

TEST REPORT

APPLICANT	: Reliance Communications LLC
PRODUCT NAME	: Orbic AirSurf 5G UW
MODEL NAME	: R141TL5
BRAND NAME	: Orbic
FCC ID	: 2ABGH-R141TL5
STANDARD(S)	: 47 CFR Part 15 Subpart B
RECEIPT DATE	: 2021-07-29
TEST DATE	: 2021-10-19 to 2021-10-21
ISSUE DATE	: 2021-12-07

Edited by:He Sinuo(Rapporteur)Approved by:Xiao XiongXiao Xiong(Supervisor)

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Change History					
Version	Version Date Reason for Change				
1.0 2021-12-07		First edition			





Note: Provide by applicant

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications LLC	
Applicant Address:	ss: 91 Colin Drive, Unit 1, HOLBROOK, New York 11741, United	
	States	
Manufacturer:	Unimaxcomm	
Manufacturer Address: 35F,HBCHuiLong Center Building-II MinzhiStreet,Longhua,		
	Shenzhen, P.R. China 518110	

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic AirSurf 5G UW	
EUT No:	26#	
Hardware Version:	R141-REV12	
Software Version:	ORB141TL5_V1.1.9_SVZ	
Tx Frequency:	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 12: 699 MHz ~ 716 MHz	
	LTE Band 13: 777 MHz ~ 787 MHz	
	LTE Band 48:3550 MHz ~ 3700MHz	
	LTE Band 66: 1710 MHz ~ 1780 MHz	
	5G NR n2:1850 MHz ~ 1910 MHz	
	5G NR n5:824 MHz ~ 849 MHz	
	5G NR n66:1710 MHz ~ 1780 MHz	
	5G NR n77:3300 MHz ~ 4200 MHz	
	5G NR n78: 3300 MHz ~ 3800 MHz	
	5G NR n260:37000 MHz ~ 40000 MHz	
	5G NR n261:27500 MHz ~ 28350MHz	
	Bluetooth: 2402 MHz ~ 2480 MHz	
	802.11b/g/n/ax: 2412 MHz ~ 2472 MHz	
	802.11a/ac/n/ax: 5180 MHz ~ 5240 MHz;5260 MHz ~ 5320 MHz;	
	5500 MHz ~ 5720 MHz;5745 MHz ~ 5825 MHz	







Dy Fraguanovi		· 1020 MUz 1000 MUz		
Rx Frequency:	WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA BandIV:2110 MHz ~ 2155 MHz			
		:2110 MHz ~ 2133 MHz /: 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			
	LTE Band 12: 729 MHz ~ 746 MHz			
	LTE Band 13: 746 MHz ~ 756 MHz			
	LTE Band 48:35	50 MHz ~ 3700MHz		
	LTE Band 66: 21	10 MHz ~ 2200 MHz		
	5G NR n2: 1930	MHz ~ 1990 MHz		
	5G NR n5: 869 N	MHz ~ 894 MHz		
	5G NR n66:2110) MHz ~ 2200 MHz		
	5G NR n77:3300) MHz ~ 4200 MHz		
	5G NR n78: 330	0 MHz ~ 3800 MHz		
	5G NR n260: 37	000 MHz ~ 40000 MHz		
	5G NR n261: 27	500 MHz ~ 28350 MHz		
		MHz ~ 2480 MHz		
	0	2412 MHz ~ 2472 MHz		
		5180 MHz ~ 5240 MHz;5260 MHz ~ 5320 MHz;		
		720 MHz;5745 MHz ~ 5825 MHz5500 MHz ~ 5720		
Ancillary	MHz;5745MHz ~	- 5625IVIH2		
Ancillary Equipment:	AC Adapter Brand Name:	Orbic		
Equipment.	Model No.:	JHD-AP065U-190342BA-A		
	Serial No.:	(N/A, marked #1 by test site)		
	Rated Input:	100-240V~ 50/60Hz, 1.5A		
	Rated Output:	19V=3420mA,9V=2A,12V=1.5A		
	Manufacturer:	Shenzhen Jihongda Power Co., Ltd		
	Battery			
	Brand Name: Orbic			
	Model No.: BTE-6002			
	Serial No.: (N/A, marked #1 by test site)			
	Capacity: 6000mAh			
	Rated Voltage: 7.6V			
	Charge Limit:	8.7V		
	Manufacturer:	GANZHOU NOVEL BATTERY TECHNOLOGY CO.LTD		





1. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer.

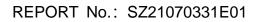


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2.1. Applied Reference Documents

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	2021.10.19	Su Zhan	PASS	No deviation
2	15.109	Radiated Emission	2021.10.21	Lin Jiayong	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	Test Modes		
Mode 1	:	WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone +	
		Adapter + SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 2	: WCDMA Band IVIdle + Bluetooth Idle + 5G WLAN Idle + Battery+ Earphone +		
	Adapter + SIM Card+ Keyboard + Mouse+ Mobile Phone		
Mode 3	:	WCDMA Band V Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery+ Earphone +	
		Adapter + SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 4	:	LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery+ Earphone + Adapter +	
		SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 5	:	LTE Band 4 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery+ Earphone + Adapter +	
		SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 6	:	LTE Band 5 Idle + Bluetooth Idle + 5G WLAN Idle + Battery+ Earphone + Adapter +	
		SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 7	:	LTE Band 12Idle + Bluetooth Idle + 5G WLAN Idle + Battery+ Earphone + Adapter +	
		SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 8	:	LTE Band 13Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery+ Earphone + Adapter +	
		SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 9	:	LTE Band 48 Idle + Bluetooth Idle + 5G WLAN Idle + Battery+ Earphone + Adapter +	
		SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 10	:	LTE Band 66 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery+ Earphone + Adapter	
		+ SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 11	:	SA_n2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery+ Earphone + Adapter + SIM	
		Card+ Keyboard + Mouse+ Mobile Phone	
Mode 12	:	SA_n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery+ Earphone + Adapter + SIM	
		Card+ Keyboard + Mouse+ Mobile Phone	
Mode 13	:	SA_n78 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery+ Earphone + Adapter +	
		SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 14	:	NSA_66A_n2A Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery+ Earphone +	
		Adapter + SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 15	:	NSA_2A_n5A Idle + Bluetooth Idle + 5G WLAN Idle + Battery+ Earphone + Adapter +	
		SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 16	:	NSA_2A_n66A Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery+ Earphone +	
		Adapter + SIM Card + 5.8G SRD Link+ Keyboard + Mouse+ Mobile Phone	
Mode 17	:	NSA_2A_n77A Idle + Bluetooth Idle + 5G WLAN Idle + Camera + Battery+	
		Earphone + Adapter + SIM Card + Keyboard + Mouse + Mobile Phone	





Mode 18 :	NSA_2A_n78A Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery+ Earphone +	
	Adapter + SIM Card+ Keyboard + Mouse+ Mobile Phone	
Mode 19:	NSA_2A_n260A Idle + Bluetooth Idle + 2.4G WLAN Idle + MP4 + Battery+	
	Earphone + Adapter + SIM Card + Keyboard + Mouse + Mobile Phone	
Mode 20 :	NSA_2A_n261A Idle + Bluetooth Idle + 5G WLAN Idle+ data transfer+ Battery +	
	Earphone + USB Cable + SIM Card + Adapter+ Keyboard + Mouse+ Mobile Phone	
Remark:		
The above test mode in boldface (Mode 17) was the worst case of conducted emission test, only		
the test data of these modes were reported. The above test mode in boldface (Mode 19) 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





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).

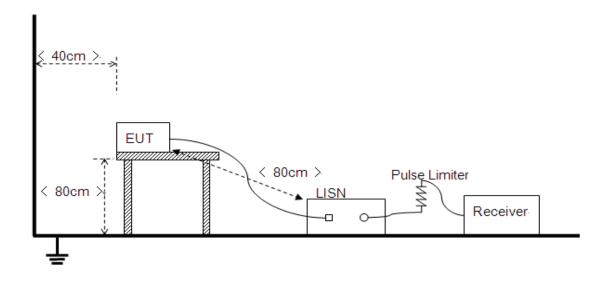
Frequency Range	Conducted Limit (dBµV)		
(MHz)	Quasi-peak	Average	
0.15 - 0.50	66 to 56	56 to 46	
0.50 - 5	56	46	
5 - 30	60	50	

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.

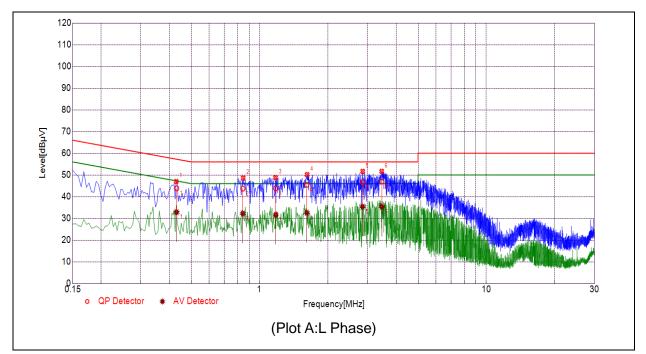
The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

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.





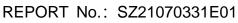


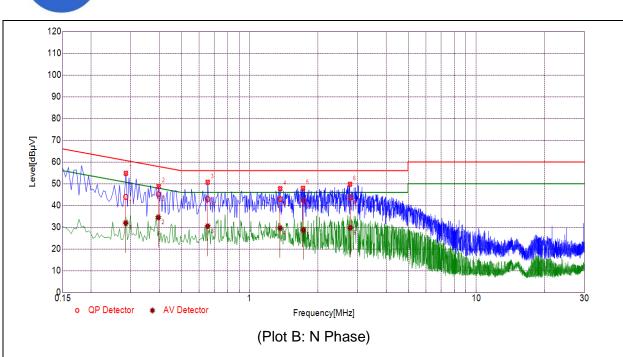
A. Test Plot and Suspicious Points:

NO.	Fre. Emission Lev		Fre. Emission Level (dBµV) Limit (dBµV)				Verdict
NO.	10. (MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	verdict
1	0.4307	43.84	32.85	57.24	47.24		PASS
2	0.8438	43.68	32.19	56.00	46.00		PASS
3	1.1793	43.80	31.63	56.00	46.00	l	PASS
4	1.6161	45.46	32.55	56.00	46.00	Line	PASS
5	2.8472	46.64	35.37	56.00	46.00		PASS
6	3.4597	46.96	35.39	56.00	46.00		PASS



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NO.	Fre. Emission Level (dBµ		evel (dBµV)	Limit (o	dBμV)	Dowor line	Verdict
NO.	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	verdict
1	0.2846	43.92	31.96	60.68	50.68		PASS
2	0.3960	45.18	34.50	57.94	47.94		PASS
3	0.6541	42.99	30.42	56.00	46.00	Neutrol	PASS
4	1.3636	42.95	29.57	56.00	46.00	Neutral	PASS
5	1.7258	42.34	28.71	56.00	46.00		PASS
6	2.7823	43.64	29.77	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:

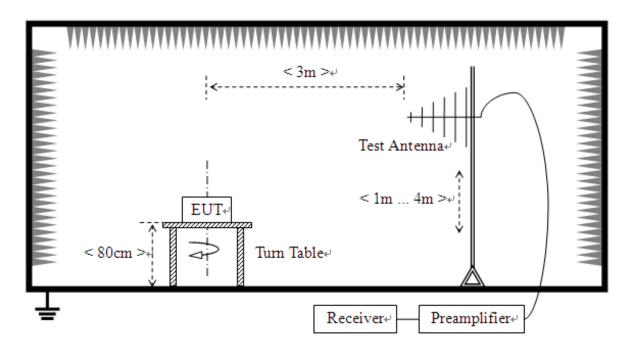
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705 1.705–108 108–500 500–1000 Above 1000	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.



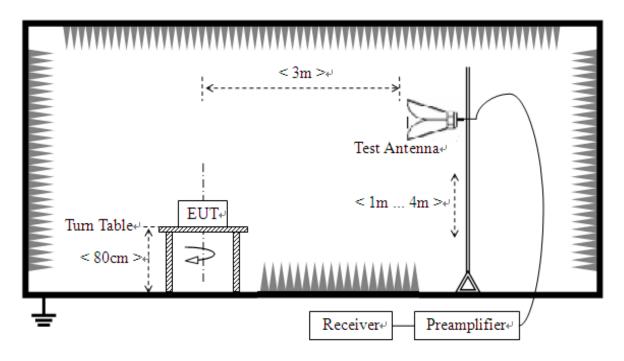


3.2.3. Test Setup

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 detectionmeasurements 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 bandwidthis set to 3MHz for peak measurements and as applicable for average measurements.

3.2.4. Test Result

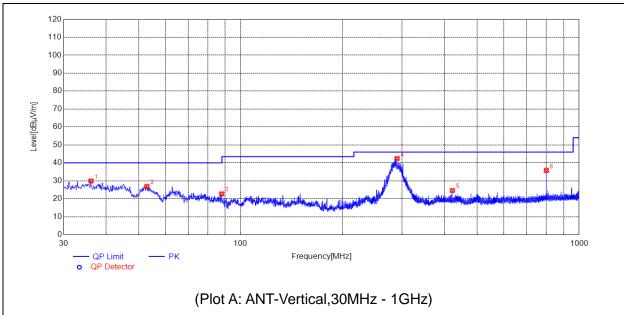
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform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

The amplitude of emissions which (6GHz-40GHz) 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	36.1116	29.91	N.A	N.A	N.A	40.00	N.A	V	PASS
2	52.7973	26.88	N.A	N.A	N.A	40.00	N.A	V	PASS
3	87.8178	22.75	N.A	N.A	N.A	40.00	N.A	V	PASS
4	289.6950	42.44	N.A	N.A	N.A	46.00	N.A	V	PASS
5	422.2102	24.62	N.A	N.A	N.A	46.00	N.A	V	PASS
6	800.0630	35.78	N.A	N.A	N.A	46.00	N.A	V	PASS

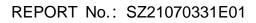


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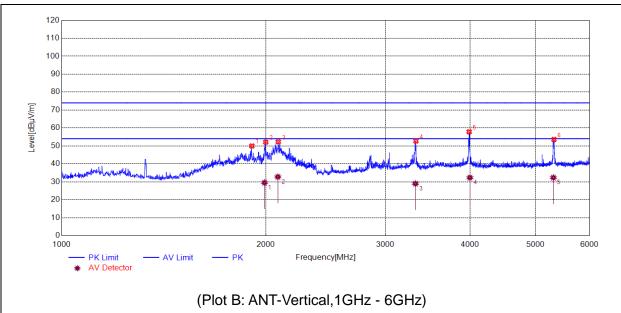
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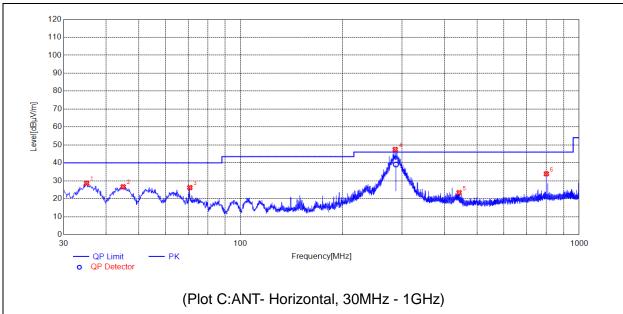


No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1907.1814	49.98	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1999.1998	52.11	N.A	29.51	74.00	N.A	54.00	V	PASS
3	2086.2172	52.33	N.A	32.75	74.00	N.A	54.00	V	PASS
4	3329.4659	52.74	N.A	28.97	74.00	N.A	54.00	V	PASS
5	3989.5979	57.90	N.A	32.32	74.00	N.A	54.00	V	PASS
6	5320.8642	53.62	N.A	32.32	74.00	N.A	54.00	V	PASS



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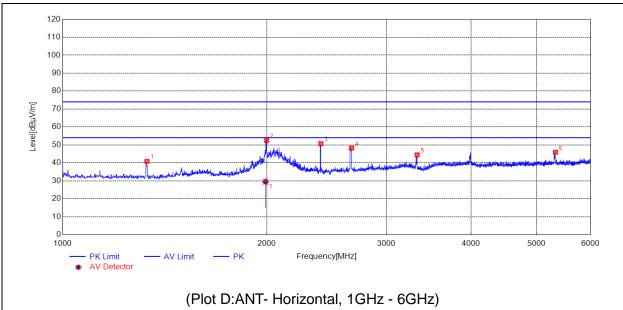
No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	35.0445	28.68	N.A	N.A	N.A	40.00	N.A	Н	PASS
2	44.9395	26.71	N.A	N.A	N.A	40.00	N.A	Н	PASS
3	70.7441	26.22	N.A	N.A	N.A	40.00	N.A	Н	PASS
4	286.1056	47.49	39.08	N.A	N.A	46.00	N.A	Н	PASS
5	441.8062	23.41	N.A	N.A	N.A	46.00	N.A	Н	PASS
6	800.0630	33.91	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	1331.0662	40.86	N.A	N.A	74.00	N.A	54.00	Н	PASS
2	1998.1996	52.47	N.A	29.48	74.00	N.A	54.00	Н	PASS
3	2402.2805	50.74	N.A	N.A	74.00	N.A	54.00	Н	PASS
4	2666.3333	48.27	N.A	N.A	74.00	N.A	54.00	Н	PASS
5	3331.4663	44.50	N.A	N.A	74.00	N.A	54.00	Н	PASS
6	5329.8660	45.92	N.A	N.A	74.00	N.A	54.00	Н	PASS





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
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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	SCHWARZBECK	2019/5/24	2022/5/23
Horn Antenna	BBHA 9120D	01774	SCHWARZBECK	2019/7/26	2022/7/25
Horn Antenna	BBHA 9170	BBHA 9170#773	SCHWARZBECK	2019/7/26	2022/7/25
Receiver	N9038A	MY564000 93	KEYSIGHT	2021/3/9	2022/3/8
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2021/10/18	2022/10/17
Preamplifier	S020180L3203	61171/611 72	LUCIX CORP.	2021/7/15	2022/7/14
Preamplifier	S10M100L3802	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	SCHWARZBECK	2021/7/21	2022/7/20

6. Ancillary Equipment Utilized

Description	Manufacturer	Model	Serial No.
Battery	BOSCH	N/A	N/A

_____ END OF REPORT _____

