

TEST REPORT

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APPLICANI	: WIKO SAS
PRODUCT NAME	: Smart phone
MODEL NAME	: W-V770
BRAND NAME	: WIKO
FCC ID	: 2AM86W-V770
STANDARD(S)	: 47 CFR Part 15 Subpart B
RECEIPT DATE	: 2021-09-01
TEST DATE	: 2021-09-15 to 2021-09-18
ISSUE DATE	: 2021-10-08

Hesinuo

Edited by:

He Sinuo(Rapporteur)

Approved by:

Xiao Xiong

Xiao Xiong(Supervisor)

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Change History						
Issue Date Reason for change						
1.0	2021-10-08	First edition				





1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	WIKO SAS
Applicant Address:1, rue Capitaine Dessemond – 13007 Marseille – France.	
Manufacturer: WIKO SAS	
Manufacturer Address:	1, rue Capitaine Dessemond – 13007 Marseille – France.

1.2. Equipment Under Test (EUT) Description

ProductName:	Smart phone		
EUT No.:	1#		
Hardware Version:	V1.0		
Software Version:	W-V770-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 26: 814 MHz ~ 849 MHz		
	LTE Band 38: 2570 MHz ~ 2620 MHz		
	LTE Band 40: 2300 MHz ~2400 MHz		
	LTE Band 41: 2535 MHz ~ 2675 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		



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	LTE Band 5: 869 MHz ~ 894 MHz				
	LTE Band 7: 2620 MHz ~ 2690 MHz				
	LTE Band 26: 85	9 MHz ~894 MHz			
	LTE Band 38: 2570 MHz ~ 2620 MHz				
	LTE Band 40: 2300 MHz ~ 2400 MHz				
	LTE Band 41: 2535 MHz ~ 2675 MHz				
	LTE Band 66: 2110 MHz ~ 2200 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz				
Anaillan/ Equipment		2 MHZ ~ 2462 MHZ			
Ancillary Equipment:	Battery				
	Brand Name:	N/A			
	Model No.:	HB526489EEW			
	Serial No.:	(N/A, marked #1 by test site)			
	Capacity:	4900mAh			
	Rated Voltage:	3.85V			
	Charge Limit:	4.43V			
	Manufacturer: SCUD(FUJIAN) ELECTRONICS CO.,LTD.				
	AC Adapter 1				
	Brand Name: N/A				
	Model No.: HW-050200U02				
	Serial No.:	(N/A, marked #1 by test site)			
	Rated Input: 100-240V~50/60Hz, 0.5A				
	Rated Output: 5.0V=2A				
	Manufacturer:	HUIZHOU BYD ELECTRONIC CO., LTD.			
	AC Adapter 2				
	Brand Name:	N/A			
	Model No.:	TN-050200U5			
	Serial No.:	(N/A, marked #1 by test site)			
	Rated Input:	100-240V~50/60Hz, 0.5A			
	Rated Output:	5.0V=2A			
	Manufacturer: Dong Guan City GangQi Electronic Co., Ltd				
	USB Cable 1				
	Model No.: 203-1572-0				
	Manufacturer: Guangdong Mingji Hi-Tech Electronics Co., Ltd				
	USB Cable 2				
	Model No.: 336275				
	Manufacturer: SUNTOPS ELECTRONICS CO.,LTD				
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Fax: 86-755-36698525

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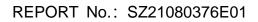
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Note:

- 1. There are two kinds of adapters, all adapters have been tested, For the CE and RE, only the worst case (Adapter 1) is recorded in this report.
- There are two kinds of USB Cables, both USB Cables have been tested, For the CE and RE, 2. only the worst case (USB Cable 1) is recorded in this report.
- For a more detailed description, please refer to specification or user's manual supplied by the 3. 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	2021.09.18	Su Zhan	PASS	No deviation	
2	15.109 Radiated Emission 202		2021.09.15	Lin Jiayong	PASS	No deviation	

Note 1:The tests were performed according to the method of measurements prescribed in ANSI C63.4-2014.

Note 2: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 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



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EUT Setup and Operating Conditions 2.2.

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

Test Mode	es				
Mode 1 :		GSM850 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from			
		Adapter) + Earphone + Adapter + SIM Card			
Mode 2 :		GSM1900 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from			
		Adapter) + Earphone + Adapter + SIM Card			
Mode3 :		WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging			
		from Adapter) + Earphone + Adapter + SIM Card			
Mode 4 :		LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from			
		Adapter) + Earphone + Adapter + SIM Card			
Mode 5 :		WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging			
		from Adapter) + Earphone + Adapter + SIM Card			
Mode 6 :		WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging			
		from Adapter) + Earphone + Adapter + SIM Card			
Mode 7 :		LTE Band 2 Idle+ Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from			
		Adapter) + Earphone + Adapter + SIM Card			
Mode 8 : LTE Band 5 Idle+ Bluetooth Idle + WLAN Idle + Camera + Battery + USB					
	Cable(Charging from Adapter) + Earphone + Adapter + SIM Card				
Mode 9 :		LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + MP4 + Battery + USB			
		Cable(Charging from Adapter) + Earphone + Adapter + SIM Card			
Mode 10 : LTE Band 26 Idle + Bluetooth Idle + WLAN Idle + PC(data transfer) + Battery +					
		SIM Card + PC Adapter + Earphone			
Mode 11 :		LTE Band 38 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from			
		Adapter) + Earphone + Adapter			
Mode 12 :		LTE Band 40 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from			
		Adapter) + Earphone + Adapter			
Mode 13 :		LTE Band 41 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from			
		Adapter) + Earphone + Adapter			
Mode 14 :		LTE Band 66 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from			
		Adapter) + Earphone + Adapter			
Remark:					
		est mode in boldface (Mode 8) was the worst case of conducted emission test, only			
		a of these modes were reported. The above test mode in boldface (Mode 10) 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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Tel: 86-755-36698555

Fax: 86-755-36698525

Http://www.morlab.cn E-mail: service@morlab.cn



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 AC power 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:

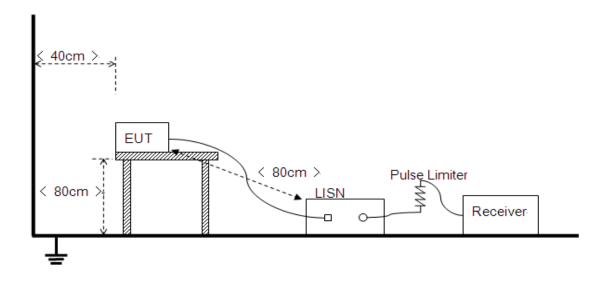
a) The limit subjects to the Class B digital device.

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.

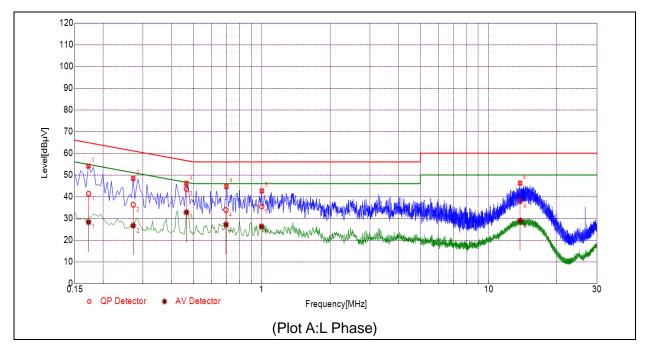
The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

3.1.3. Test Result

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.





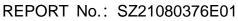


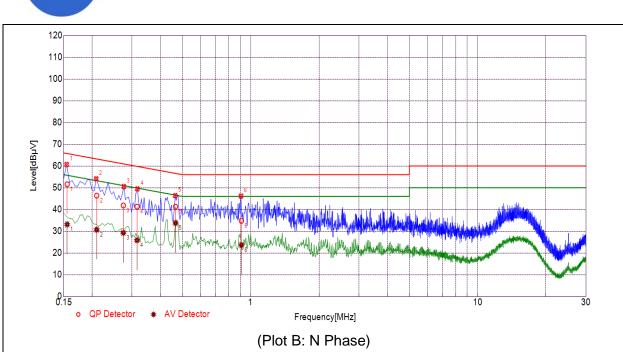
A. Test Plot and Suspicious Points:

NO. Fre.		e. Emission Level (d		Limit (c	dBμV)	Dower line	Verdict
MO. (MHz	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	verdict
1	0.1726	41.32	28.28	64.83	54.83		PASS
2	0.2715	36.27	26.65	61.07	51.07		PASS
3	0.4658	43.55	32.80	56.59	46.59	Line	PASS
4	0.6955	33.85	27.11	56.00	46.00	Line	PASS
5	1.0005	35.51	26.18	56.00	46.00		PASS
6	13.7755	37.97	28.86	60.00	50.00		PASS



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NO.	Fre.	Emission Level (dBµV)		Limit (d	dBμV)	Power-line	Verdict
NO.	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	vertici
1	0.1553	51.57	33.11	65.71	55.71	- Neutral	PASS
2	0.2095	46.35	30.69	63.22	53.22		PASS
3	0.2746	41.82	29.23	60.98	50.98		PASS
4	0.3155	41.28	25.85	59.82	49.82		PASS
5	0.4660	41.28	33.71	56.59	46.59		PASS
6	0.9094	34.77	23.64	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 I		
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:

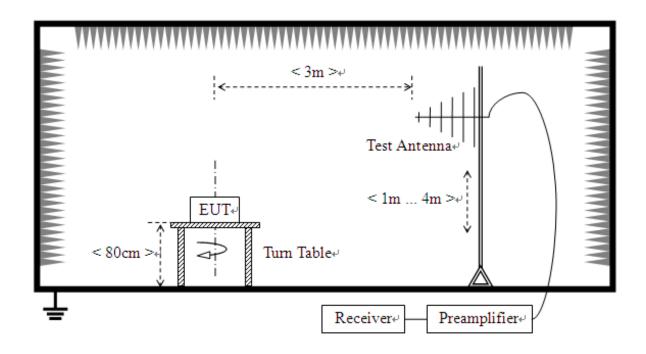
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705 1.705–108 108–500 500–1000 Above 1000	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.



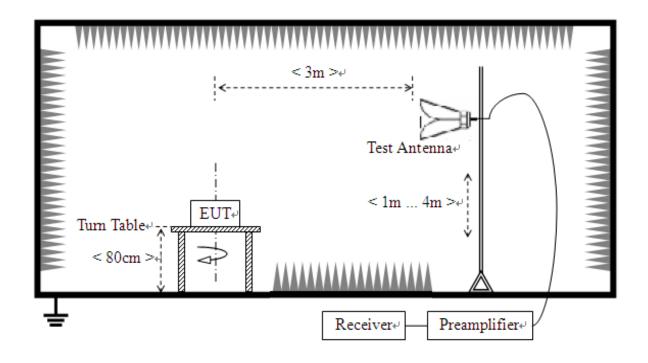


3.2.3. Test Setup

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 a 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

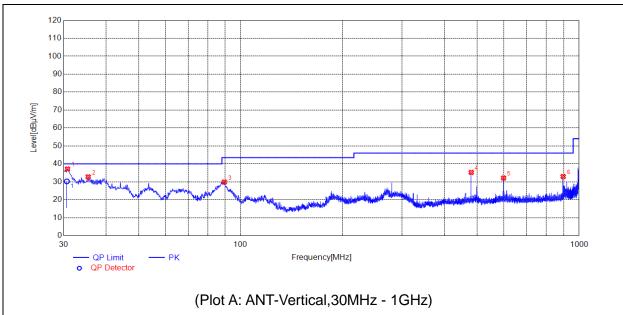
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform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

The amplitude of emissions (6GHz-13.5GHz)which 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.







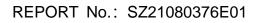
No.	Fre. MHz	Pk dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	30.7761	37.14	30.24	N.A	N.A	40.00	N.A	V	PASS
2	35.4325	32.77	N.A	N.A	N.A	40.00	N.A	V	PASS
3	89.4669	29.89	N.A	N.A	N.A	43.50	N.A	V	PASS
4	479.9310	35.27	N.A	N.A	N.A	46.00	N.A	V	PASS
5	597.9918	32.14	N.A	N.A	N.A	46.00	N.A	V	PASS
6	896.7817	32.96	N.A	N.A	N.A	46.00	N.A	V	PASS



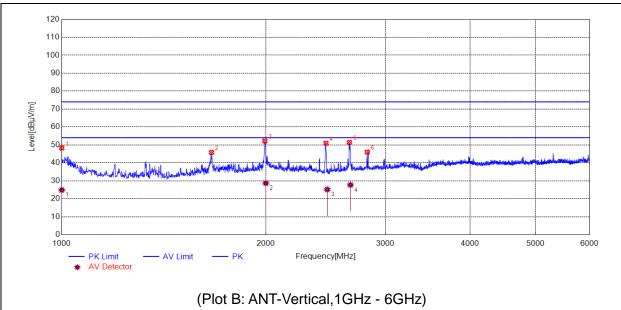
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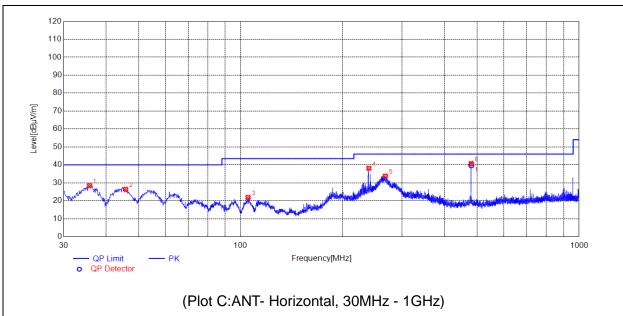
No.	Fre. MHz	Pk dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1000.0000	48.32	N.A	24.86	74.00	N.A	54.00	V	PASS
2	1663.1326	45.85	N.A	N.A	74.00	N.A	54.00	V	PASS
3	1993.1986	52.22	N.A	28.70	74.00	N.A	54.00	V	PASS
4	2453.2907	50.95	N.A	25.17	74.00	N.A	54.00	V	PASS
5	2656.3313	51.41	N.A	27.70	74.00	N.A	54.00	V	PASS
6	2822.3645	46.01	N.A	N.A	74.00	N.A	54.00	V	PASS



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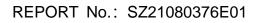
No.	Fre. MHz	Pk dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	35.7236	28.49	N.A	N.A	N.A	40.00	N.A	Н	PASS
2	45.7156	26.36	N.A	N.A	N.A	40.00	N.A	Н	PASS
3	105.0855	21.87	N.A	N.A	N.A	43.50	N.A	Н	PASS
4	239.1529	38.10	N.A	N.A	N.A	46.00	N.A	Н	PASS
5	267.5768	33.75	N.A	N.A	N.A	46.00	N.A	Н	PASS
6	479.9310	40.77	39.75	N.A	N.A	46.00	N.A	Н	PASS



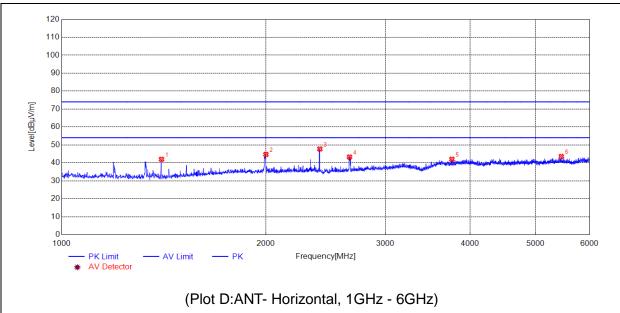
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No.	Fre. MHz	Pk dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1403.0806	42.01	N.A	N.A	74.00	N.A	54.00	Н	PASS
2	2000.2000	44.71	N.A	N.A	74.00	N.A	54.00	Н	PASS
3	2402.2805	47.76	N.A	N.A	74.00	N.A	54.00	Н	PASS
4	2657.3315	43.28	N.A	N.A	74.00	N.A	54.00	Н	PASS
5	3761.5523	42.03	N.A	N.A	74.00	N.A	54.00	Н	PASS
6	5455.8912	43.58	N.A	N.A	74.00	N.A	54.00	Н	PASS



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Annex A 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 B 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	
JS32-RE	Version 2.0.2.0	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
Receiver	N9038A	MY56400093	KEYSIGHT	2021/3/9	2022/3/8
Horn Antenna	BBHA 9120D	9120D-963	SCHWARZBE CK	2019/5/24	2022/5/23
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2020/10/20	2021/10/19
Preamplifier	S020180L320 3	61171/61172	LUCIX CORP.	2021/7/15	2022/7/14
Preamplifier	S10M100L380 2	46732	LUCIX CORP.	2021/7/15	2022/7/14
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

6. Ancillary Equipment Utilized

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

— END OF REPORT



Fax: 86-755-36698525 E-mail: service@morlab.cn

Http://www.morlab.cn