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TEST REPORT

Application No: ZR/2020/80017

Applicant: vivo Mobile Communication Co., Ltd.

Address of Applicant #283,BBK Road,Wusha,Chang'An, DongGuan City, China

Manufacturer: vivo Mobile Communication Co., Ltd.

Address of Manufacturer: #283,BBK Road,Wusha,Chang'An, DongGuan City, China

EUT Description: Mobile phone

Model No.: V2027 Trade Mark: vivo

FCC ID: 2AUCY-V2027

Standard(s): 47 CFR Part 15, Subpart B

Date of Receipt: 2020/8/7

Date of Test: 2020/8/7 to 2020/8/30

Date of Issue: 2021/8/19

Test Result: Pass*

Authorized Signature:

Simon Ling

Wireless Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record									
Version	Chapter	Date	Remark							
01		2020/8/31		Original						
02		2021/5/26	Leah Chen	Modify data conversion error of antenna height Updated equipment list						
03		2021/8/19	Leah Chen	Updated Support Units, Test facility and Test Location						

Authorized for issue by:	
Prepared By	(Leah Chen) / Engineer
Checked By	Daniel Wang) /Reviewer





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Test Summary

Emission Part									
Item	Standard	Method	Requirement	Result					
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass					
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass					
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass					

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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1 General Information

Product Name:	Mobile phone							
Model No.(EUT):	V2027	V2027						
Trade Mark:	vivo							
Hardware Version:	MP_0.1	MP_0.1						
Software Version:	PD2034EF_EX_A_3.2.4							
	Band	Tx (MHz)	Rx (MHz)					
	GSM850	824~849	869~894					
	GSM1900	1850~1910	1930~1990					
	WCDMA Band II	1850~1910	1930~1990					
	WCDMA Band IV	1710~1755	2110~2155					
	WCDMA Band V	824~849	869~894					
	LTE Band 2	1850~1910	1930~1990					
	LTE Band 4	1710~1755	2110~2155					
Frequency Bands:	LTE Band 5	824~849	869~894					
	LTE Band 7	2500~2570	2620~2690					
	LTE Band 38	2570~2620	2570~2620					
	LTE Band 41	2535~2655	2535~2655					
	Wi-Fi 2.4G	2412~2472	2412~2472					
	Bluetooth	2402~2480	2402~2480					
	Wi-Fi 5G	5150~5850	5150~5850					
	FM	/	88~108					
	GNSS	/	1559~1610					

Accessory:

Accessory Equipment	Manufacturer/trademark	Model	Specification				
Adapter1	Dongguan Aohai Technology CO., LTD.	V1020D-EU	DC 5V/2A				
Adapter2	Phihong Technology Co., Ltd.	V1020D-US	DC 5V/2A				
Adapter3	Dongguan Aohai Technology CO., LTD.	V1820B-US	DC5V/2A-9V/2A				
Earphone	VIVO	XE160	/				
Battery1	Sunwoda Electronic CO.,LTD.	B-O5	4910mAh 3.87V				
Battery2	Dongguan NVT Technology Co.,Ltd	B-O5	4910mAh 3.87V				
Battery3	Huizhou Desay Battery Co., Ltd.	B-O5	4910mAh 3.87V				
USB Cable	VIVO	BK-C-19	97cm				
Remark: All accessory equipment above were conduct test in this report.							

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Test modes:

Pretest these modes to find the worst case:

a: Transfer data between the EUT1 and the PC+USB cable

b: Telecom Idle+BT+WLAN5G+GNSS+EUT1+Playing MP4+USB

Cable+adapter1+earphone+Battery1

c: Telecom Idle+BT+WLAN5G+GNSS+EUT2+camera(Front)+USB

Cable+adapter2+earphone+Battery2

d: Telecom Idle+BT+WLAN2.4G+GNSS+EUT(worst)+camera(Back)+USB

Cable+adapter3+earphone+Battery3

e: GSM850 Idle+BT+WLAN2.4G+GNSS+EUT(worst)+Playing MP4+USB

Cable+adapter(worst)+earphone+Battery(worst)

f: WCDMA Band V Idle+BT+WLAN2.4G+GNSS+EUT(worst)+Playing MP4+USB

Cable+adapter(worst)+earphone+Battery(worst)

g: LTE Band5 Idle+BT+WLAN2.4G+GNSS+EUT(worst)+Playing MP4+USB

Cable+adapter(worst)+earphone+Battery(worst)

h: FM mode_98MHz

Remark: 1. The difference between EUT1 and EUT2 is only memory change, memory from 4+64G change to 4+128G.



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	outer NETGEAR R6020		No.XA1401
Computer	Lenovo	L480	No.XA1402
Mouse	Mouse A4TECH		No.XA1403

1.2 Test Location

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang, Leah Chen

1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• FCC -Designation Number: CN1271.

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None



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2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014 Frequency Range: 150kHz to 30MHz

Limit:

0.15M-0.5MHz 66dB(μ V)-56dB(μ V) quasi-peak, 56dB(μ V)-46dB(μ V) average

0.5M-5MHz 56dB(μ V) quasi-peak, 46dB(μ V) average 5M-30MHz 60dB(μ V) quasi-peak, 50dB(μ V) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

2.1.1 E.U.T. Operation

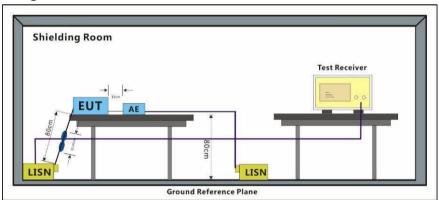
Operating Environment:

Temperature: 18.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1000 mbar

The worst case e: GSM850 Idle+BT+WLAN2.4G+GNSS+EUT(worst)+Playing MP4+USB

for final test: Cable+adapter(worst)+earphone+Battery(worst)

2.1.2 Test Setup Diagram



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



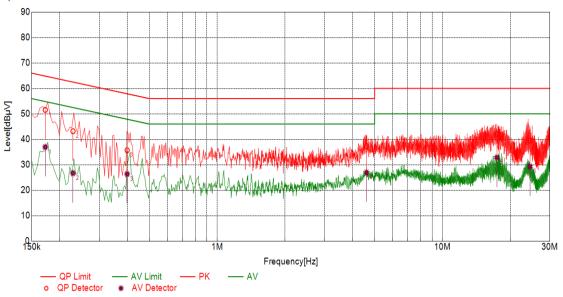
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Mode:e; Line:Live Line



Test Graph

Final	Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Туре	
1	0.1726	10.10	51.55	64.84	13.29	36.94	54.84	17.90	L	
2	0.2291	10.10	43.18	62.48	19.30	26.68	52.48	25.80	L	
3	0.3985	10.10	35.69	57.88	22.19	26.36	47.88	21.52	L	
4	4.6022	10.10	37.35	56.00	18.65	26.93	46.00	19.07	L	
5	17.4497	10.11	42.01	60.00	17.99	32.85	50.00	17.15	L	
6	24.4589	10.11	39.52	60.00	20.48	29.33	50.00	20.67	L	

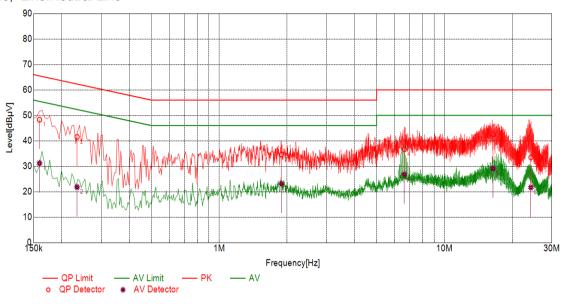




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Mode:e; Line:Neutral Line



Test Graph

Final	Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Value [dBμV]	ΑV Limit [dBμV]	AV Margin [dB]	Туре	
1	0.1594	10.10	48.29	65.49	17.20	31.17	55.49	24.32	N	
2	0.2340	10.10	41.53	62.31	20.78	21.80	52.31	30.51	N	
3	1.8903	10.10	34.62	56.00	21.38	23.11	46.00	22.89	N	
4	6.6326	10.10	36.71	60.00	23.29	26.81	50.00	23.19	N	
5	16.4391	10.11	42.52	60.00	17.48	29.10	50.00	20.90	N	
6	24.2134	10.11	33.48	60.00	26.52	21.69	50.00	28.31	N	



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2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014 Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30 MHz - 88 MHz $40.0 (\text{dB}\mu\text{V/m})$ quasi-peak 88 MHz - 216 MHz $43.5 (\text{dB}\mu\text{V/m})$ quasi-peak $46.0 (\text{dB}\mu\text{V/m})$ quasi-peak 960 MHz - 1000 MHz $54.0 (\text{dB}\mu\text{V/m})$ quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

2.1.4 E.U.T. Operation

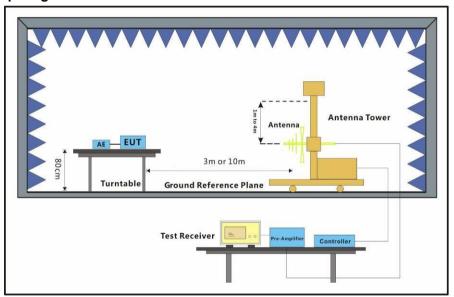
Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

The worst case a: Transfer data between the EUT1 and the PC+USB cable

for final test:

2.1.5 Test Setup Diagram



2.1.6 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



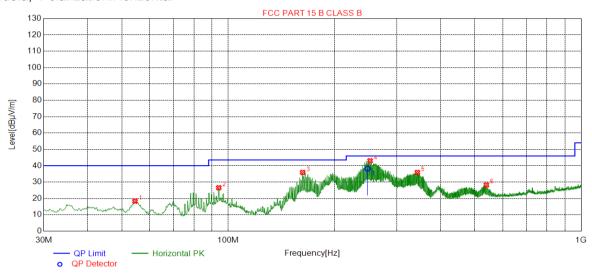
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Mode:a; Polarization:Horizontal



Suspected List

- uopo	Odopotod Elot										
Susp	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	54.4489	18.29	-31.04	40.00	21.71	238	255	Horizontal			
2	94.0328	26.58	-33.05	43.50	16.92	224	244	Horizontal			
3	162.528	35.94	-34.48	43.50	7.56	218	198	Horizontal			
4	252.368	43.05	-29.59	46.00	2.95	135	207	Horizontal			
5	343.566	35.91	-27.04	46.00	10.09	176	75	Horizontal			
6	538.963	28.25	-22.32	46.00	17.75	193	128	Horizontal			

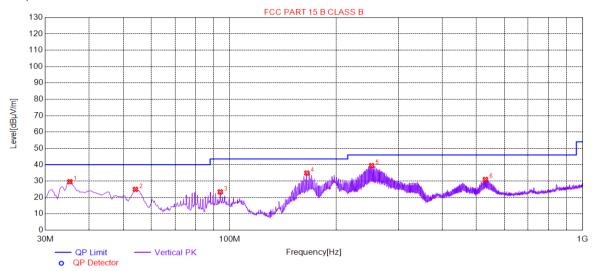




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Mode:a; Polarization: Vertical



Suspected List

<u>-uopo</u>	dopeoted Elot							
Susp	Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.2390	29.63	-29.88	40.00	10.37	209	43	Vertical
2	54.0608	24.95	-30.98	40.00	15.05	183	294	Vertical
3	94.0328	23.43	-33.05	43.50	20.07	228	230	Vertical
4	165.439	34.93	-34.31	43.50	8.57	222	329	Vertical
5	252.368	39.44	-29.59	46.00	6.56	224	224	Vertical
6	530.426	31.00	-22.54	46.00	15.00	280	358	Vertical



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2.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014 Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBµV/m) peak, 54(dBµV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

2.1.7 E.U.T. Operation

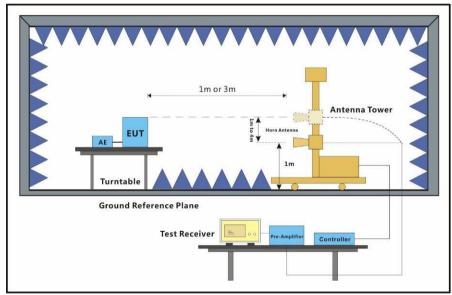
Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

The worst case e: GSM850 Idle+BT+WLAN2.4G+GNSS+EUT(worst)+Playing MP4+USB

for final test: Cable+adapter(worst)+earphone+Battery(worst)

2.1.8 Test Setup Diagram



2.1.9 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.



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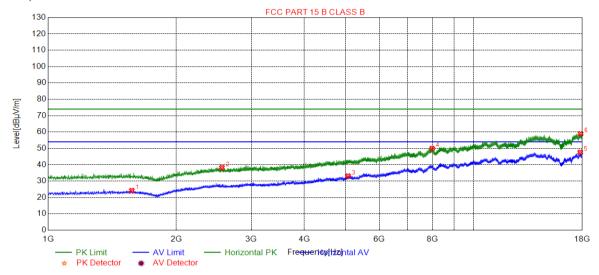
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Mode:e; Polarization:Horizontal



Suspected List

Guspec	Suspected List							
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1572.07	24.24	-30.35	54.00	29.76	175	279	Horizontal
2	2560.67	38.25	-25.90	74.00	35.75	146	231	Horizontal
3	5069.15	33.10	-17.33	54.00	20.90	145	355	Horizontal
4	7987.34	49.95	-8.18	74.00	24.05	155	355	Horizontal
5	17801.9	47.60	0.68	54.00	6.40	153	193	Horizontal
6	17835.9	58.95	0.49	74.00	15.05	181	317	Horizontal

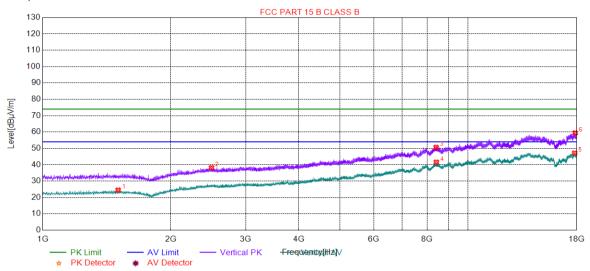




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Mode:e; Polarization:Vertical



Suspected List

Ouspe	Suspected List							
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1504.07	24.50	-30.43	54.00	29.50	202	231	Vertical
2	2493.52	38.18	-25.89	74.00	35.82	207	5	Vertical
3	8407.27	50.63	-7.78	74.00	23.37	154	269	Vertical
4	8416.62	41.57	-7.76	54.00	12.43	240	166	Vertical
5	17794.2	47.11	0.71	54.00	6.89	242	242	Vertical
6	17844.4	59.44	0.44	74.00	14.56	251	280	Vertical





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3 Equipment List

CE Test System							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10		
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01		
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06		
restreceiver	ROHDEASCHWARZ	ESK	XAVV01-06-01	2020-09-11	2021-09-10		
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05		
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR		

RE Test System							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10		
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01		
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01		
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06		
restreceiver	RUNDE&SCHWARZ	ESK	XAVV01-06-01	2020-09-11	2021-09-10		
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12		
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12		
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12		
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR		
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR		
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17		
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17		
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02		
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05		
Measurement Software	Tonscend	TS+ RE V3.0.0.2	XAW02-05-01	NCR	NCR		



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
		± 4.8dB (Below 1GHz)		
	Radiated Emission	± 4.8dB (1GHz to 6GHz)		
2		± 4.5dB (6GHz to 18GHz)		
		± 5.02dB (Above 18GHz)		



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5 Photographs

5.1 Test Setup

Refer to Appendix A - Photographs of Set-Up for ZR/2020/80017.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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