

FCC Test Report

Report No.: AGC13040230801FR01

FCC ID	:	2ACVU-CKW104RB
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Medical Keyboard
BRAND NAME	:	N/A
MODEL NAME	:	CKW104R
APPLICANT	:	Active Key GmbH
DATE OF ISSUE	:	Sep. 06, 2023
STANDARD(S)	:	FCC Part 15 Subpart C §15.249
REPORT VERSION	:	V1.0







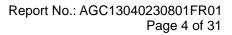
REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 06, 2023	Valid	Initial Release



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1. VERIFICATION OF CONFORMITY

Applicant	Active Key GmbH	
Address	Brunnenaecker 6, Pegnitz 91257, Germany	
Manufacturer	Active Key GmbH	
Address	Brunnenaecker 6, Pegnitz 91257, Germany	
Factory	Zhuhai Heng Yu New Technology	
Address	Heng Ke Technology Campus, Jin Hai Avenue Sanzao, Jinwan District, 519040, Zhuhai	
Product Designation	Medical Keyboard	
Brand Name	N/A	
Test Model	CKW104R	
Date of receipt of test item	Aug. 28, 2023	
Date of test	Aug. 28, 2023 to Sep. 06, 2023	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-2.4G/RF	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Prepared By

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Sep. 06, 2023

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Sep. 06, 2023

Approved By

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Max Zhang (Authorized Officer)

Sep. 06, 2023



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2402MHz to 2480MHz	
Maximum field strength	86.11dBuV/m(Peak)@3m	
	81.71dBuV/m(Average)@3m	
Modulation	GFSK	
Number of channels	annels 79	
Antenna Gain	-12.55dBi	
Antenna Designation	nation PCB Antenna (Met 15.203 Antenna requirement)	
Hardware Version	HY-CK104R-2-02-03	
Software Version	V1.0	
Power Supply	DC 6.0V by battery	

2.2. TABLE OF CARRIER FREQUENCY

Frequency Band	Channel Number	Frequency
	0	2402 MHz
	1	2403 MHz
	:	:
	38	2440 MHz
2402~2480MHz	39	2441 MHz
	40	2442 MHz
		:
	77	2479 MHz
	78	2480 MHz



3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±2.9 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.9 dB
- Uncertainty of Occupied Channel Bandwidth: $Uc = \pm 2 \%$



4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION				
1	Low channel TX_2402MHz_GFSK				
2	Middle channel TX_2442MHz_GFSK				
3	High channel TX_2480MHz_GFSK				
Note:	Note:				
1. O	1. Only the result of the worst case was recorded in the report, if no other cases.				
2. F	For Radiated Emission, 3axis were chosen for testing for each applicable mode.				

3. The EUT adjusts the frequency through the button.

4. For battery operated equipment, the equipment tests are performed using a new battery.



5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:

EUT

5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Medical Keyboard	CKW104R	2ACVU-CKW104RB	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.



6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Commun Fuhai Street, Bao'an District, Shenzhen, Guangdong, China			
Designation Number	CN1259		
FCC Test Firm Registration Number	975832		
A2LA Cert. No.	5054.02		
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA		

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Jun. 01, 2023	May 31, 2024
Signal Analyzer	Aglient	N9020A	MY52090123	Jun. 03, 2023	Jun. 02, 2024
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2023	Apr. 22, 2024
Double-Ridged Waveguide Horn	ETS	3117	00154520	Jun. 03, 2023	Jun. 02, 2024
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 05, 2023	Jan. 04, 2025
Test software	Tonscend	JS32-RE	Ver.2.5	N/A	N/A



7. RADIATED EMISSION

7.1 TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics	
	(millivolts/meter)	(microvolts/meter)	
900-928MHz	50	500	
2400-2483.5MHz	50	500	
5725-5875MHz	50	500	
24.0-24.25GHz	250	2500	

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit			
(MHz)	Meters	ր V/m	dB(µV)/m		
0.009 ~ 0.490	300	2400/F(kHz)			
0.490 ~ 1.705	30	24000/F(kHz)			
1.705 ~ 30	30	30			
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
960 ~ 1000	3	500	54.0		
Above 1000	3	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)			
Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m					
(2) The smaller limit shall apply at the cross point between two frequency bands.					

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.2. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.



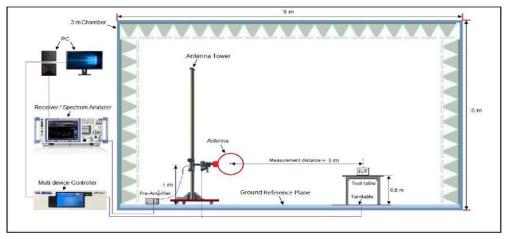
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
	1GHz~26.5GHz
Start ~Stop Frequency	RBW 2.4MHz/ VBW 8MHz for Peak,
	RBW 2.4MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

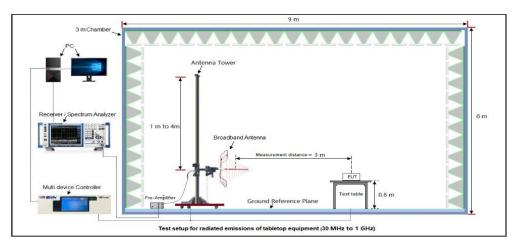


7.3. TEST SETUP

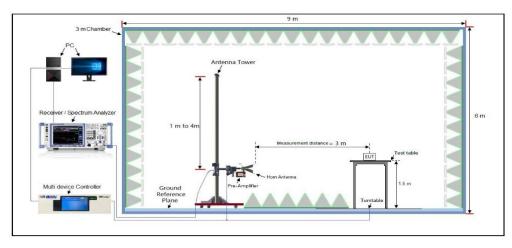


Radiated Emission Test Setup 9KHz-30MHz

Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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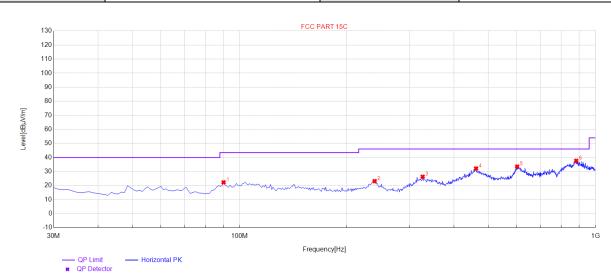
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal

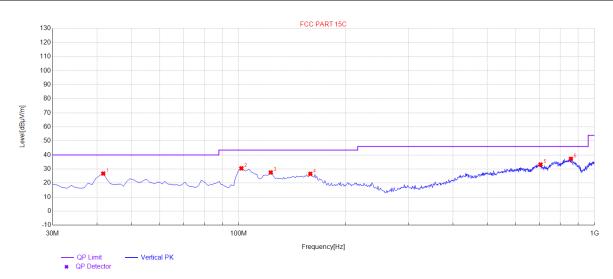
RADIATED EMISSION 30MHz-1GHZ



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	90.14	22.29	15.70	43.50	21.21	100	200	Horizontal
2	239.52	23.15	17.47	46.00	22.85	100	30	Horizontal
3	326.82	26.31	21.16	46.00	19.69	100	110	Horizontal
4	461.65	32.14	27.49	46.00	13.86	100	280	Horizontal
5	602.3	33.53	28.64	46.00	12.47	100	350	Horizontal
6	882.63	37.63	33.07	46.00	8.37	100	270	Horizontal



EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.64	26.79	11.99	40.00	13.21	100	200	Vertical
2	101.78	30.48	13.28	43.50	13.02	100	230	Vertical
3	123.12	27.55	17.84	43.50	15.95	100	160	Vertical
4	159.01	26.58	21.84	43.50	16.92	100	230	Vertical
5	705.12	33.20	28.64	46.00	12.80	100	230	Vertical
6	858.38	37.27	32.05	46.00	8.73	100	220	Vertical

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin= Limit-Level.

The "Factor" value can be calculated automatically by software of measurement system.

The mode 1 is the worst case, and only the data of the worst case recorded in this test report.



EUT	Medical Keyboard	Model Name	CKW104R		
Temperature	24.5°C	Relative Humidity	59.7%		
Pressure	985kPa	Test Voltage	Normal Voltage		
Test Modulation	GFSK	Polarization	Horizontal		

FIELD STRENGTH OF FUNDAMENTAL

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2402	37.06	49.05	86.11	114.00	-27.89	peak
2402	32.66	49.05	81.71	94.00	-12.29	AVG
2442	36.66	49.12	85.78	114.00	-28.22	peak
2442	32.34	49.12	81.46	94.00	-12.54	AVG
2480	36.74	49.25	85.99	114.00	-28.01	peak
2480 31.97 49.25 81.22 94.00 -12.78 AVG						
Remark:						
Factor = Ante	enna Factor + C	able Loss – Pi	re-amplifier.			

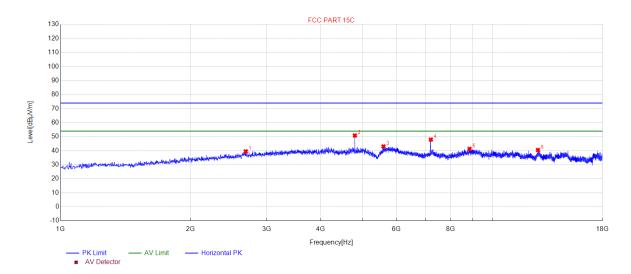
EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Modulation	GFSK	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
2402	44.37	49.05	83.80	114.00	-30.20	peak	
2402	29.51	49.05	79.26	94.00	-14.74	AVG	
2442	45.31	49.12	83.45	114.00	-30.55	peak	
2442	30.11	49.12	78.87	94.00	-15.13	AVG	
2480	40.78	49.25	83.08	114.00	-30.92	peak	
2480	30.48	49.25	78.72	94.00	-15.28	AVG	
Remark:							
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



RADIATED EMISSION ABOVE 1GHZ

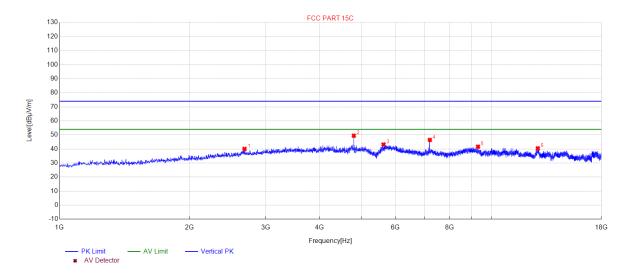
EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal



PK D	PK Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2684.8685	39.53	-12.42	74.00	34.47	150	90	Horizontal
2	4804.9805	50.84	-6.78	74.00	23.16	150	210	Horizontal
3	5595.5596	43.01	-6.27	74.00	30.99	150	60	Horizontal
4	7205.6206	47.94	-3.55	74.00	26.06	150	180	Horizontal
5	8856.4856	41.28	-0.33	74.00	32.72	150	230	Horizontal
6	12754.975	40.51	0.93	74.00	33.49	150	330	Horizontal



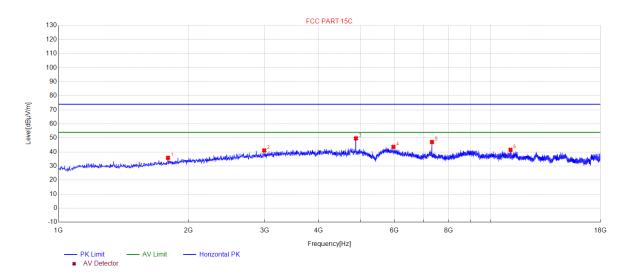
EUT	Medical Keyboard	Model Name	CKW104R
Temperature	23.0° C	Relative Humidity	51.8%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical



PK D	PK Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2681.4681	40.04	-12.43	74.00	33.96	150	110	Vertical
2	4803.2803	49.46	-6.78	74.00	24.54	150	150	Vertical
3	5627.8628	43.19	-6.16	74.00	30.81	150	90	Vertical
4	7205.6206	46.44	-3.55	74.00	27.56	150	40	Vertical
5	9315.5316	41.63	-0.33	74.00	32.37	150	230	Vertical
6	12814.481	40.44	0.99	74.00	33.56	150	130	Vertical



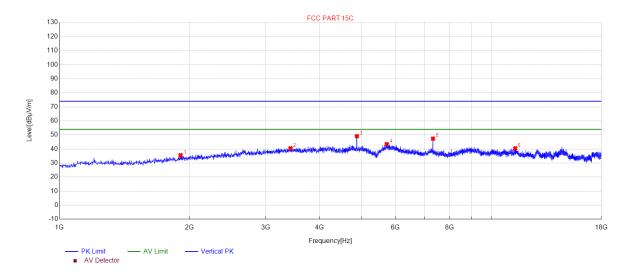
EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Polarization	Horizontal



PK D	PK Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1792.2792	35.88	-17.64	74.00	38.12	150	340	Horizontal
2	2994.2994	41.09	-11.25	74.00	32.91	150	160	Horizontal
3	4883.1883	49.71	-6.60	74.00	24.29	150	330	Horizontal
4	5964.4964	43.66	-5.00	74.00	30.34	150	280	Horizontal
5	7326.3326	47.12	-3.50	74.00	26.88	150	70	Horizontal
6	11138.113	41.51	0.49	74.00	32.49	150	220	Horizontal



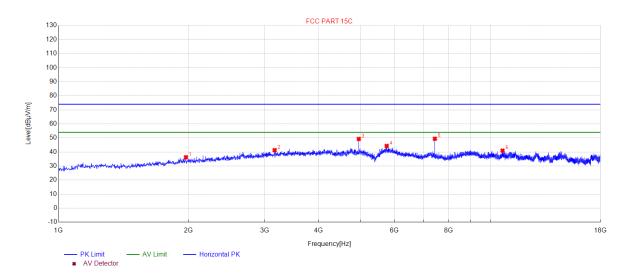
EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Polarization	Vertical



PK D	PK Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1906.1906	35.59	-16.75	74.00	38.41	150	220	Vertical
2	3426.1426	40.47	-9.93	74.00	33.53	150	240	Vertical
3	4883.1883	49.17	-6.60	74.00	24.83	150	260	Vertical
4	5726.4726	43.42	-5.82	74.00	30.58	150	280	Vertical
5	7326.3326	47.39	-3.50	74.00	26.61	150	340	Vertical
6	11357.435	40.45	0.36	74.00	33.55	150	270	Vertical



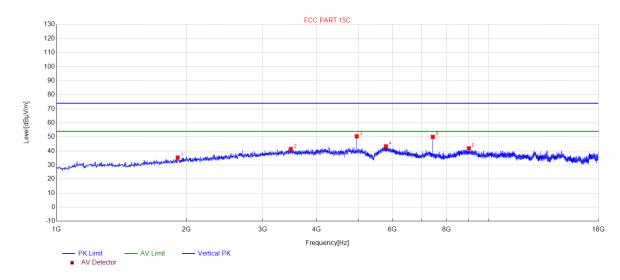
EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Horizontal



PK D	PK Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1972.4972	36.25	-16.24	74.00	37.75	150	200	Horizontal
2	3166.0166	41.29	-10.72	74.00	32.71	150	180	Horizontal
3	4959.696	49.29	-6.42	74.00	24.71	150	50	Horizontal
4	5755.3755	44.29	-5.72	74.00	29.71	150	120	Horizontal
5	7440.244	49.42	-3.46	74.00	24.58	150	320	Horizontal
6	10675.667	40.96	0.12	74.00	33.04	150	140	Horizontal



EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Vertical



PK D	PK Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1907.8908	35.30	-16.74	74.00	38.70	150	90	Vertical
2	3489.0489	41.41	-9.73	74.00	32.59	150	230	Vertical
3	4959.696	50.44	-6.42	74.00	23.56	150	240	Vertical
4	5791.0791	43.31	-5.60	74.00	30.69	150	10	Vertical
5	7440.244	50.02	-3.46	74.00	23.98	150	340	Vertical
6	9018.0018	41.90	0.58	74.00	32.10	150	310	Vertical

RESULT: PASS

Note: The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin= Limit- Level.

The "Factor" value can be calculated automatically by software of measurement system.



8. BAND EDGE EMISSION

8.1TEST LIMIT

	Limit of the Fiel	d Strength (dBµV/m)
Frequency Band	Peak	Average
f≪2390MHz	74	54
f≥2483.5MHz	74	54

8.2. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

3. Other procedures refer to clause 7.2.

RADIATED EMISSION TEST SETUP

8.3 TEST SETUP

8.4 TEST RESULT

Note:

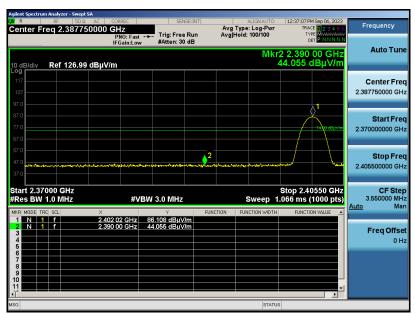
1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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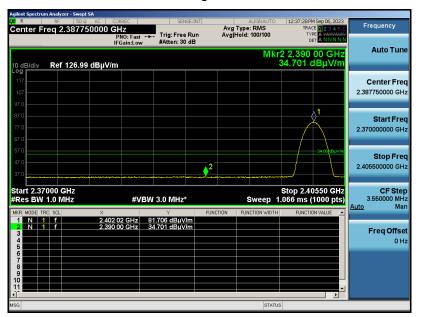


EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal



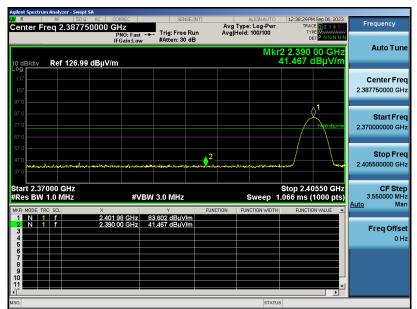
Peak Value

Average Value



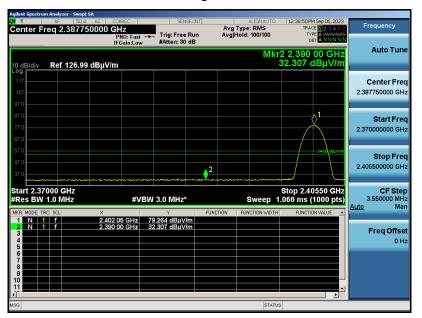


EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical



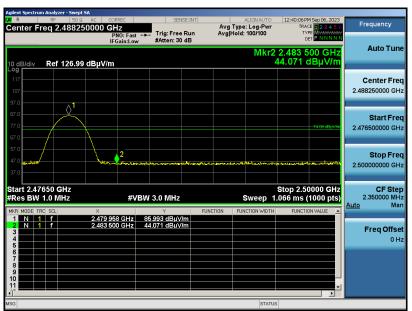
Peak Value

Average Value





EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Horizontal



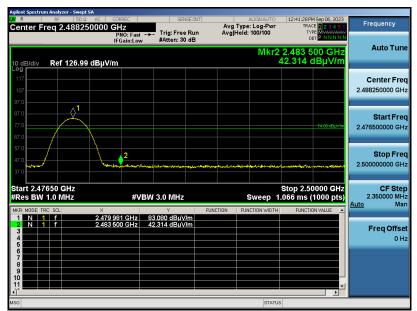
Peak Value

Average Value





EUT	Medical Keyboard	Model Name	CKW104R
Temperature	24.5°C	Relative Humidity	59.7%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Vertical



Peak Value

Average Value



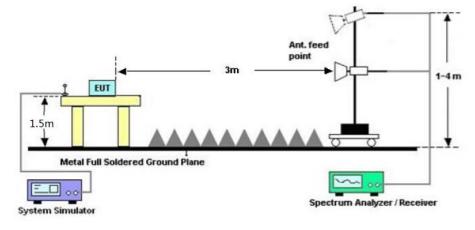


9. BANDWIDTH

9.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz, VBW≥ 1×RBW.
- 3. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria
2402	1.059	1.0401	PASS
2442	1.055	1.0265	PASS
2480	1.051	1.0261	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL







TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC13040230801AP02

APPENDIX B: PHOTOGRAPHS OF THE EUT

Refer to the Report No.: AGC13040230801AP03

----END OF REPORT----



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.