

FCC Test Report

Report No. : 1813C50233212501

Applicant : Shenzhen Divoom Technology Co., LTD.

Address : Unit 1203-06, Building 6B, Convention Bay
Zhonggang Plaza, No.83, Zhanjing Zhancheng
Community, Fuhai Street, Bao An District,
Shenzhen, Guangdong, China

Product Name : GaN Fast Charger

Report Date : 2025-07-24

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Shenzhen Divoom Technology Co., LTD.
Manufacturer : Shenzhen Divoom Technology Co., LTD.
Product Name : GaN Fast Charger
Model No. : Dipow-35
Trade Mark : DIVOOM
Rating(s) : Input: 100-240V AC, 50/60Hz, 1.0A Max
Output: TYPE-C: 5V=3A, 9V=3A, 12V=2.75A, 15V=2.3A, 20V=1.75A
(35W Max)
**Test Standard(s) : 47 CFR Part 15.247
ANSI C63.10-2020
KDB 558074 D01 15.247 Meas Guidance v05r02**

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: 2025-05-22

Date of Test: 2025-05-22 to 2025-06-27

Prepared By:

Cecilia Chen

(Cecilia Chen)

Approved & Authorized Signer:

Hugo Chen

(Hugo Chen)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.(Note 1)	2025-07-24

Note 1:
This is a Class II application which was based on the original report 1813C40144412501. The difference between the original device and current one described as following:

- 1. Change the Change a few parts of the main board.
- 2. Change the company address of Applicant.

Based on the change made to the device, only Conducted Emission at AC power line and Emissions in restricted frequency bands (below 1GHz) were retested.

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Divoom Technology Co., LTD.
Address	:	Unit 1203-06, Building 6B, Convention Bay Zhonggang Plaza, No.83, Zhanjing Zhancheng Community, Fuhai Street, Bao An District, Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Divoom Technology Co., LTD.
Address	:	Unit 1203-06, Building 6B, Convention Bay Zhonggang Plaza, No.83, Zhanjing Zhancheng Community, Fuhai Street, Bao An District, Shenzhen, Guangdong, China
Factory	:	Zhongsentai Technology (Shenzhen) Co, Ltd
Address	:	3rd and ZoneA 4th floors of Building 12, Changxing Science and Technology Park, Wan'an Road, Shayi Community, Shajing Street, Bao'an District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	GaN Fast Charger
Model No.	:	Dipow-35
Trade Mark	:	DIVOOM
Test Power Supply	:	AC 120V/60Hz
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, $\pi/4$ DQPSK, 8DPSK
Antenna Type	:	Chip Antenna
Antenna Gain(Peak)	:	2.06dBi
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.
/	/	/	/


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	-	-

Shenzhen Anbotek Compliance Laboratory Limited

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Tel:(86)0755-26066440 Email: service@anbotek.com

 Hotline
400-003-0500
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1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TM5	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
TM6	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
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. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1,2,3	P
Maximum Conducted Output Power	Mode1,2,3	P
Emissions in restricted frequency bands (below 1GHz)	Mode1,2,3	P
Note: P: Pass N: N/A, not applicable		

1.8. 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.

1.9. 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.



1.10. 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	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2025-01-13	2026-01-12
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2024-09-09	2025-09-08

Maximum Conducted Output Power						
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	1804D360 510	2024-09-09	2025-09-08
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	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	MY474206 47	2024-02-04	2025-02-03

Emissions in restricted frequency bands (below 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2025-01-14	2026-01-13
2	Pre-amplifier	SONOMA	310N	186860	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	/	/

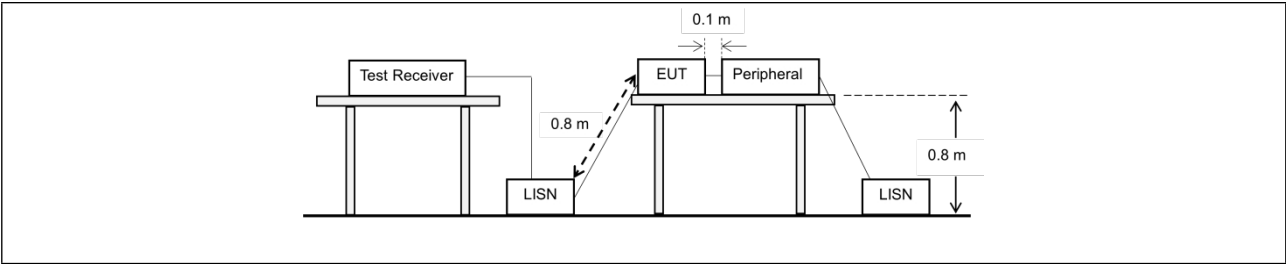
2. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), 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		

2.1. EUT Operation

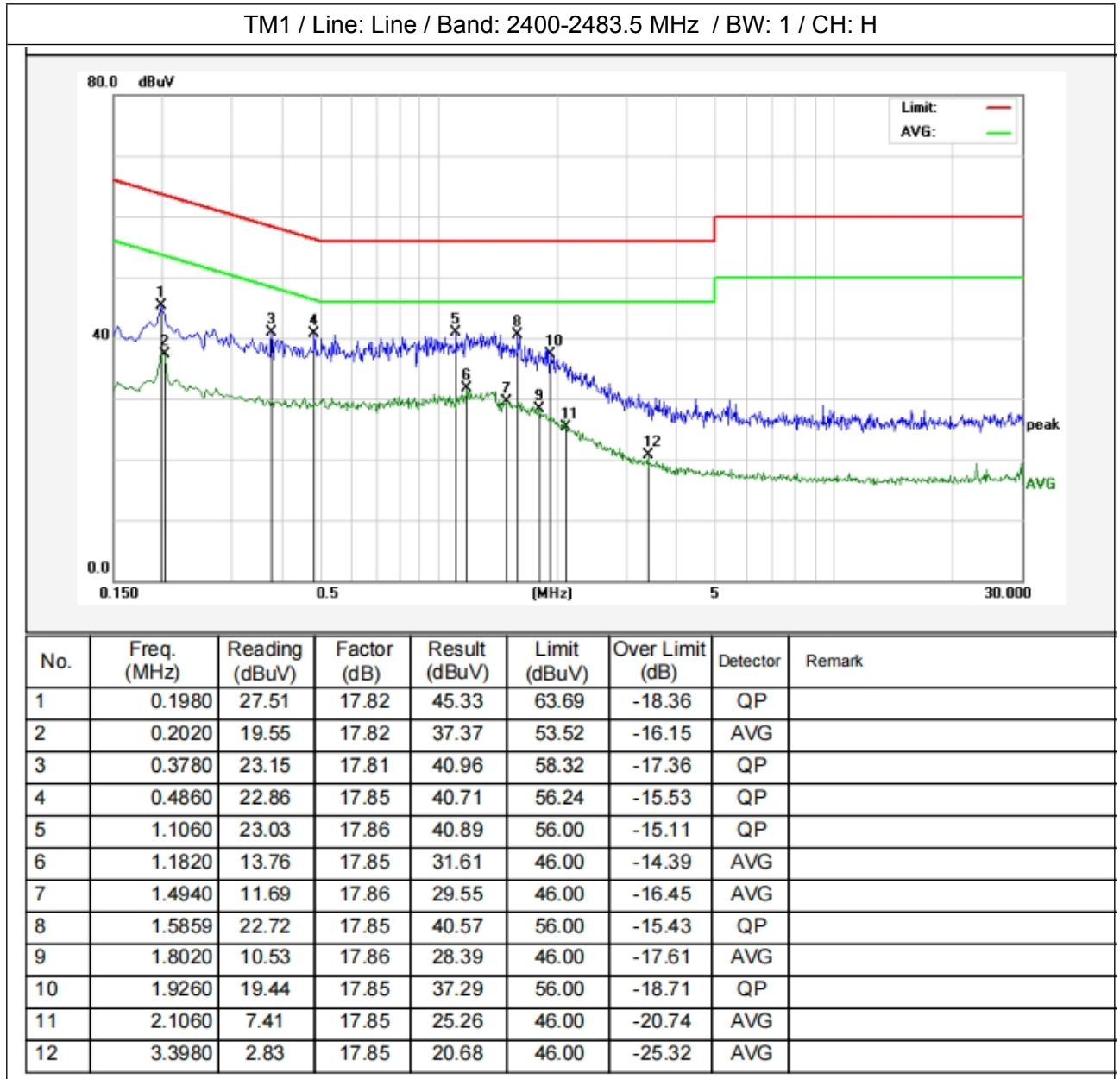
Operating Environment:	
Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- $\pi/4$ -DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

2.2. Test Setup



2.3. Test Data

Temperature:	24.6 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
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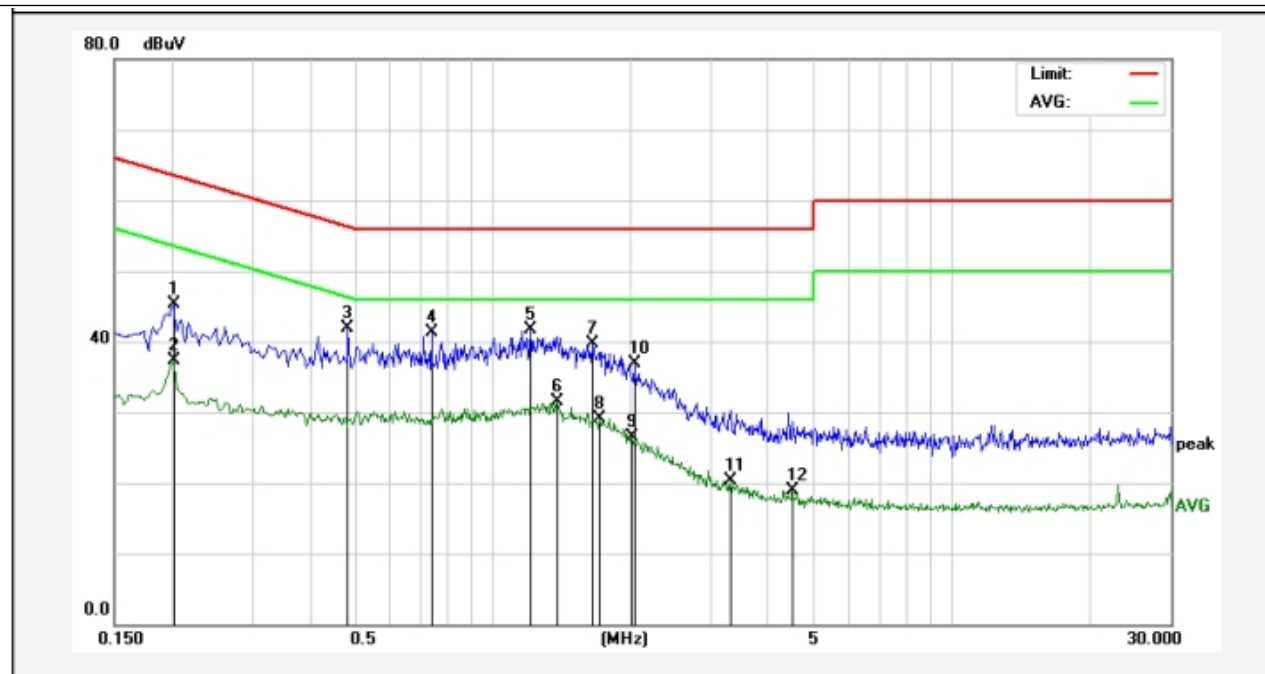
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Hotline
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Temperature:	24.6 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
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TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: H



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2020	27.45	17.82	45.27	63.52	-18.25	QP	
2	0.2020	19.41	17.82	37.23	53.52	-16.29	AVG	
3	0.4860	23.99	17.85	41.84	56.24	-14.40	QP	
4	0.7380	23.53	17.87	41.40	56.00	-14.60	QP	
5	1.2100	23.77	17.85	41.62	56.00	-14.38	QP	
6	1.3860	13.64	17.86	31.50	46.00	-14.50	AVG	
7	1.6460	21.79	17.85	39.64	56.00	-16.36	QP	
8	1.7100	11.22	17.85	29.07	46.00	-16.93	AVG	
9	2.0140	8.57	17.85	26.42	46.00	-19.58	AVG	
10	2.0340	19.00	17.85	36.85	56.00	-19.15	QP	
11	3.3020	2.49	17.85	20.34	46.00	-25.66	AVG	
12	4.4940	1.11	17.85	18.96	46.00	-27.04	AVG	

Note:

1. Only record the worst data in the report.
2. $\text{Result(dBuV)} = \text{Reading(dBuV)} + \text{Factor(dB)}$;
 $\text{Over Limit(dB)} = \text{Result(dBuV)} - \text{Limit(dBuV)}$



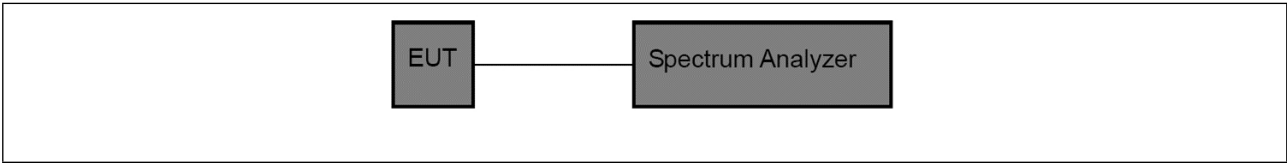
3. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	<p>This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report. <p>NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.</p>

3.1. EUT Operation

Operating Environment:	
Test mode:	<ul style="list-style-type: none"> 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-$\pi/4$-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

3.2. Test Setup



3.3. Test Data

Temperature:	24.9 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa
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Pass
Note: For pre-scan, the result is equal to original, so the original data is referenced.

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.65	≤20.97	PASS
DH5	Ant1	2441	-2.82	≤20.97	PASS
DH5	Ant1	2480	-2.67	≤20.97	PASS
2DH5	Ant1	2402	-3.64	≤20.97	PASS
2DH5	Ant1	2441	-2.85	≤20.97	PASS
2DH5	Ant1	2480	-2.92	≤20.97	PASS
3DH5	Ant1	2402	-3.72	≤20.97	PASS
3DH5	Ant1	2441	-2.78	≤20.97	PASS
3DH5	Ant1	2480	-2.80	≤20.97	PASS

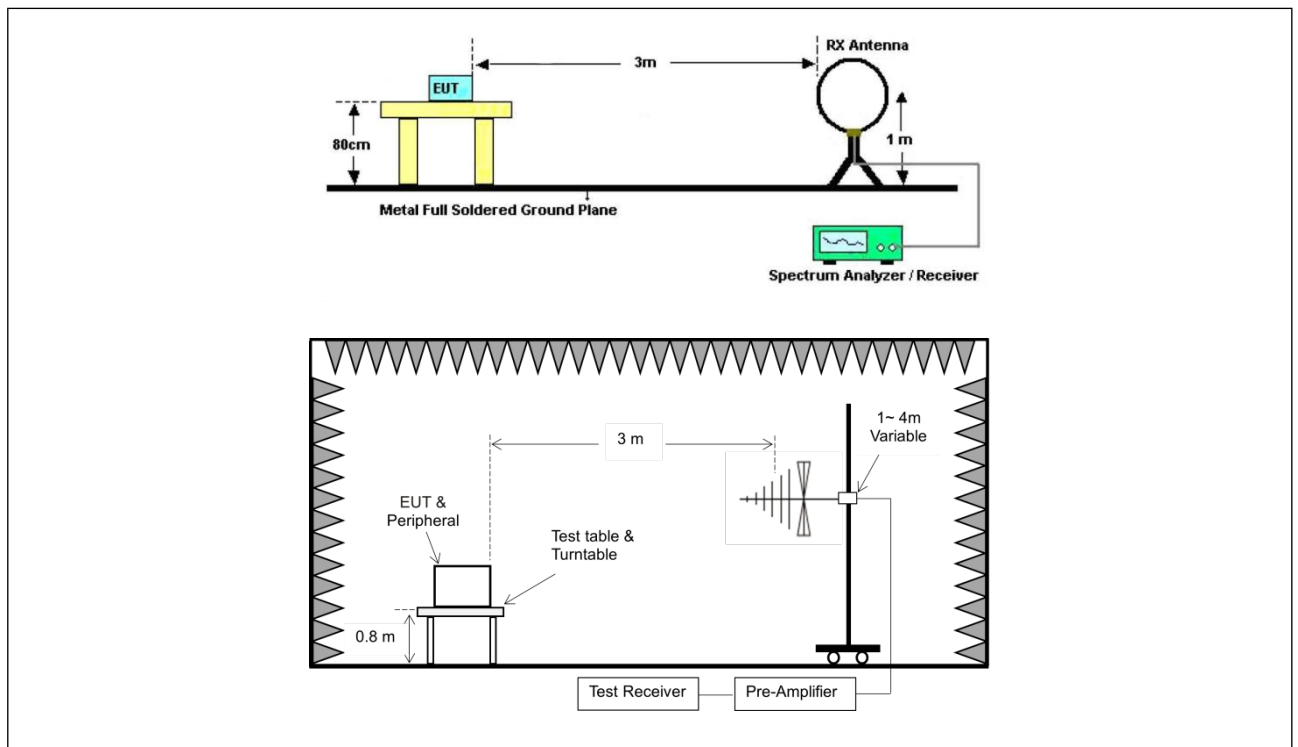
4. Emissions in restricted frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	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
	<p>** 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.</p> <p>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.</p>		
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.6.4		

4.1. EUT Operation

Operating Environment:	
Test mode:	<p>1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.</p> <p>2: TX-$\pi/4$-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.</p> <p>3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.</p>

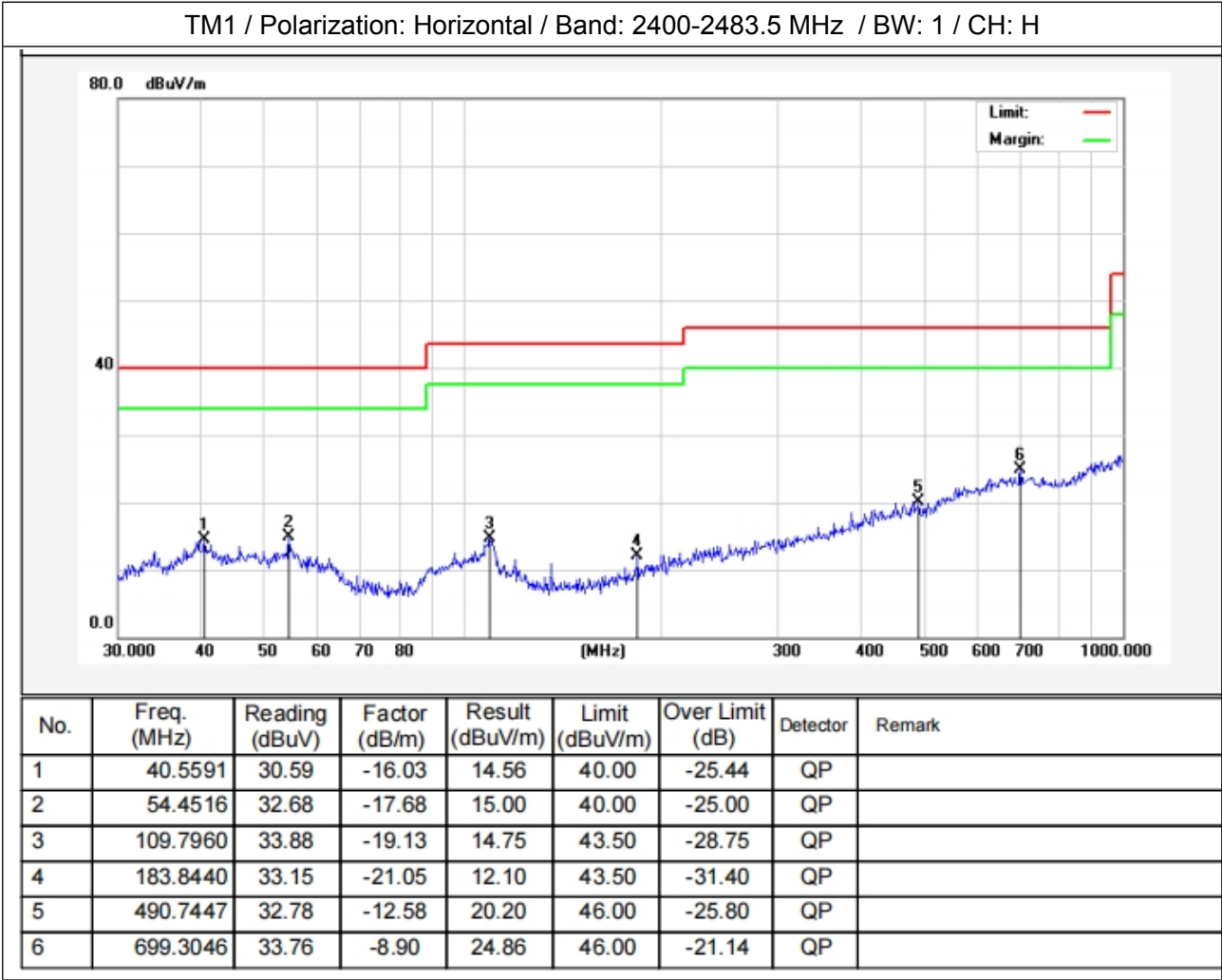
4.2. Test Setup



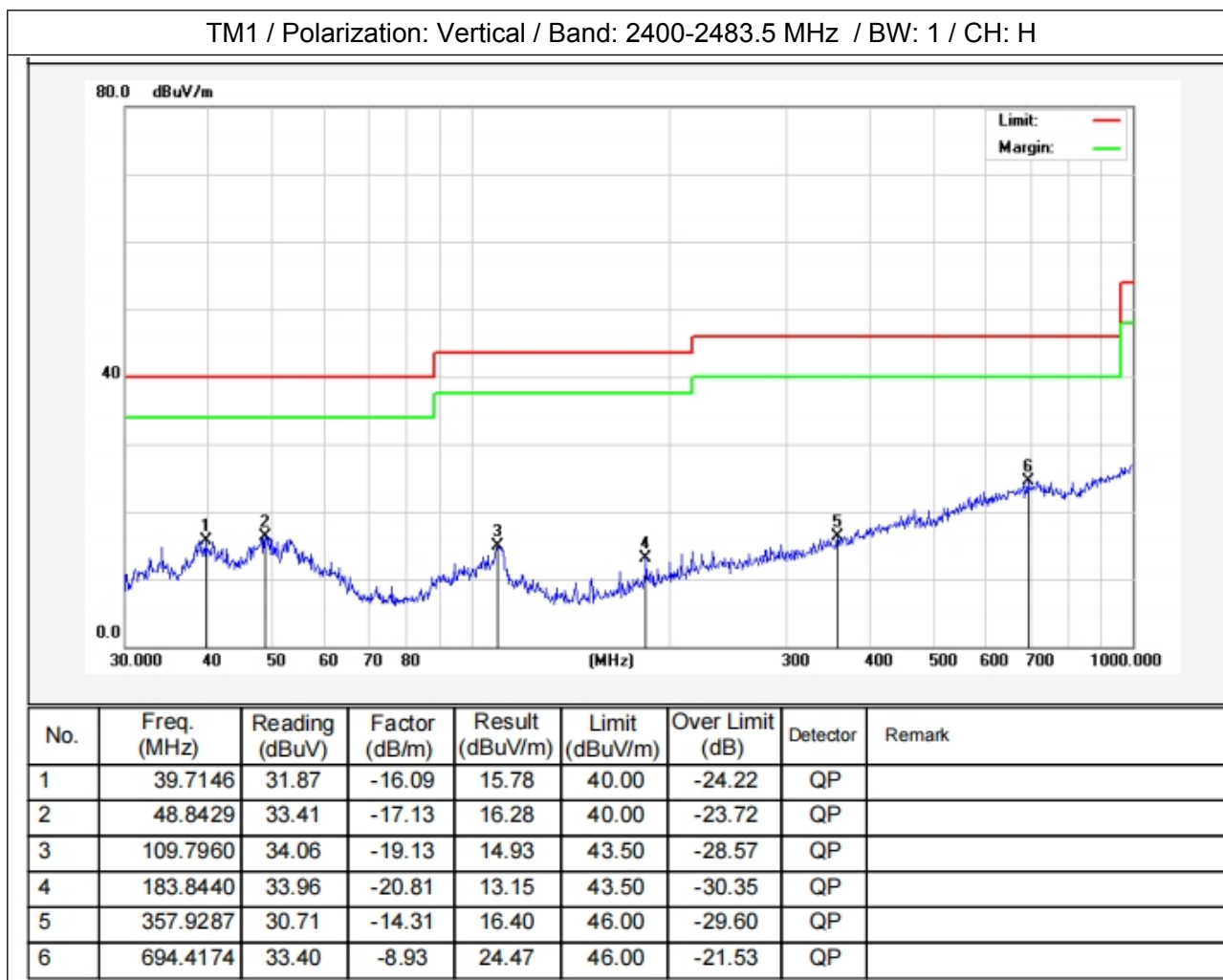
4.3. Test Data

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:	25.1 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
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Temperature:	25.1 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
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Note:

1. Only record the worst data in the report.
2. $\text{Result(dBuV/m)} = \text{Reading(dBuV)} + \text{Factor(dB/m)}$;
 $\text{Over Limit(dB)} = \text{Result(dBuV/m)} - \text{Limit(dBuV/m)}$



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 -----

