

FCC Test Report

Applicant	: D2G Group LLC	
Address	81 Commerce Drive, Fall River, Massachusetts, United States	_
Product Name	: 49inch PCAP Touch Kiosk	
Report Date	: Nov. 27, 2024	_









Contents

1. General Information	6
 1.1. Client Information	
2. Antenna requirement	
2.1. Conclusion	
3. Conducted Emission at AC power line	
3.1. EUT Operation 3.2. Test Setup 3.3. Test Data	
4. 6dB Bandwidth	
4.1. EUT Operation4.2. Test Setup4.3. Test Data	
5. Maximum Conducted Output Power	17
5.1. EUT Operation 5.2. Test Setup 5.3. Test Data	
6. Power Spectral Density	
6.1. EUT Operation 6.2. Test Setup 6.3. Test Data	
7. Emissions in non-restricted frequency bands	
7.1. EUT Operation 7.2. Test Setup 7.3. Test Data	
8. Band edge emissions (Radiated)	
8.1. EUT Operation 8.2. Test Setup 8.3. Test Data	
9. Emissions in frequency bands (below 1GHz)	
9.1. EUT Operation 9.2. Test Setup 9.3. Test Data	23
10. Emissions in frequency bands (above 1GHz)	

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10.1. EUT Operation	
10.2. Test Setup	
10.3. Test Data	
APPENDIX I TEST SETUP PHOTOGRAPH	
APPENDIX II EXTERNAL PHOTOGRAPH	
APPENDIX III INTERNAL PHOTOGRAPH	

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TEST REPORT

Test Standard(s)		47 CFR Part 15.247 KDB 558074 D01 15 247 Meas Guidance v05r02
Rating(s)	:	Input: AC100-240V, 0.7-1.5A, 50/60Hz, 140W Max.
Trade Mark	:	Displays2go
Model No.	:	DK049CLB, DK049CLW
Product Name	:	49inch PCAP Touch Kiosk
Manufacturer	:	Shenzhen I-Pivot Intelligent Technology Co., Ltd
Applicant	:	D2G Group LLC

Test Standard(s) : KDB 558074 D01 15.247 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:

Date of Test:

Prepared By:

Nov. 11, 2024

Nov. 11, 2024 to Nov. 25, 2024

Cecilia Chen

(Cecilia Chen)

(KingKong Jin)



Approved & Authorized Signer:







Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 27, 2024

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1. General Information

1.1. Client Information

Applicant	:	D2G Group LLC
Address	:	81 Commerce Drive, Fall River, Massachusetts, United States
Manufacturer	:	Shenzhen I-Pivot Intelligent Technology Co., Ltd
Address	2nd Floor, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd Longgang District, Shenzhen, Guangdong, China	
Factory	:	Shenzhen I-Pivot Intelligent Technology Co., Ltd
Address	:	2nd Floor, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd, Longgang District, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	49inch PCAP Touch Kiosk		
Model No.	:	DK049CLB, DK049CLW (Note: All samples are the same except the model number and appearance color, so we prepare "DK049CLB" for test only.)		
Trade Mark	:	Displays2go		
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	:	40		
Modulation Type	:	GFSK		
Antenna Type	:	Rod Antenna		
Antenna Gain(Peak)	:	4.92dBi		
 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	/	/	1

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1	Keep the EUT works in continuously transmitting mode (BLE 1M)
TM2	Keep the EUT works in continuously transmitting mode (BLE 2M)







1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The measurement uncertainty and decision risk ev	aluated 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
Antenna requirement	/	Р
Conducted Emission at AC power line	Mode1,2	Р
6dB Bandwidth	Mode1,2	Р
Maximum Conducted Output Power	Mode1,2	Р
Power Spectral Density	Mode1,2	Р
Emissions in non-restricted frequency bands	Mode1,2	Р
Band edge emissions (Radiated)	Mode1,2	Р
Emissions in frequency bands (below 1GHz)	Mode1,2	Р
Emissions in frequency bands (above 1GHz)	Mode1,2	Р
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.:434132

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. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

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.

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

Cond	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	2024-01-17	2025-01-16
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

Maxir Powe	6dB Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands					
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

	Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
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	J21106062 8	2024-01-22	2027-01-21
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

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Emissions in frequency bands (below 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
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 Rod antenna which permanently attached, and the best case gain of the antenna is 4.92dBi. It complies with the standard requirement.







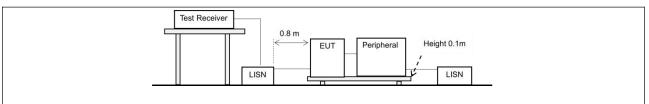
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Exception, for an intentional radiator public utility (AC) power line, the reback onto the AC power line on are band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage th ny frequency or frequencies t exceed the limits in the	nnected to the at is conducted es, within the following table, as		
	Frequency of emission (MHz)	Conducted limit (dBµV)			
		Quasi-peak	Average		
·	0.15-0.5	66 to 56*	56 to 46*		
Test Limit:	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 line conducted emissions from un				

3.1. EUT Operation

Operating Environment:				
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)			

3.2. Test Setup

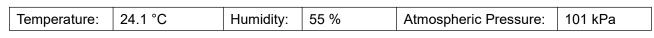


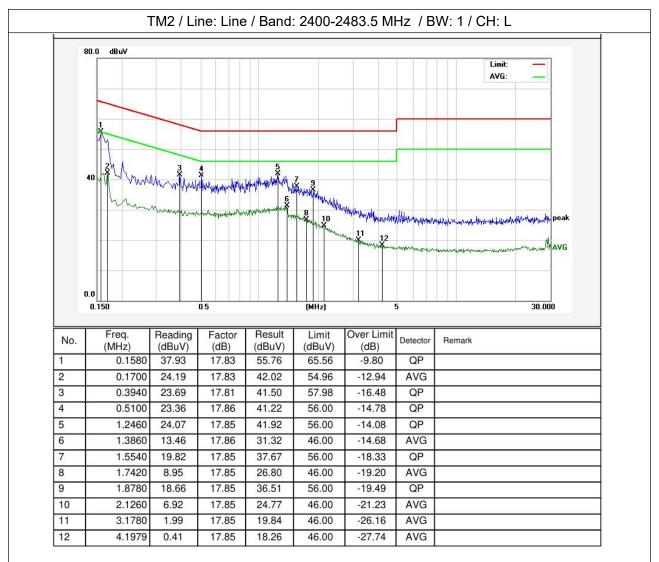






3.3. Test Data



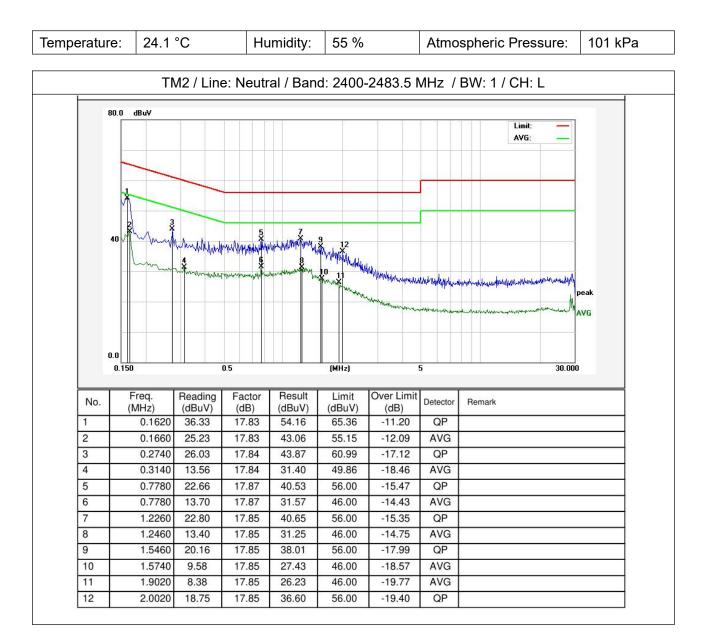


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Note: Only record the worst data in the report.







4. 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	 11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing 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 "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude". If a marker is below this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

4.1. EUT Operation

Operating Environment:					
	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M)				
Test mode:	2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)				

4.2. Test Setup

EUT Spectrum Analyzer	
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4.3. Test Data

Temperature: 24.6 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

5.1. EUT Operation

Operating Environment:			
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M)		
Test mode:	2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)		

5.2. Test Setup

EUT Spectrum Analyzer		EUT	Spectrum Analyzer	
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5.3. Test Data

Temperature:	24.6 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
		-		•	

Please Refer to Appendix for Details.







6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

6.1. EUT Operation

Operating Environment:			
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)		

6.2. Test Setup

EUT Spectrum Analyzer

6.3. Test Data

Temperature:24.6 °CHumidity:49 %Atmospheric Pressure:101 kPa	

Please Refer to Appendix for Details.







7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

7.1. EUT Operation

Operating Environment:			
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)		

7.2. Test Setup

EUT Spectrum Analyzer

7.3. Test Data

Temperature	24.6 °C	Humidity	49 %	Atmospheric Pressure:	101 kPa
Temperature.	24.0 0	riumuny.	43 /0	Autospheric i tessure.	IUIKIA

Please Refer to Appendix for Details.







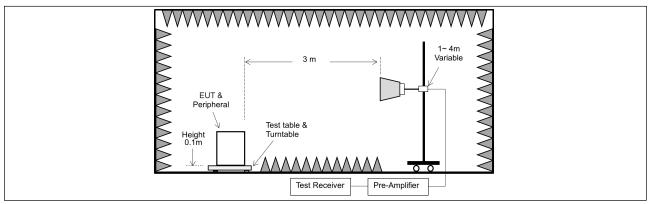
8. Band edge emissions (Radiated)

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)).				
	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		
Test Limit:	 ** 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 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02				
Procedure:	ANSI C63.10-2020 section	on 6.10.5.2			

8.1. EUT Operation

Operating Envir	Operating Environment:					
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)					

8.2. Test Setup



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8.3. Test Data

Temperature:	24.6 °C	Humidity:	49 %	0	Atmosph	eric Pressure:	101 kPa
			TMO /	<u>сн. і</u>			
			TM2 /				
Spectrum Ref Level 107.00 dBµV	RBW 1 MHz			Spectrum Ref Level 107.00	40.00	RBW 1 MHz	
	15.1 µs = VBW 3 MHz Mode Auto	FFT		 Att SGL Count 91/100 	ивру 10 dB SWT 15.1 µs 🖷		
●1Pk Max		- 1		●1Pk Max			00 77 10 11
100 dBµV	M1[1] 2	33.62 dBµV .390000 GHz	100 dBµV		M1[1]	33.77 dBµ¥ 2.390000 GHz
90 dBµV			IA -	90 dBµV			
80 dBµV				80 dBµV			
D1 74.000 dBµV				D1 74.0	00 dвµV		
60 dBµV				60 dBµV			
50 dBµV-				50 dBµV			
40 dBµV				40 dBµV			
mann	mann	M1 mm		hann	mm	man man and man	mm w
30 dBµV				30 dBμV	Ĭ		
20 dBµV				20 dBµV			
10 dBµV Start 2.31 GHz	691 pts	Sto	op 2.41 GHz	10 dBµV Start 2.31 GHz		691 pts	Stop 2.41 GHz
Marker Type Ref Trc X-valu	ue Y-value Functio	on Function Resu	ult I	Marker Type Ref Trc	X-value	Y-value Function	Function Result
M1 1 2	2.39 GHz 33.62 dBµV			M1 1	2.39 GHz	33.77 dBµV	
		Ready Ready				Meas	uring 🚺 🎶 ///
	Peak Value(Vert	ical)			Peak	Value(Horizont	al)
	Υ.					•	,
			TM2 /	сн. н			
Spectrum			T WI∠ 7	Spectrum			 (□□ □
Ref Level 107.00 dBµV	 RBW 1 MHz 3.8 µs VBW 3 MHz Mode Auto I 	FFT	(*)	Ref Level 107.00		RBW 1 MHz VBW 3 MHz Mode Auto FFT	[*
SGL Count 100/100	in provide the interview in the interview interv			SGL Count 100/100		indus haterni	
100 dBµV	M1[1]	37.70 dBµV 1835000 GHz	100 dBµV		M1[1]	35.42 dBµY 2.4835000 GHz
		2			\rightarrow		2.4033000 GHz
90 dBµV				90 dBµV			
80 dBµV /				80 dBµV D1 74.0	00 dBµV		
70 dBµV				70 dBµV			
60 dBµV			+	60 dBµV	+ $+$ $+$		
50 dBµV			+	50 dBµV	+ \		
40 dBµV				40 dBµV			
30 dBµV			+	30 dBµV	+		
20 dBµV				20 dBµV			
10 dBµV				10 dBµV			
Start 2.475 GHz Marker	691 pts	S	top 2.5 GHz	Start 2.475 GHz Marker		691 pts	Stop 2.5 GHz
Type Ref Trc X-valu	ue Y-value Functio 835 GHz 37.70 dBµV]	Type Ref Trc M1 1	X-value 2.4835 GHz	Y-value Function	Function Result
		Ready (1999)				R	rady.
	Peak Value(Vert	ical)			Peak	Value(Horizont	al)
L	•	•		1		•	

Remark:

1. During the test, pre-scan all modes, the report only record the worse case mode.

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







9. Emissions in 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)).						
	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				
Test Limit:	 ** 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 KDB 558074 D01 15.247 Meas Guidance v05r02						
Procedure:	ANSI C63.10-2020 secti	on 6.6.4					

9.1. EUT Operation

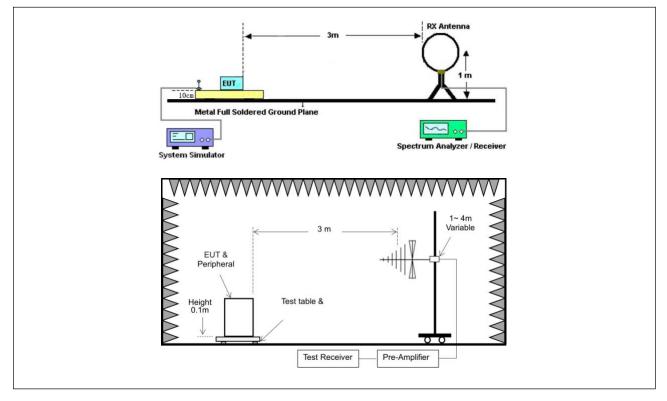
Operating	Operating Environment:					
Test mod	de:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE				
2. TX mode(BLE 2M). Reep the EOT works in continuously transmitting mode (BLE 2M)						







9.2. Test Setup



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9.3. Test Data

2

3

4

5

6

147.4036

171.3925

417.6409

501.1788

584.7894

55.01

50.17

46.97

42.91

47.25

-22.30

-21.33

-12.93

-12.18

-9.57

32.71

28.84

34.04

30.73

37.68

43.50

43.50

46.00

46.00

46.00

-10.79

-14.66

-11.96

-15.27

-8.32

QP

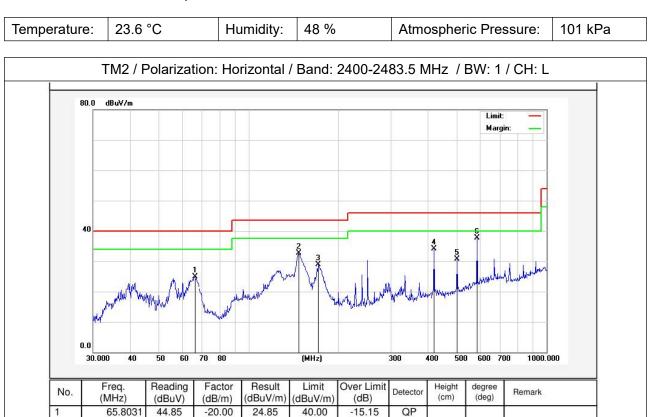
QP

QP

QP

QP

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

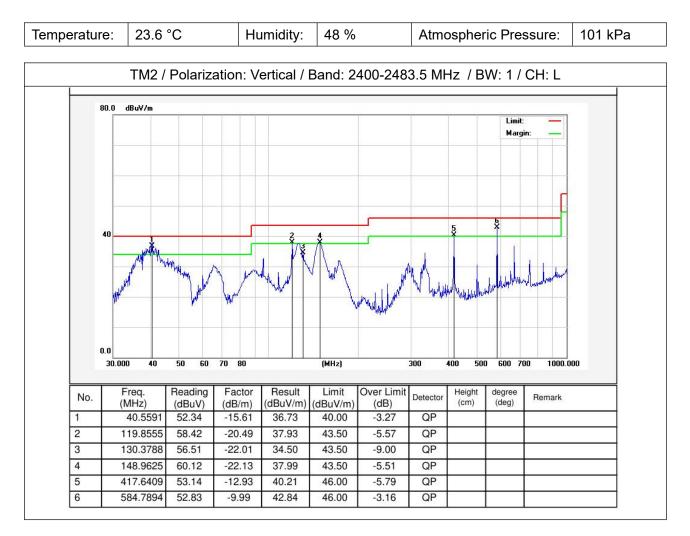


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Note:Only record the worst data in the report.







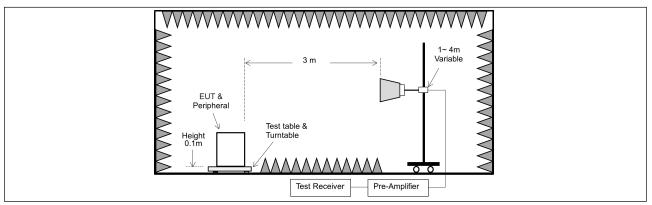
10. Emissions in frequency bands (above 1GHz)

Test Requirement:	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:							
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					

10.1. EUT Operation

Operating Envi	Operating Environment:					
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)					

10.2. Test Setup



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10.3. Test Data

Temperature:	24.6 °C	Humidity:	49 %	Atmospheric	Pressure:	101 kPa
			TM2 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatior
4804.00	29.60	15.27	44.87	74.00	-29.13	Vertical
7206.00	29.47	18.09	47.56	74.00	-26.44	Vertical
9608.00	30.71	23.76	54.47	74.00	-19.53	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	29.17	15.27	44.44	74.00	-29.56	Horizontal
7206.00	30.42	18.09	48.51	74.00	-25.49	Horizontal
9608.00	28.60	23.76	52.36	74.00	-21.64	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)	polarizatior
4804.00	17.87	15.27	33.14	54.00	-20.86	Vertical
7206.00	18.52	18.09	36.61	54.00	-17.39	Vertical
9608.00	20.18	23.76	43.94	54.00	-10.06	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	17.50	15.27	32.77	54.00	-21.23	Horizontal
7206.00	19.45	18.09	37.54	54.00	-16.46	Horizontal
9608.00	18.11	23.76	41.87	54.00	-12.13	Horizontal
12010.00	*			54.00		Horizonta
14412.00	*			54.00		Horizontal







	TM2 / CH: M						
Peak value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization	
4880.00	29.15	15.42	44.57	74.00	-29.43	Vertical	
7320.00	29.44	18.02	47.46	74.00	-26.54	Vertical	
9760.00	30.21	23.80	54.01	74.00	-19.99	Vertical	
12200.00	*			74.00		Vertical	
14640.00	*			74.00		Vertical	
4880.00	28.98	15.42	44.40	74.00	-29.60	Horizontal	
7320.00	30.29	18.02	48.31	74.00	-25.69	Horizontal	
9760.00	28.32	23.80	52.12	74.00	-21.88	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	17.96	15.42	33.38	54.00	-20.62	Vertical	
7320.00	18.38	18.02	36.40	54.00	-17.60	Vertical	
9760.00	20.03	23.80	43.83	54.00	-10.17	Vertical	
12200.00	*			54.00		Vertical	
14640.00	*			54.00		Vertical	
4880.00	17.61	15.42	33.03	54.00	-20.97	Horizontal	
7320.00	19.80	18.02	37.82	54.00	-16.18	Horizontal	
9760.00	18.41	23.80	42.21	54.00	-11.79	Horizontal	
12200.00	*			54.00		Horizontal	
14640.00	*			54.00		Horizontal	







	TM2 / CH: H						
Peak value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization	
4960.00	29.28	15.58	44.86	74.00	-29.14	Vertical	
7440.00	29.60	17.93	47.53	74.00	-26.47	Vertical	
9920.00	30.91	23.83	54.74	74.00	-19.26	Vertical	
12400.00	*			74.00		Vertical	
14880.00	*			74.00		Vertical	
4960.00	29.12	15.58	44.70	74.00	-29.30	Horizontal	
7440.00	30.50	17.93	48.43	74.00	-25.57	Horizontal	
9920.00	28.70	23.83	52.53	74.00	-21.47	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	19.08	15.58	34.66	54.00	-19.34	Vertical	
7440.00	19.65	17.93	37.58	54.00	-16.42	Vertical	
9920.00	20.68	23.83	44.51	54.00	-9.49	Vertical	
12400.00	*			54.00		Vertical	
14880.00	*			54.00		Vertical	
4960.00	18.79	15.58	34.37	54.00	-19.63	Horizontal	
7440.00	20.60	17.93	38.53	54.00	-15.47	Horizontal	
9920.00	18.56	23.83	42.39	54.00	-11.61	Horizontal	
12400.00	*			54.00		Horizontal	
14880.00	*			54.00		Horizontal	

Remark:

1. Result =Reading + Factor

- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.
- 3. Only the worst case is recorded 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 ------

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