperature:	23.3 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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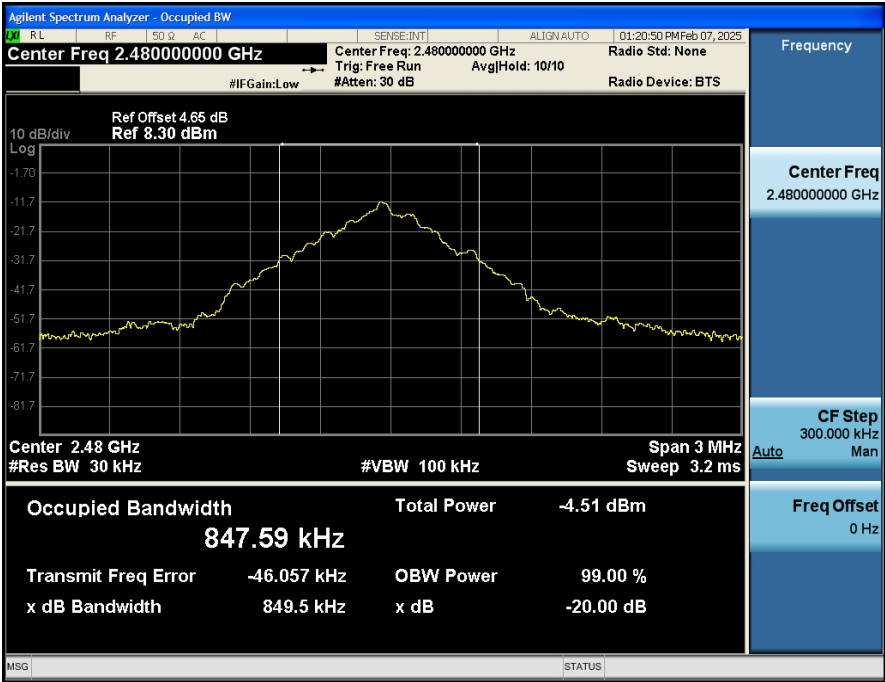
Channel	Bandwidth (kHz)	Result
Low	859.90	PASS
Middle	853.90	PASS
High	849.50	PASS



Low Channel



Mid Channel



High Channel

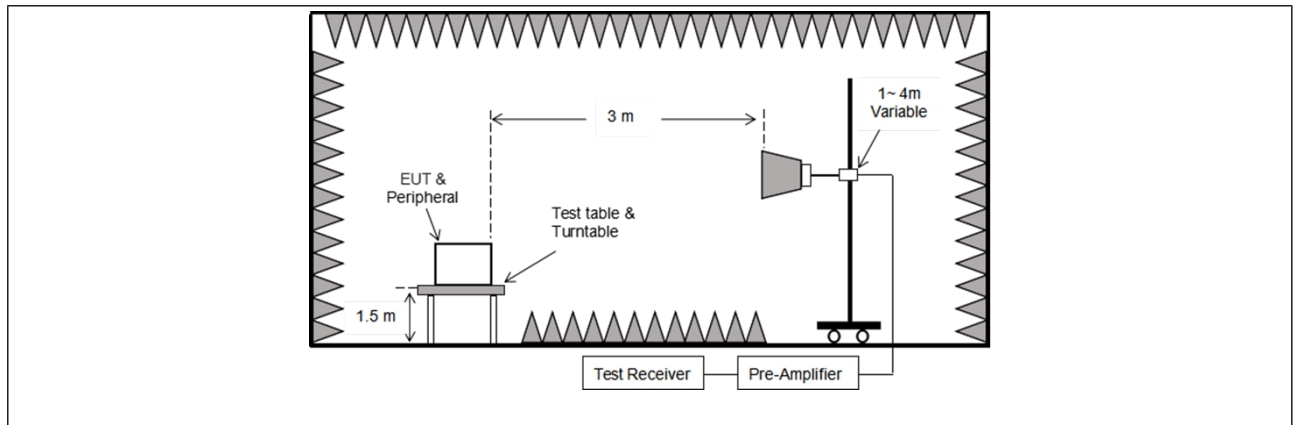
5. Field strength of fundamental

Test Requirement:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:		
	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
	902-928 MHz	50	500
	2400-2483.5 MHz	50	500
	5725-5875 MHz	50	500
	24.0-24.25 GHz	250	2500
The field strength of emissions in this band shall not exceed 2500 millivolts/meter.			
Test Method:	ANSI C63.10-2020 section 6.6		
Procedure:	ANSI C63.10-2020 section 6.6		

5.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

5.2. Test Setup



5.3. Test Data

Temperature:	23.3 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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TM1 / CH: L							
Peak value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization	Detector
2402.00	82.45	9.75	92.20	114.00	-21.80	Vertical	Peak
2402.00	83.39	9.75	93.14	114.00	-20.86	Horizontal	Peak
2402.00	72.38	9.75	82.13	94.00	-11.87	Vertical	Average
2402.00	73.62	9.75	83.37	94.00	-10.63	Horizontal	Average

TM1 / CH: M							
Peak value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization	Detector
2440.00	86.01	9.75	95.76	114.00	-18.24	Vertical	Peak
2440.00	81.41	9.75	91.16	114.00	-22.84	Horizontal	Peak
2440.00	73.69	9.75	83.44	94.00	-10.56	Vertical	Average
2440.00	70.30	9.75	80.05	94.00	-13.95	Horizontal	Average

TM1 / CH: H							
Peak value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization	Detector
2480.00	83.72	9.75	93.47	114.00	-20.53	Vertical	Peak
2480.00	84.44	9.75	94.19	114.00	-19.81	Horizontal	Peak
2480.00	75.28	9.75	85.03	94.00	-8.97	Vertical	Average
2480.00	72.81	9.75	82.56	94.00	-11.44	Horizontal	Average

Remark:

1. Result =Reading + Factor

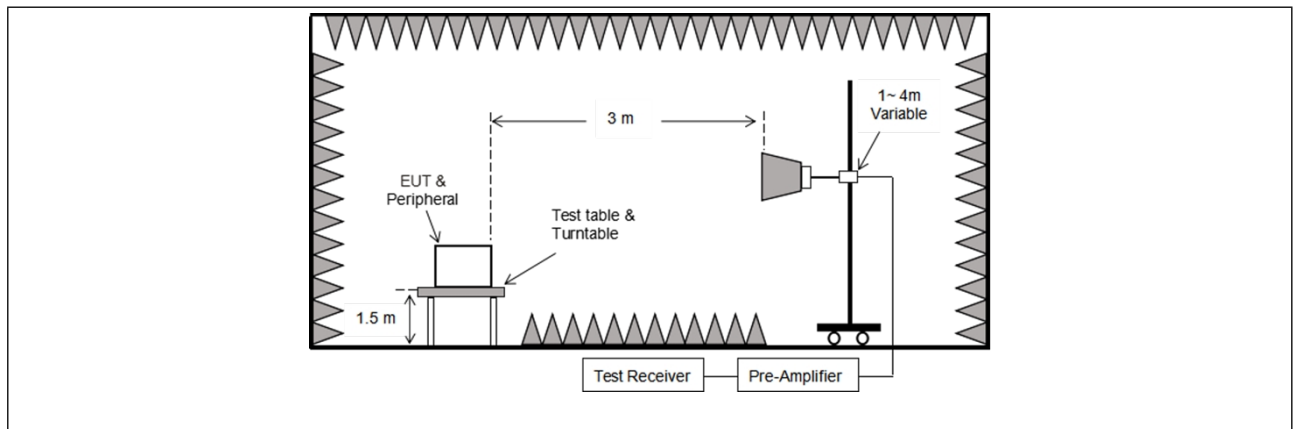
6. Band edge emissions (Radiated)

Test Requirement:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.		
Test Limit:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.		
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.		
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	ANSI C63.10-2020 section 6.6.4		

6.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

6.2. Test Setup



6.3. Test Data

Temperature:	23.3 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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TM1 / CH: L						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2390.000	32.694	9.730	42.424	74.000	-31.576	Vertical
2400.000	55.740	9.730	65.470	74.000	-8.530	Vertical
2366.300	47.196	9.730	56.926	74.000	-17.074	Vertical
2390.000	34.835	9.730	44.565	74.000	-29.435	Horizontal
2400.000	55.443	9.730	65.173	74.000	-8.827	Horizontal
2386.400	42.973	9.730	52.703	74.000	-21.297	Horizontal
TM1 / CH: H						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2483.500	39.100	9.910	49.010	74.000	-24.990	Vertical
2496.050	44.550	9.910	54.460	74.000	-19.540	Vertical
2483.500	36.515	9.910	46.425	74.000	-27.575	Horizontal
2495.850	44.089	9.910	53.999	74.000	-20.001	Horizontal

TM1 / CH: L						
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2390.000	20.098	9.730	29.828	54.000	-44.172	Vertical
2400.000	42.086	9.730	51.816	54.000	-22.184	Vertical
2366.300	34.240	9.730	43.970	54.000	-30.030	Vertical
2390.000	24.279	9.730	34.009	54.000	-39.991	Horizontal
2400.000	44.220	9.730	53.950	54.000	-20.050	Horizontal
2386.400	30.008	9.730	39.738	54.000	-34.262	Horizontal
TM1 / CH: H						
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2483.500	25.877	9.910	35.787	54.000	-38.213	Vertical
2496.050	28.027	9.910	37.937	54.000	-36.063	Vertical
2483.500	23.252	9.910	33.162	54.000	-40.838	Horizontal
2495.850	32.090	9.910	42.000	54.000	-32.000	Horizontal

Note:

When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.

Max peak outside radiated emissions limit=93.14dBuV/m-50dB=43.14dBuV/m<15.209 peak

Limit(74dBuV/m) ,Max AV outside radiated emissions limit=83.37dBuV/m-50dB=33.37dBuV/m<15.209 AV Limit(54dBuV/m) ,so 15.209 PEAK/AV Limit are used here.

7. Emissions in restricted frequency bands (below 1GHz)

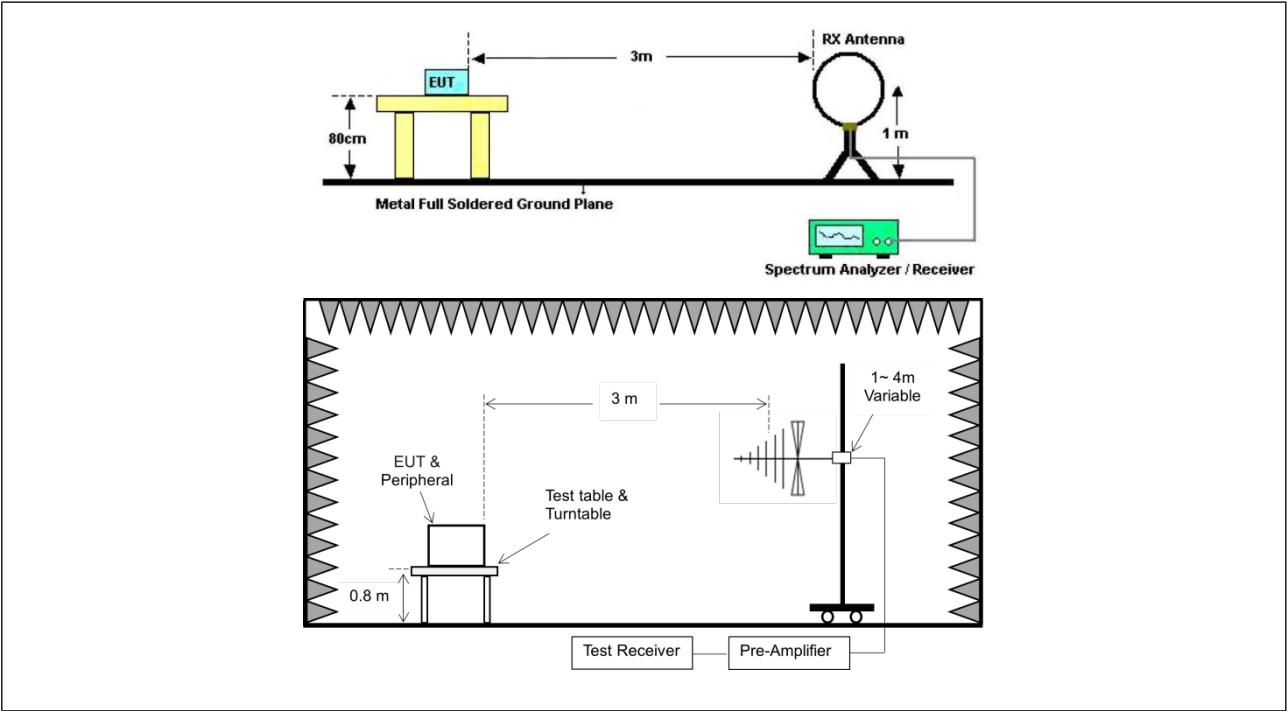
Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)																										
Test Limit:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:																										
	<table><tr><td>Fundamental frequency</td><td>Field strength of fundamental (millivolts/meter)</td><td>Field strength of harmonics (microvolts/meter)</td></tr><tr><td>902-928 MHz</td><td>50</td><td>500</td></tr><tr><td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr><tr><td>5725-5875 MHz</td><td>50</td><td>500</td></tr><tr><td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr></table>			Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	902-928 MHz	50	500	2400-2483.5 MHz	50	500	5725-5875 MHz	50	500	24.0-24.25 GHz	250	2500									
	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)																								
	902-928 MHz	50	500																								
	2400-2483.5 MHz	50	500																								
	5725-5875 MHz	50	500																								
	24.0-24.25 GHz	250	2500																								
	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.																										
	<table><tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>			Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100 **	3	88-216	150 **	3	216-960	200 **	3	Above 960	500	3
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																								
0.009-0.490	2400/F(kHz)	300																									
0.490-1.705	24000/F(kHz)	30																									
1.705-30.0	30	30																									
30-88	100 **	3																									
88-216	150 **	3																									
216-960	200 **	3																									
Above 960	500	3																									
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.																											
In the emission table above, the tighter limit applies at the band edges.																											
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.																											
As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits.																											
However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500																											

	millivolts/meter at 3 meters along the antenna azimuth.
Test Method:	ANSI C63.10-2020 section 6.5
Procedure:	ANSI C63.10-2020 section 6.5

7.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

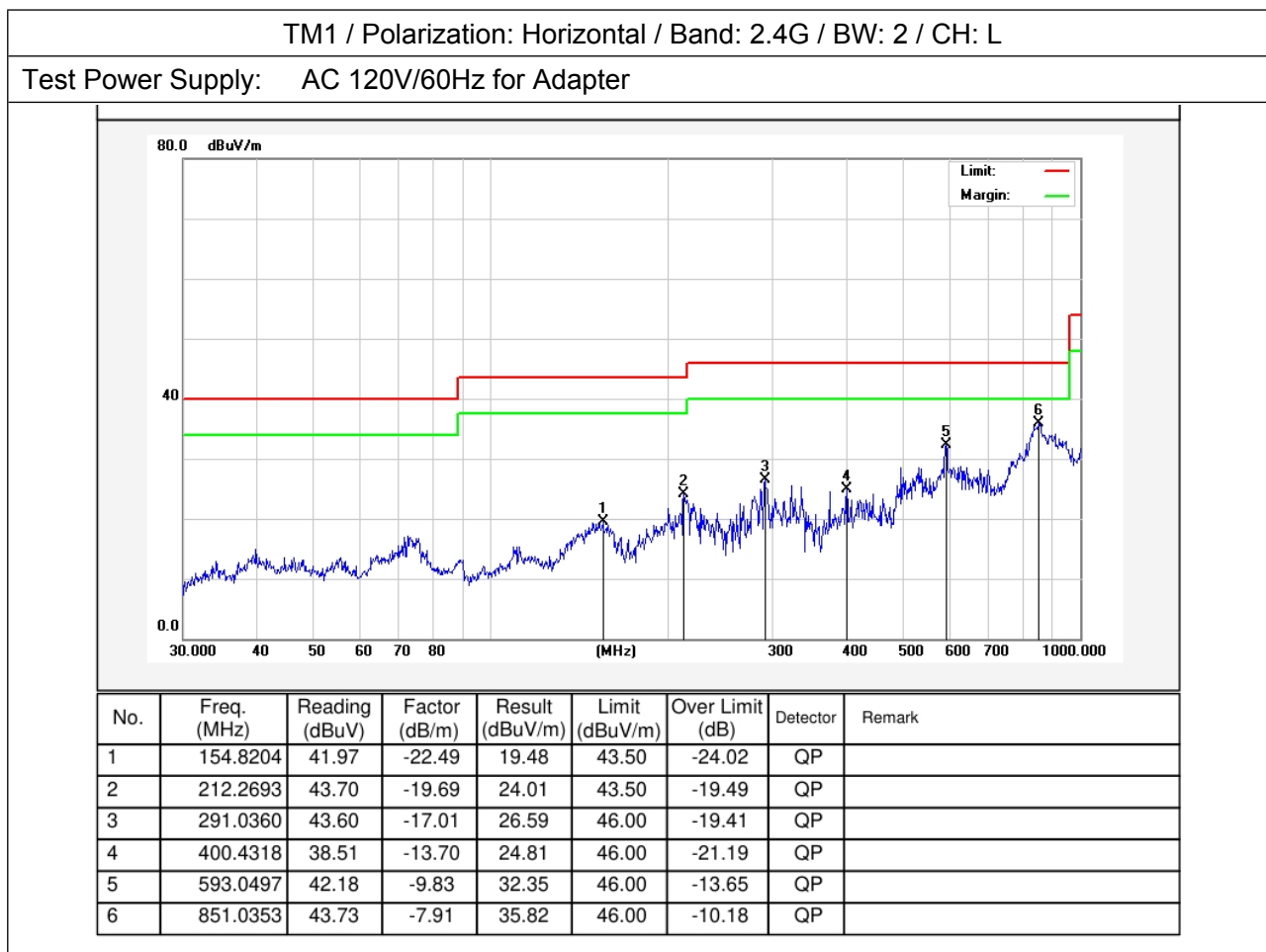
7.2. Test Setup



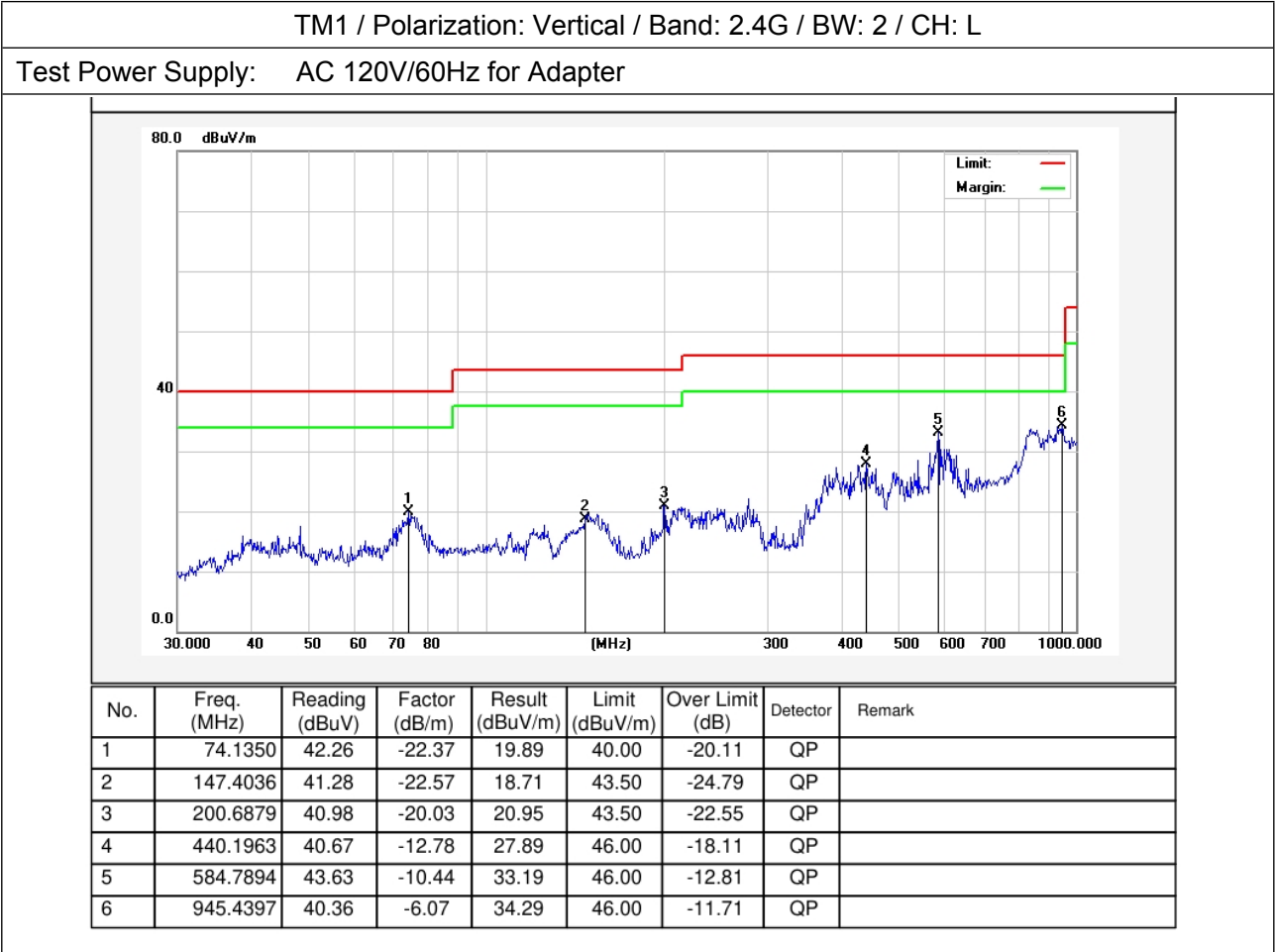
7.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Temperature:	23.3 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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Temperature:	23.3 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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Remark:

Result(dBμV/m) = Reading(dBμV) + Factor(dB/m);

Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)

8. Emissions in restricted frequency bands (above 1GHz)

Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)																										
Test Limit:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:																										
	<table><tr><td>Fundamental frequency</td><td>Field strength of fundamental (millivolts/meter)</td><td>Field strength of harmonics (microvolts/meter)</td></tr><tr><td>902-928 MHz</td><td>50</td><td>500</td></tr><tr><td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr><tr><td>5725-5875 MHz</td><td>50</td><td>500</td></tr><tr><td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr></table>			Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	902-928 MHz	50	500	2400-2483.5 MHz	50	500	5725-5875 MHz	50	500	24.0-24.25 GHz	250	2500									
	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)																								
	902-928 MHz	50	500																								
	2400-2483.5 MHz	50	500																								
	5725-5875 MHz	50	500																								
	24.0-24.25 GHz	250	2500																								
	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.																										
	<table><tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>			Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100 **	3	88-216	150 **	3	216-960	200 **	3	Above 960	500	3
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																								
0.009-0.490	2400/F(kHz)	300																									
0.490-1.705	24000/F(kHz)	30																									
1.705-30.0	30	30																									
30-88	100 **	3																									
88-216	150 **	3																									
216-960	200 **	3																									
Above 960	500	3																									
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.																											
In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.																											
As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500																											

8.3. Test Data

Temperature:	23.3 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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TM1 / CH: L						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.31	15.27	43.58	74.00	-30.42	Vertical
7206.00	28.40	18.09	46.49	74.00	-27.51	Vertical
9608.00	29.21	23.76	52.97	74.00	-21.03	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	27.99	15.27	43.26	74.00	-30.74	Horizontal
7206.00	28.88	18.09	46.97	74.00	-27.03	Horizontal
9608.00	28.05	23.76	51.81	74.00	-22.19	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.58	15.27	31.85	54.00	-22.15	Vertical
7206.00	17.45	18.09	35.54	54.00	-18.46	Vertical
9608.00	18.68	23.76	42.44	54.00	-11.56	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	16.32	15.27	31.59	54.00	-22.41	Horizontal
7206.00	17.91	18.09	36.00	54.00	-18.00	Horizontal
9608.00	17.56	23.76	41.32	54.00	-12.68	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal

TM1 / CH: M						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	26.92	15.27	42.19	74.00	-31.81	Vertical
7320.00	32.34	18.09	50.43	74.00	-23.57	Vertical
9760.00	29.33	23.76	53.09	74.00	-20.91	Vertical
12200.00	*			74.00		Vertical
14640.00	*			74.00		Vertical
4880.00	26.40	15.27	41.67	74.00	-32.33	Horizontal
7320.00	32.81	18.09	50.90	74.00	-23.10	Horizontal
9760.00	31.51	23.76	55.27	74.00	-18.73	Horizontal
12200.00	*			74.00		Horizontal
14640.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	18.08	15.27	33.35	54.00	-20.65	Vertical
7320.00	16.11	18.09	34.20	54.00	-19.80	Vertical
9760.00	17.90	23.76	41.66	54.00	-12.34	Vertical
12200.00	*			54.00		Vertical
14640.00	*			54.00		Vertical
4880.00	13.92	15.27	29.19	54.00	-24.81	Horizontal
7320.00	17.18	18.09	35.27	54.00	-18.73	Horizontal
9760.00	17.81	23.76	41.57	54.00	-12.43	Horizontal
12200.00	*			54.00		Horizontal
14640.00	*			54.00		Horizontal

Shenzhen Anbotek Compliance Laboratory Limited

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Hotline: 400-003-0500 web: www.anbotek.com E-mail: service@anbotek.com

TM1 / CH: H						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	31.07	15.27	46.34	74.00	-27.66	Vertical
7440.00	28.23	18.09	46.32	74.00	-27.68	Vertical
9920.00	32.27	23.76	56.03	74.00	-17.97	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	26.81	15.27	42.08	74.00	-31.92	Horizontal
7440.00	32.24	18.09	50.33	74.00	-23.67	Horizontal
9920.00	27.87	23.76	51.63	74.00	-22.37	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	15.50	15.27	30.77	54.00	-23.23	Vertical
7440.00	18.67	18.09	36.76	54.00	-17.24	Vertical
9920.00	16.48	23.76	40.24	54.00	-13.76	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	14.24	15.27	29.51	54.00	-24.49	Horizontal
7440.00	21.56	18.09	39.65	54.00	-14.35	Horizontal
9920.00	19.37	23.76	43.13	54.00	-10.87	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

Remark:

1. Result =Reading + Factor
2. Test frequency are from 1GHz to 25GHz, "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----