



TEST REPORT

APPLICANT	:	WIKO SAS
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- PRODUCT NAME : Smart Phone
- MODEL NAME : W-V673-01
- BRAND NAME : WIKO
- FCC ID : 2AM86W-V673-01
- STANDARD(S) : 47 CFR Part 15 Subpart B
- **RECEIPT DATE** : 2022-01-20
- **TEST DATE** : 2022-01-27 to 2022-02-09
- **ISSUE DATE** : 2022-02-28

Yn Xiaolin Edited by: Yu Xiaolin(Rapporteur) Xiao Xiona Approved by: Xiao Xiong(Supervisor)

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Change History				
Version	Date	Reason for Change		
1.0 2022-02-28		First edition		





Note: Provide by applicant

1.1. Applicant and Manufacturer Information

Applicant:	WIKO SAS
Applicant Address:	132, Boulevard Michelet - 13008 Marseille - France
Manufacturer:	WIKO SAS
Manufacturer Address:	132, Boulevard Michelet - 13008 Marseille - France

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone
EUT No.:	22#
Hardware Version:	M6101_MB_P1
Software Version:	W-V673-V01
Tx Frequency:	GSM850: 824 MHz ~ 849 MHz
	GSM1900: 1850 MHz ~ 1910 MHz
	WCDMA Band II: 1850 MHz ~ 1910 MHz
	WCDMA Band IV: 1710 MHz ~ 1755 MHz
	WCDMA Band V: 824 MHz ~ 849 MHz
	LTE Band 2: 1850 MHz ~ 1910 MHz
	LTE Band 4: 1710 MHz ~ 1755 MHz
	LTE Band 5: 824 MHz ~ 849 MHz
	LTE Band 7: 2500 MHz ~ 2570 MHz
	LTE Band 13: 777 MHz ~ 787 MHz
	LTE Band 26: 814 MHz ~ 849 MHz
	LTE Band 38: 2570 MHz ~ 2620 MHz
	LTE Band 66: 1710 MHz ~ 1780 MHz
	Bluetooth: 2402 MHz ~ 2480 MHz
	802.11b/g/n: 2412 MHz ~ 2462 MHz
Rx Frequency:	GSM850: 869 MHz ~ 894 MHz
	GSM1900: 1930 MHz ~ 1990 MHz
	WCDMA Band II: 1930 MHz ~ 1990 MHz
	WCDMA Band IV: 2110 MHz ~ 2155 MHz
	WCDMA Band V: 869 MHz ~ 894 MHz
	LTE Band 2: 1930 MHz ~ 1990 MHz
	LTE Band 4: 2110 MHz ~ 2155 MHz
	LTE Band 5: 869 MHz ~ 894 MHz





) MHz ~ 2690 MHz			
		LTE Band 13: 746 MHz ~ 756 MHz			
	LTE Band 26: 859				
		0 MHz ~ 2620 MHz			
	LTE Band 66: 2110 MHz ~ 2200 MHz				
		Bluetooth: 2402 MHz ~ 2480 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz			
Ancillary Equipment:	· · · · · ·	1 MHZ ~ 2402 MHZ			
	Battery 1 Brand Name: N/A				
		N/A			
	Model No.:	HB496590EFW-F			
	Serial No.:	(N/A, marked #1 by test site)			
	Capacity:	4900mAh			
	Rated Voltage:	3.87V			
	Charge Limit:	4.45V			
	Manufacturer:	Dongguan NVT Technology Co., Ltd.			
	Battery2				
	Brand Name:	N/A			
	Model No.:	HB496590EFW-F			
	Serial No.:	(N/A, marked #1 by test site)			
	Capacity:	4900mAh			
	Rated Voltage:	3.87V			
	Charge Limit:	4.45V			
	Manufacturer:	SCUD (Fujian) Electronics Co., Ltd.			
	AC Adapter 1				
	Brand Name:	WIKO			
	Model No.:	S050200U02			
	Serial No.:	(N/A, marked #1 by test site)			
	Rated Input:	100-240V~50/60Hz, 0.5A			
	Rated Output:	5.0V2.0A			
	Manufacturer:	HUIZHOU BYD ELECTRONIC CO., LTD.			
	AC Adapter 2				
	Brand Name:	WIKO			
	Model No.:	S050200U02			
	Serial No.:	(N/A, marked #1 by test site)			
	Rated Input:	100-240V~50/60Hz, 0.5A			
	Rated Output:	5.0V2.0A			
	Manufacturer:	Shenzhen Huntkey Electric Co., Ltd.			
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Brand Name:	WIKO
Model No.:	S050200E02
Serial No.:	(N/A, marked #1 by test site)
Rated Input:	100-240V~50/60Hz, 0.5A
Rated Output:	5.0V2.0A
Manufacturer:	HUIZHOU BYD ELECTRONIC CO., LTD.
AC Adapter 4	
Brand Name:	WIKO
Model No.:	S050200B02
Serial No.:	(N/A, marked #1 by test site)
Rated Input:	100-240V~50/60Hz, 0.5A
Rated Output:	5.0V2.0A
Manufacturer:	HUIZHOU BYD ELECTRONIC CO., LTD.
AC Adapter 5	
Brand Name:	WIKO
Model No.:	S050200E02
Serial No.:	(N/A, marked #1 by test site)
Rated Input:	100-240V~50/60Hz, 0.5A
Rated Output:	5.0V2.0A
Manufacturer:	Shenzhen Huntkey Electric Co., Ltd.
AC Adapter 6	
Brand Name:	WIKO
Model No.:	S050200B02
Serial No.:	(N/A, marked #1 by test site)
Rated Input:	100-240V~50/60Hz, 0.5A
Rated Output:	5.0V2.0A
Manufacturer:	Shenzhen Huntkey Electric Co., Ltd.
USB Cable 1	
Model No.:	CUDU01B-HC295-EH
Monufacturar	FUYU ELECTRONICAL TECHNOLOGY
Manufacturer:	(HUAIAN) CO., LTD.
USB Cable 2	
Model No.:	L99UC131-CS-H
Manufacturer:	LUXSHARE PRECISION INDUSTRY CO., LTD.
USB Cable 3	



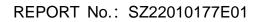


Model No.:	WA0072
Manufacturer:	NINGBO BROAD TELECOMMUNICATION
	CO., LTD.

Note:

- 1. There are six kinds of adapters, all adapters have been tested, For the CE, RE and flicker, only the worst case (Adapter 1) is recorded in this report.
- 2. There are two kinds of batteries, all battery have been tested, For the CE, RE and flicker, only the worst case (Battery 1) is recorded in this report.
- 3. There are three kinds of USB Cables, all battery have been tested, For the CE, RE and flicker, only the worst case (USB Cable1) is recorded in this report.
- 4. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer.







2.1. Applied Reference Documents

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination Remark
1	15.107	Conducted Emission	2022.01.27	Yang Lian	PASS	No deviation
2	15.109	Radiated Emission	2022.02.09	Wu Zhaoling	PASS	No deviation

Note 1:Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 2:When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.





2.2. EUT Setup and Operating Conditions

Note: All of the following test modes are tested in all the test items.

Test Mod	les	3
Mode 1	:	GSM 850 Idle + Bluetooth Idle + WLAN Idle +Battery + USB Cable(Charging from
		Adapter) + Adapter + Earphone+ SIM Card
Mode 2	:	GSM 1900 Idle + Bluetooth Idle + WLAN Idle +Battery + USB Cable(Charging from
		Adapter) + Adapter + Earphone+ SIM Card
Mode 3	:	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Adapter + Earphone+ SIM Card
Mode 4	:	WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle +Battery + USB Cable(Charging
		from Adapter) + Adapter + Earphone+ SIM Card
Mode 5	:	WCDMA BandV Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Adapter+ Earphone+ SIM Card
Mode 6	:	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Adapter + Earphone+ SIM Card
Mode 7	:	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle +Battery + USB Cable(Charging from
		Adapter) + Adapter + Earphone+ SIM Card
Mode 8	:	LTE Band 5 Idle+ Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Adapter + Earphone+ SIM Card
Mode 9	:	LTE Band 7 Idle+ Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Adapter + Earphone+ SIM Card
Mode10	:	LTE Band 13Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Adapter + Earphone+ SIM Card
Mode 10	:	LTE Band 26 Idle+ Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Adapter + Earphone+ SIM Card
Mode 17	:	LTE Band 38 Idle+ Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Adapter + Earphone+ SIM Card
Mode 18	:	LTE Band 66 Idle+ Bluetooth Idle + WLAN Idle +Battery + USB Cable(Charging from
		Adapter) + Adapter+ Earphone+ SIM Card
Mode 19	:	WCDMA Band Idle + Bluetooth Idle + WLAN Idle +Camera + Battery + USB
		Cable(Charging from Adapter) + Adapter+ Earphone+ SIM Card
Mode 20	:	LTE Band Idle + Bluetooth Idle + WLAN Idle + Battery + Earphone
		+PC(Datatransfer) +PC Adapter+ SIM Card
Remark:		
		test mode in boldface (Mode 19) was the worst case of conducted emission test, only
the test d	at	a of these modes were reported. The above test mode in boldface (Mode 20) was the

the test data of these modes were reported. The above test mode in boldface (Mode 20) was the worst case of radiated emission test, only the test data of these modes were reported.





During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 - 106



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3. 47 CFR Part 15B Requirements

3.1. Conducted Emission

3.1.1. Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the ACpower line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range	Conducted Limit (dBµV)				
(MHz)	Quasi-peak	Average			
0.15 - 0.50	66 to 56	56 to 46			
0.50 - 5	56	46			
5 - 30	60	50			

NOTE:

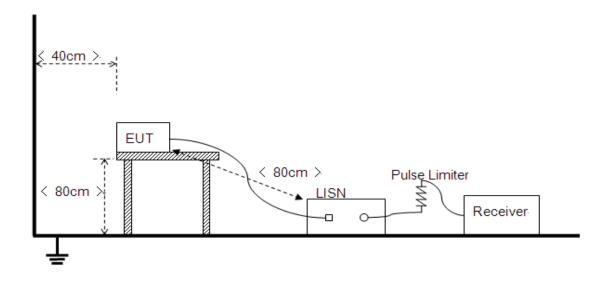
a) The limit subjects to the Class B digital device.

b) The lower limit shall apply at the band edges.

c) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.1.2. Test Setup

Please refer to Annex A for the photographs of the Test Configuration.





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The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu$ H of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

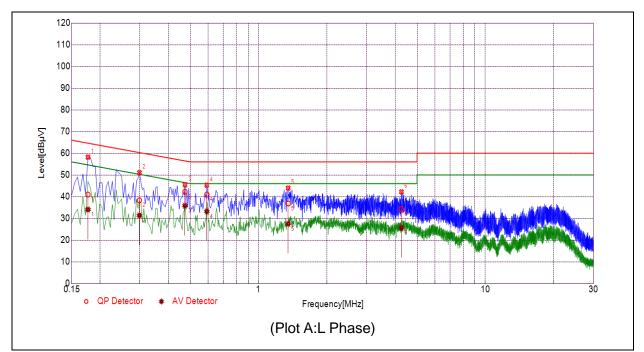
The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

3.1.3. Test Result

Set RBW=9 kHz, VBW=30 kHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.



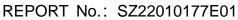


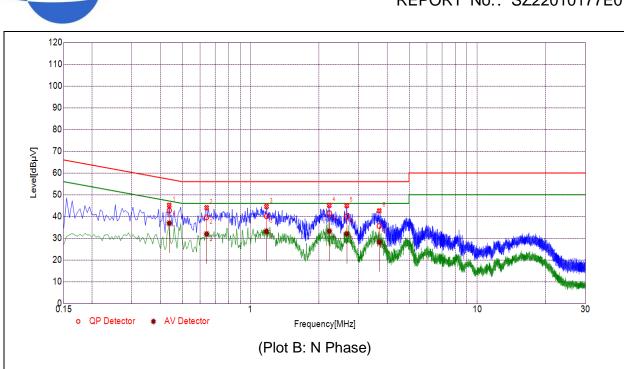


A. Test Plot and Suspicious Points:

	Fre.			Limit (d	dBμV)	Dowor line	Verdict
NO.	(MHz)			MHz) Quai-peak Aver		Average	Power-line
1	0.1769	40.96	34.06	64.63	54.63		PASS
2	0.2983	38.32	31.36	60.29	50.29		PASS
3	0.4738	42.29	35.82	56.45	46.45	Line	PASS
4	0.5916	40.99	33.22	56.00	46.00	Line	PASS
5	1.3518	36.84	27.49	56.00	46.00		PASS
6	4.2684	34.36	25.58	56.00	46.00		PASS







NO.	Fre.	Emission Level (dBµV)		Limit (c	dBμV)	Dowor line	Verdict
NO.	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	verdict
1	0.4382	42.74	36.89	57.10	47.10		PASS
2	0.6401	39.62	31.87	56.00	46.00		PASS
3	1.1755	40.12	33.14	56.00	46.00	Neutrol	PASS
4	2.2252	41.53	33.24	56.00	46.00	Neutral	PASS
5	2.6590	40.07	32.00	56.00	46.00		PASS
6	3.6943	35.58	28.19	56.00	46.00		PASS



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3.2. Radiated Emission

3.2.1. Requirement

According to FCC section 15.109 (a), the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Field Strength Limitation at 3m Measurement Dist			
Range (MHz)	(μV/m)	(dBµV/m)		
30.0 - 88.0	100	20log 100		
88.0 - 216.0	150	20log 150		
216.0 - 960.0	200	20log 200		
Above 960.0	500	20log 500		

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Note:

- 1) The tighter limit shall apply at the boundary between two frequency range.
- 2) Limitation expressed indB μ V/m is calculated by 20log Emission Level(μ V/m).

3.2.2. Frequency Range of Measurement

According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

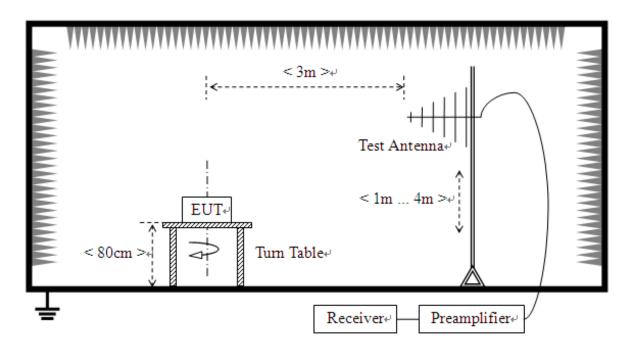
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705 1.705–108 108–500 500–1000 Above 1000	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.



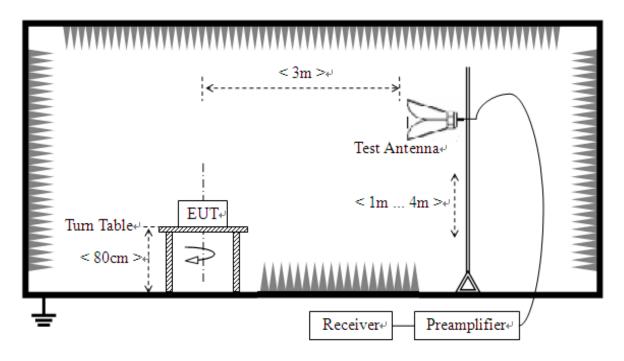


3.2.3. Test Setup

1) For radiated emissions from 30MHz to1GHz



2) For radiated emissions above 1GHz





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The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on variable-height antenna master tower.

For the test Antenna:

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz)are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

For measurements below 1GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

3.2.4. Test Result

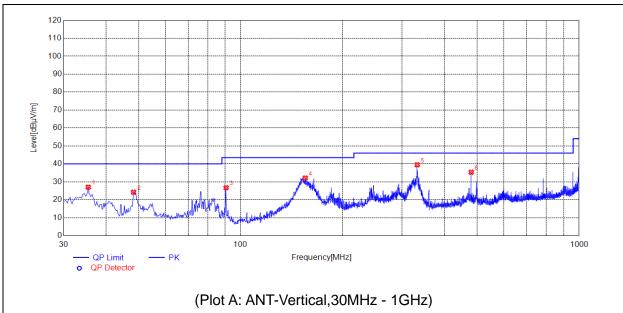
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of emissions which (6GHz-13.5GHz) are attenuated more than 20 dB below the permissible value need not be reported.

Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.







No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	35.4331	27.03	N.A	N.A	N.A	40.00	N.A	V	PASS
2	48.2396	24.23	N.A	N.A	N.A	40.00	N.A	V	PASS
3	90.5401	26.74	N.A	N.A	N.A	43.50	N.A	V	PASS
4	155.1550	32.14	N.A	N.A	N.A	43.50	N.A	V	PASS
5	332.3125	39.49	N.A	N.A	N.A	46.00	N.A	V	PASS
6	479.9760	35.35	N.A	N.A	N.A	46.00	N.A	V	PASS

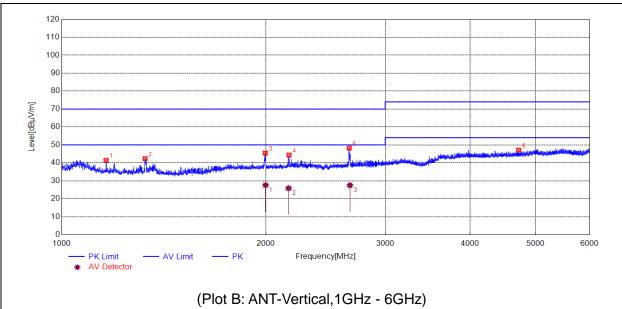


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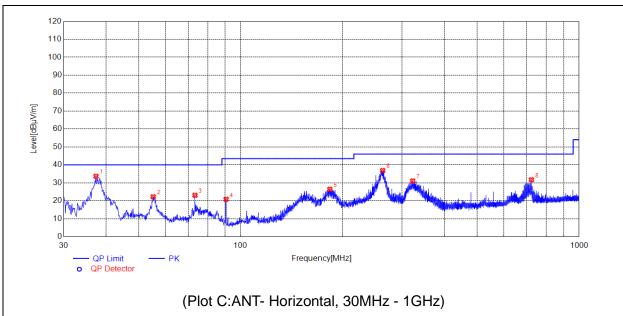




No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1162.5163	41.40	N.A	N.A	70.00	N.A	50.00	V	PASS
2	1327.0327	42.38	N.A	N.A	70.00	N.A	50.00	V	PASS
3	1995.5996	45.45	N.A	27.56	70.00	N.A	50.00	V	PASS
4	2163.6164	44.38	N.A	25.85	70.00	N.A	50.00	V	PASS
5	2655.1655	48.26	N.A	27.48	70.00	N.A	50.00	V	PASS
6	4720.3720	47.09	N.A	N.A	74.00	N.A	54.00	V	PASS







No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	37.3727	33.65	N.A	N.A	N.A	40.00	N.A	Н	PASS
2	55.1255	22.22	N.A	N.A	N.A	40.00	N.A	Н	PASS
3	73.2663	23.07	N.A	N.A	N.A	40.00	N.A	Н	PASS
4	90.5341	20.83	N.A	N.A	N.A	43.50	N.A	Н	PASS
5	183.3723	26.44	N.A	N.A	N.A	43.50	N.A	Н	PASS
6	262.7263	36.86	N.A	N.A	N.A	46.00	N.A	Н	PASS
7	322.1932	31.05	N.A	N.A	N.A	46.00	N.A	Н	PASS
8	722.7463	31.74	N.A	N.A	N.A	46.00	N.A	Н	PASS

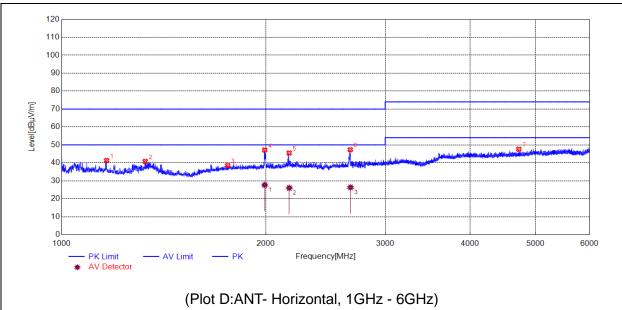


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No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1164.5165	41.34	N.A	N.A	70.00	N.A	50.00	Н	PASS
2	1327.5328	40.81	N.A	N.A	70.00	N.A	50.00	Н	PASS
3	1756.5757	38.54	N.A	N.A	70.00	N.A	50.00	Н	PASS
4	1992.0992	47.16	27.65	N.A	70.00	N.A	50.00	Н	PASS
5	2164.6165	45.51	26.05	N.A	70.00	N.A	50.00	Н	PASS
6	2664.1664	47.32	26.32	N.A	70.00	N.A	50.00	Н	PASS
	4722.3722	47.62	N.A	N.A	74.00	N.A	54.00	Н	PASS



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Annex B Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission Measurement

Measuring Uncertainty for	9kHz-150kHz	±3.3dB
a Level of Confidence of	150kHz-30MHz	±2.8dB
95%(U=2Uc(y))		

Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for	30MHz-200MHz	±5.06dB
a Level of Confidence of	200MHz-1000MHz	±5.04dB
95%(U=2Uc(y))	1GHz-6GHz	±5.18dB
	6GHz-18GHz	±5.48dB





Annex C Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
	FL.3, Building A, FeiYang Science Park, No.8 LongChang		
Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong		
	Province, P. R. China		

3. Accreditation Certificate

Accredited Testing	The FCC designation number is CN1192.	
Laboratory:	Test firm registration number is 226174.	
	(Shenzhen Morlab Communications Technology Co., Ltd.)	

4. Test Software Utilized

Model	Version Number	Producer
TS+ -[JS32-RE]	Version 2.5.0.6	Tonscend
TS+ -[JS32-CE]	Version2.5.0.0	Tonscend





5. Test Equipments Utilized

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBE CK	2019/5/24	2022/5/23
Horn Antenna	BBHA 9120D	01774	SCHWARZBE CK	2019/7/26	2022/7/25
Receiver	N9038A	MY56400093	KEYSIGHT	2021/3/9	2022/3/8
Signal Analyzer	N9020A	MY56060145	Agilent	2021/7/26	2022/7/25
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2021/10/18	2022/10/17
Preamplifier	S020180L3203	61171/61172	LUCIX CORP.	2021/7/16	2022/7/15
Preamplifier	S10M100L380 2	46732	LUCIX CORP.	2021/7/16	2022/7/15
Receiver	ESPI	101052	R&S	2021/7/16	2022/7/15
LISN	NSLK 8127	8127449	Schwarzbeck	2021/3/9	2022/3/8
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBE CK	2021/7/21	2022/7/20

5. Ancillary Equipment Utilized

Description	Manufacturer	Model	Serial No.
Earphone	VIVO	N/A	N/A
PC	DELL	VOSTRO 5370	DF2DR A01 DPC
PC Adapter	DELL	LA45NM140	OKXTTW

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