Report No.: POCE231207006RF001 **RF TEST REPORT** Dongguan Lingjie Electronics & Technology Co., Ltd **Product Name: Wireless keyboard** Test Model(s).: K788 **Report Reference No.** POCE231207006RF001 FCC ID 2ANBU-K788 Dongguan Lingjie Electronics & Technology Co., Ltd **Applicant's Name** Building 3, No. 23 Zhenxing North Road, Taiyuan Community, Xiegang Address Town, Dongguan City, Guangdong Province, 523590, P.R.C. **Testing Laboratory** Shenzhen POCE Testing Technology Co., Ltd. 101-102, H5 Building & floor 1, Building H, Hongfa Science and Address Technology Park, Tangtou, Shiyan, Bao'An District, Shenzhen, China Test Specification Standard 47 CFR Part 15.249 & ANSI C63.10-2013 December 7, 2023 **Date of Receipt** Date of Test December 7, 2023 to December 14, 2023 Data of Issue December 14, 2023 Result Pass Note: This report shall not be reproduced except in full, without the written approval of Shenzhen POCE

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Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	POCE231207006RF001	December 14, 2023
	<u> </u>		

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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Approved by: *Tom Chen* Tom Chen / Manager



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1 TEST SUMMARY

1.1 Test Standards

POCE

The tests were performed according to following standards:

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47 CFR Part 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHZ, and 24.0-24.25 GHz

1.2 Summary of Test Result

-				
Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15.249		47 CFR Part 15.203	Pass
Occupied Bandwidth	47 CFR Part 15.249	ANSI C63.10-2013, section 6.9.2	47 CFR 15.215(c)	Pass
Field strength of fundamental	47 CFR Part 15.249	ANSI C63.10-2013 section 6.6	47 CFR 15.249(a) 47 CFR 15.249(b)(1)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.249	ANSI C63.10-2013 section 6.6.4	47 CFR 15.249(d)	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.249	ANSI C63.10-2013 section 6.5	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.249	ANSI C63.10-2013 section 6.6	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)	Pass

Note: 1.N/A -this device(EUT) is not applicable to this testing item 2. RF-conducted test results including cable loss.

 2
 GENERAL INFORMATION

 2.1
 Client Information

 Applicant's Name
 : Dongguan Lingjie Electronics & Technology Co., Ltd

 Address
 : Building 3, No. 23 Zhenxing North Road, Taiyuan Community, Xiegang Town, Dongguan City, Guangdong Province, 523590, P.R.C.

 Manufacturer
 : Dongguan Lingjie Electronics & Technology Co., Ltd

Dongguan City, Guangdong Province, 523590, P.R.C.

Building 3, No. 23 Zhenxing North Road, Taiyuan Community, Xiegang Town,

2.2 Description of Device (EUT)

Address

Wireless keyboard
Q231204013-1
K788
K783, K786, K789, CKW350US, CKW350UK, CKW350FR, CKW350DE, CKW350ES, CKW350IT, KW350US, KW350UK, KW350FR, KW350DE, KW350ES, KW350IT
There are many models of this product, the appearance color and keyboard- keys shape are different, resulting in a different name. Everything else is the same(BOM,PCB,ANT), which does not affect the EMC and RF performance of the product, so test model is K788
N/A
keyboard
DC1.5V
2403.852479.85MHz
16
GFSK
PCB ANTENNA
1.8dBi
V1.1
1

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2403.85MHz	5	2422.85MHz	9	2441.85MHz	13	2463.85MHz
2	2407.85MHz	6	2426.85MHz	10	2445.85MHz	14	2466.85MHz
3	2414.85MHz	7	2436.85MHz	11	2453.85MHz	15	2473.85MHz
4	2419.85MHz	8	2439.85MHz	12	2459.85MHz	16	2479.85MHz

Note:

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

Test channel	Frequency (MHz)
Lowest channel	2403.85MHz
Middle channel	2441.85MHz
Highest channel	2479.85MHz

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2.3 **Description of Test Modes**

V1 0

No	Title	Description				
TM1	TX-GFSK	Keep the EUT in continuously transmitting mode with GFSK modulation.				
Title	Description	Description				
TX mode	Keep the EUT works in continuously transmitting mode with GFSK modulation.					
	 Special software is used. Through engineering command into the engineering mode. engineering command: *#*#3646633#*#* Other method: Simultaneously press and hold the three buttons "left+center+right", then power of and enter the testing mode with the mouse (after entering the testing mode, the default transmission is 2403.85MHz empty carrier signal). Press the left mouse button to switch the status (transmission or reception) 					
Æ	Special software: /	CE				

Description of Support Units 2.4

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Description	Manufacturer	Model No.	Remark	Certification
1	PC	Lenovo	Air 14 Plus	Provide by lab	SDOC
2					
2.5 I	Equipments Use	ed During The Tes	t POCE		POCE

Equipments Used During The Test 2.5

Emissions in restricted frequency bands and RF

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Test Receiver	R&S	ESCI	102109	2023/6/13	2024/6/12
Spectrum Analyzer	R&S	FSP30	1321.3008K40- 101729-jR	2023/6/14	2024/6/13
966 Chamber	CY	9*6*6	20160101	2023/1/26	2025/1/25
Bore-sighting Antenna rack	PBB	1308503	16033		/
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2021/7/5	2024/7/4
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023/5-21	2025/5-20
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023/5/13	2025/5/12
Horn antenna	COM-POWER	AH-1840(40G)	10100008	2023/4/5	2025/4/4
Power APM(LF)	Schwarzbeck	BBV9743	9743-151	2023/6/13	2024/6/12
Power APM(HF)	Schwarzbeck	BBV9718	9718-282	2023/6/13	2024/6/12
Cable(LF)#2	Schwarzbeck	/	/	2023/2/27	2024/2/26
Cable(LF)#1	Schwarzbeck	/	/	2023/2/27	2024/2/26
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2023/2/28	2024/2/27
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2023/2/27	2024/2/26

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Power divider	MIDEWEST	PWD-2533	SMA-79	2023/5/11	2026/5/10
signal generator	Keysight	N5181A	MY48180415	2022/12/10	2023/12/9
signal generator	Keysight	N5182A	MY50143455	2022/12/29	2023/12/28
Spectrum Analyzer	Keysight	N9020A	MY53420323	2022/12/29	2023/12/28
RF Sensor Unit	TACHOY	TR1029-2	000001	/	/
RF Control Unit	TACHOY	TR1029-1	000001	/	/
Position Controller	MF	MF-7802	/		/
EMI Testsoftware	Farad	EZ -EMC	V1.1.42	/	/ 1
RF TestSoftware	TACHOY	RTS-01	V2.0.0.0	/	/

Statement Of The Measurement Uncertainty 2.6

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Test Item	Measurement Uncertainty			
Conducted Disturbance (0.15~30MHz)	±3.41dB			
Occupied Bandwidth	±3.63%			
RF power density	±0.234%			
Radio Frequency	2×10-7			
RF conducted power	±0.733dB			
Duty cycle	±3.1%			
Conducted Spurious emissions	±1.98dB			
Radiated Emission (Above 1GHz)	±5.46dB			
Radiated Emission (Below 1GHz)	±5.79dB			
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.				

Identification of Testing Laboratory 2.7

2.7 Identification of Te	esting Laboratory			
Company Name:	Shenzhen POCE Technology Co., Ltd.			
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China			
Phone Number:	+86-13267178997			
Fax Number:	86-755-29113252			
Identification of the Responsible Testing Location				
Company Name:	Shenzhen POCE Technology Co., Ltd.			
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China			
Phone Number:	+86-13267178997			
Fax Number:	86-755-29113252			
FCC Registration Number:	0032847402			
Designation Number:	CN1342			
Test Firm Registration No.:	778666			
A2LA Certificate Number:	6270.01			



2.8 Announcement

(1) The test report reference to the report template version v0.

V1 0

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) This document may not be altered or revised in any way unless done so by POCE 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) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant. the laboratory is not responsible for the accuracy of the information provided by the client. When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.



3 Evaluation Results (Evaluation)

3.1 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.

3.1.1 Conclusion:







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4 Radio Spectrum Matter Test Results (RF)

4.1 Occupied Bandwidth

POCE

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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 C63.10-2013, section 6.9.2
Procedure:	 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. 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. 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
POCE	reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances.
OCE	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
PU	 f) Set detection mode to peak and trace mode to max hold. 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).
POC	 h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. 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
PC	step g) shall be used for step j). 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
E	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 reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
CL	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).
4.1.1 E.U.T. Operation:	
Operating Environment:	
Temperature: 23.7 °C	Humidity: 48.7 % Atmospheric Pressure: 101 kPa

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Pre test mode:	TM1			
Final test mode:	TM1			
4.1.2 Test Setup Diag	gram:			
		EUT	TST PASS	
4.1.3 Test Data: Please Refer to Appen	dix for Details.			



902-928 MHz

	2400-2483.5 MHz	50	500	
	5725-5875 MHz	50	500	
	24.0-24.25 GHz	250	2500	
6				
	The field strength of emission	ns in this band shall not e	exceed 2500 millivolts/meter	
Test Method:	ANSI C63.10-2013 section 6	6.6		
Procedure:	ANSI C63.10-2013 section 6	6.6		

50

fundamental

(millivolts/meter)

harmonics

500

(microvolts/meter)

4.2.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.7 °C		Humidity:	48.7 %	Atmospheric Pressure:	101 kPa		
Pre test mode:		TM1			× ×			
Final test mode:		TM1						

4.2.2 Test Setup Diagram:





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4.2.3 Test Data:

Frequency	Emission Level	Limits	Margin	Detector	Polarization
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(PK/AV)	(H/V)
2403.85	90.29	114.00	-23.71	PK	Н
2403.85	85.91	94.00	-8.09	AV	Н
2403.85	91.04	114.00	-22.96	PK	V
2403.85	86.38	94.00	-7.62	AV	V

Frequency	Emission Level	Limits	Margin	Detector	Polarization
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(PK/AV)	(H/V)
2441.85	89.83	114.00	-24.17	PK	Н
2441.85	86.30	9 <mark>4.0</mark> 0	-7.70	AV	Н
2441.85	89.53	114.00	-24.47	PK	V
2441.85	86.32	94.00	-7.68	AV	V

Frequency	Emission Level	Limits	Margin	Detector	Polarization
(MHz)	(dBuV/m)	(dBuV/m)	dBuV/m)	(PK/AV)	(H/V)
2479.85	90.78	114.00	-23.22	PK 💦	Н
2479.85	86.28	94.00	-7.72	AV	Н
2479.85	90.73	114.00	-23.27	PK 🔪	V
2479.85	85.57	94.00	-8.43	AV	V

Note: Margin = Emission Level - Limit

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4.3 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			
-E	30-88	100 **	3			
	88-216	150 **	3			
	216-960	200 **	3			
	Above 960	500	3			
DOCE	** 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.					
CE	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 C63.10-2013 section 6	5.6.4				
Procedure:	ANSI C63.10-2013 section 6	5.6.4				

4.3.1 E.U.T. Operation:

Operating Environment:									
Temperature:	23.7 °C		Humidity:	48.7 %		Atmospheric Pressure:	101 kPa	-	5
Pre test mode:		TM1			Y			Y	
Final test mode:		TM1							

4.3.2 Test Setup Diagram:







POCE	1.0		Report No.: POCE231207006F
OCE Technology			
1 Emissions in f	requency bands (below	v 1CHz)	
	requeitcy ballus (below	v IGHZ)	
est Requirement:	47 CFR 15.249(a)		
	47 CFR 15.249(d)		
	47 CFR 15.249(e)		Y
est Limit:	Except as provided in parac	graph (b)of this section, t	he field strength of emission
	from intentional radiators of	perated within these freq	uency bands shall comply w
	the following:		
	Fundamental frequency	Fleid strength of	Field strength of
			narmonics
		(minivolis/meter)	(microvoits/meter)
		50	500
	2400-2483.5 MHZ	50	500
	5/25-58/5 MHZ	50	000
	24.0-24.25 GHz	250	2500
	Emissions radiated outside	of the specified frequence	cy bands, except for harmor
	shall be attenuated by at lea	ast 50 dB below the leve	I of the fundamental or to th
	general radiated emission li	imits in § 15.209, whiche	ever is the lesser attenuation
	Frequency (MHz)	Field strength	Measurement distance
		(microvolts/meter)	(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 on provided in po	regreent (c) fundemente	Lomissions from intentional
	Except as provided in particular the	ragraph (g), lundamenta	remissions from intentional
			Alta However exercises wit
	these frequency hands is p	ermitted under other sec	tions of this part e.g. 88 15
	and 15 241	ennitted under other sec	
	In the emission table above	the tighter limit applies	at the band edges
	The emission limits shown i	in the above table are ba	used on measurements
	employing a CISPR quasi-r	heak detector except for	the frequency bands 9–90 k
	110-490 kHz and above 10	00 MHz Radiated emiss	sion limits in these three bar
	are based on measurement	ts employing an average	detector.
	As shown in \S 15 35(b) for	frequencies above 1000	MHz. the field strength limit
		inequencies above 1000	
	paragraphs (a)and (b)of this	s section are based on a	verage limits. However, the
	paragraphs (a)and (b)of this peak field strength of any en	s section are based on a mission shall not exceed	verage limits. However, the the maximum permitted
	paragraphs (a)and (b)of this peak field strength of any en average limits specified abo	s section are based on a mission shall not exceed ove by more than 20 dB	verage limits. However, the I the maximum permitted under any condition of
	paragraphs (a)and (b)of this peak field strength of any e average limits specified abo modulation. For point-to-point-to	s section are based on a mission shall not exceed ove by more than 20 dB int operation under parag	verage limits. However, the I the maximum permitted under any condition of graph (b)of this section, the
	paragraphs (a)and (b)of this peak field strength of any e average limits specified abo modulation. For point-to-poi peak field strength shall not	s section are based on a mission shall not exceed ove by more than 20 dB i int operation under parag t exceed 2500 millivolts/r	verage limits. However, the I the maximum permitted under any condition of graph (b)of this section, the neter at 3 meters along the
	paragraphs (a)and (b)of this peak field strength of any er average limits specified abc modulation. For point-to-poi peak field strength shall not antenna azimuth.	s section are based on a mission shall not exceed ove by more than 20 dB int operation under parag t exceed 2500 millivolts/r	verage limits. However, the the maximum permitted under any condition of graph (b)of this section, the neter at 3 meters along the
est Method:	paragraphs (a)and (b)of this peak field strength of any e average limits specified abor modulation. For point-to-point peak field strength shall not antenna azimuth. ANSI C63.10-2013 section	s section are based on a mission shall not exceed ove by more than 20 dB int operation under parag t exceed 2500 millivolts/r 6.5	verage limits. However, the the maximum permitted under any condition of graph (b)of this section, the neter at 3 meters along the
est Method: rocedure:	paragraphs (a)and (b)of this peak field strength of any e average limits specified abo modulation. For point-to-po peak field strength shall not antenna azimuth. ANSI C63.10-2013 section	s section are based on a mission shall not exceed ove by more than 20 dB int operation under paraget exceed 2500 millivolts/r	verage limits. However, the the maximum permitted under any condition of graph (b)of this section, the neter at 3 meters along the
est Method: rocedure:	paragraphs (a)and (b)of this peak field strength of any e average limits specified abo modulation. For point-to-po peak field strength shall not antenna azimuth. ANSI C63.10-2013 section ANSI C63.10-2013 section	s section are based on a mission shall not exceed ove by more than 20 dB i int operation under parag t exceed 2500 millivolts/r 6.5	verage limits. However, the the maximum permitted under any condition of graph (b)of this section, the neter at 3 meters along the
est Method: rocedure: I.1 E.U.T. Operation:	paragraphs (a)and (b)of this peak field strength of any e average limits specified abo modulation. For point-to-po peak field strength shall not antenna azimuth. ANSI C63.10-2013 section ANSI C63.10-2013 section	s section are based on a mission shall not exceed ove by more than 20 dB int operation under parag t exceed 2500 millivolts/r 6.5 6.5	verage limits. However, the the maximum permitted under any condition of graph (b)of this section, the neter at 3 meters along the
est Method: rocedure: .1 E.U.T. Operation: perating Environment:	paragraphs (a)and (b)of this peak field strength of any e average limits specified abor modulation. For point-to-po peak field strength shall not antenna azimuth. ANSI C63.10-2013 section ANSI C63.10-2013 section	s section are based on a mission shall not exceed ove by more than 20 dB i int operation under parag t exceed 2500 millivolts/r 6.5 6.5	verage limits. However, the I the maximum permitted under any condition of graph (b)of this section, the neter at 3 meters along the
est Method: rocedure: 1 E.U.T. Operation: perating Environment: emperature: 23.7 °C	As shown in g 10.35(b), ion paragraphs (a) and (b) of this peak field strength of any e average limits specified abor modulation. For point-to-po peak field strength shall not antenna azimuth. ANSI C63.10-2013 section ANSI C63.10-2013 section Humidity: 48.7 %	Atmospheric Pred	verage limits. However, the the maximum permitted under any condition of graph (b)of this section, the neter at 3 meters along the essure: 101 kPa
est Method: rocedure: 1 E.U.T. Operation: perating Environment: emperature: 23.7 °C re test mode:	As shown in g 10.35(b), ion paragraphs (a) and (b) of this peak field strength of any e average limits specified aborn modulation. For point-to-point-to-point shall not antenna azimuth. ANSI C63.10-2013 section ANSI C63.10-2013 section Humidity: 48.7 % TM1	Atmospheric Pred	essure: 101 kPa

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	1.0		Report No.: POCE231207006F
OCE Technology			
5 Emissions in f	requency bands (above	e 1GHz)	
est Requirement:	47 CFR 15.249(a)		
	47 CFR 15.249(d)		
<u> </u>	47 CFR 15.249(e)		P
est Limit:	Except as provided in parag	graph (b)of this section, t	he field strength of emissior
	from intentional radiators or	perated within these frequencies	uency bands shall comply w
	the following:		
	-E		F
	Fundamental frequency	Field strength of	Field strength of
		fundamental	harmonics
		(millivolts/meter)	(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
	DU		
	Emissions radiated outside	of the specified frequence	cy bands, except for harmor
	shall be attenuated by at lea	ast 50 dB below the leve	l of the fundamental or to th
	general radiated emission li	mits in § 15.209. whiche	ver is the lesser attenuation
	Frequency (MHz)	Field strength	Measurement distance
		(microvolts/meter)	(meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/E(kHz)	30
	1 705-30 0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	
	Above 960	500	3
	** Except as provided in pa	regraph (g) fundamental	Lomissions from intentional
	Except as provided in particular the	ragraph (g), fundamenta	acted in the frequency hand
		4 216 MHz or 470 806 M	Lated III the frequency band
	these frequency bands is p	ermitted under other sec	tions of this part e.g. 88 15
	and 15 241	ermitted under other sec	
	In the emission table above	the tighter limit applies	at the band edges
	The emission limits shown i	in the above table are ba	sed on measurements
	employing a CISPR guasi-r	eak detector except for f	the frequency bands 9–90 k
	110-490 kHz and above 10	00 MHz. Radiated emiss	sion limits in these three bar
	are based on measurement	s employing an average	detector.
	As shown in § 15.35(b), for	frequencies above 1000	MHz, the field strength limi
	paragraphs (a)and (b)of this	s section are based on a	verage limits. However, the
	peak field strength of any e	mission shall not exceed	the maximum permitted
	average limits specified abo	ove by more than 20 dB ι	under any condition of
	modulation. For point-to-po	int operation under parag	graph (b) of this section, the
	peak field strength shall not	exceed 2500 millivolts/n	neter at 3 meters along the
	antenna azimuth.		
est Method:	antenna azimuth. ANSI C63.10-2013 section	6.6	
est Method: rocedure:	antenna azimuth. ANSI C63.10-2013 section ANSI C63.10-2013 section	6.6 6.6	
est Method: rocedure:	antenna azimuth. ANSI C63.10-2013 section ANSI C63.10-2013 section	6.6 6.6	
est Method: rocedure: 5.1 E.U.T. Operation:	antenna azimuth. ANSI C63.10-2013 section ANSI C63.10-2013 section	6.6 6.6	-CE
est Method: rocedure: 5.1 E.U.T. Operation: operating Environment:	ANSI C63.10-2013 section ANSI C63.10-2013 section	6.6 6.6	
est Method: rocedure: 5.1 E.U.T. Operation: perating Environment: emperature: 23.7 °C	antenna azimuth. ANSI C63.10-2013 section ANSI C63.10-2013 section Humidity: 48.7 %	6.6 6.6 Atmospheric Pre	essure: 101 kPa
est Method: rocedure: 5.1 E.U.T. Operation: operating Environment: emperature: 23.7 °C re test mode:	antenna azimuth. ANSI C63.10-2013 section ANSI C63.10-2013 section Humidity: 48.7 % TM1	6.6 6.6 Atmospheric Pre	essure: 101 kPa

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V1.0

Appendix

1. -20dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-20dB BW(kHz)	Result
NVNT	ANT1	2Mbps	2403.85	2363	Pass
NVNT	ANT1	2Mbps	2441.85	2397	Pass
NVNT	ANT1	2Mbps	2479.85	2384	Pass







	Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC	SENSE:INT A	IGN OFF 04:20:48 PM Dec 05, 2023 Radio Std: None	Frequency	
	#FGain:Low Ref Offset 3.85 dB	Trig: Free Run Avg Hold: 1 #Atten: 30 dB	0/10 Radio Device: BTS		
10 4 -5.	dB/div Ref 14.70 dBm 99 70 30			Center Freq 2.479850000 GHz	
-15 -28 -38	3 Da man man man and man man	Mar home Mar a My	mm		
-45 -55					
-75 C	enter 2.48 GHz		Span 3 MHz	CE Stop	
##	Res BW 30 kHz Occupied Bandwidth	#VBW 100 kHz Total Power	Sweep 3.2 ms 7.24 dBm	300.000 kHz Auto Man	
	2.1274 MH Transmit Freq Error -34.484 kH	Z Hz % of OBW Power	99.00 %	Freq Offset 0 Hz	
	x dB Bandwidth 2.391 MH	lz x dB	-26.00 dB		
MSC	a		STATUS	E	6
	***********	* End of Donort *	****	**	
		End of Report			