

FCC REPORT

Applicant: VINSMART RESEARCH AND MANUFACTURE JOINT STOCK COMPANY

Address of Applicant: Lot CN1-06B-1&2 Hi-Tech Industrial Park 1, Hoa Lac Hi-Tech Park, Ha Bang, Thach That, Hanoi, Vietnam

Equipment Under Test (EUT)

Product Name: SMARTPHONE

Model No.: V230L

Trade mark: Vsmart

FCC ID: 2AVD3-V230LDS

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 25 Dec., 2019

Date of Test: 26 Dec., 2019 to 03 Jan., 2020

Date of report issued: 01 Apr., 2020

Test Result: PASS *

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

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	06 Jan., 2020	Original
01	01 Apr., 2020	Updated test date on P.1

Tested by:

Yaro Wu

Test Engineer

Date:

01 Apr., 2020

Reviewed by:

Winner Zhang

Project Engineer

Date:

01 Apr., 2020

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: The EUT not applicable of the test item.		
Test Method:	ANSI C63.4:2014	

5 General Information

5.1 Client Information

Applicant:	VINSMART RESEARCH AND MANUFACTURE JOINT STOCK COMPANY
Address:	Lot CN1-06B-1&2 Hi-Tech Industrial Park 1, Hoa Lac Hi-Tech Park, Ha Bang, Thach That, Hanoi, Vietnam
Manufacturer/Factory:	VINSMART RESEARCH AND MANUFACTURE JOINT STOCK COMPANY
Address:	Lot CN1-06B-1&2 Hi-Tech Industrial Park 1, Hoa Lac Hi-Tech Park, Ha Bang, Thach That, Hanoi, Vietnam

5.2 General Description of E.U.T.

Product Name:	SMARTPHONE
Model No.:	V230L
Power supply:	Rechargeable Li-ion Battery DC3.8V, 3000mAh
AC adapter:	Model: ADS-5RE-06 05050EPCU Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5V, 1A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX7070	2J8XSZ2	DoC
DELL	MONITOR	SE2018HR	3M7QPY2	DoC
DELL	KEYBOARD	KB216d	N/A	DoC
DELL	MOUSE	MS116t1	N/A	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type	Description	Length	From	To
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter

5.8 Additions to, deviations, or exclusions from the method

No

5.9 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.10 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

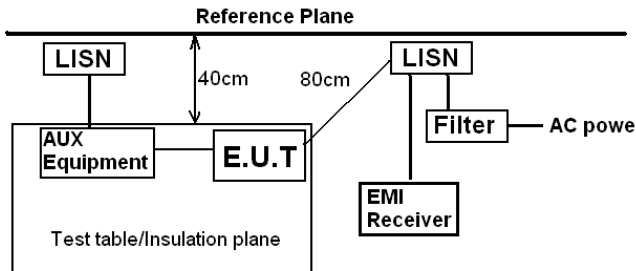
5.11 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-18-2019	03-17-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2019	11-20-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2019	11-20-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-18-2019	03-17-2020
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2019	07-20-2020
Cable	HP	10503A	N/A	03-18-2019	03-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		

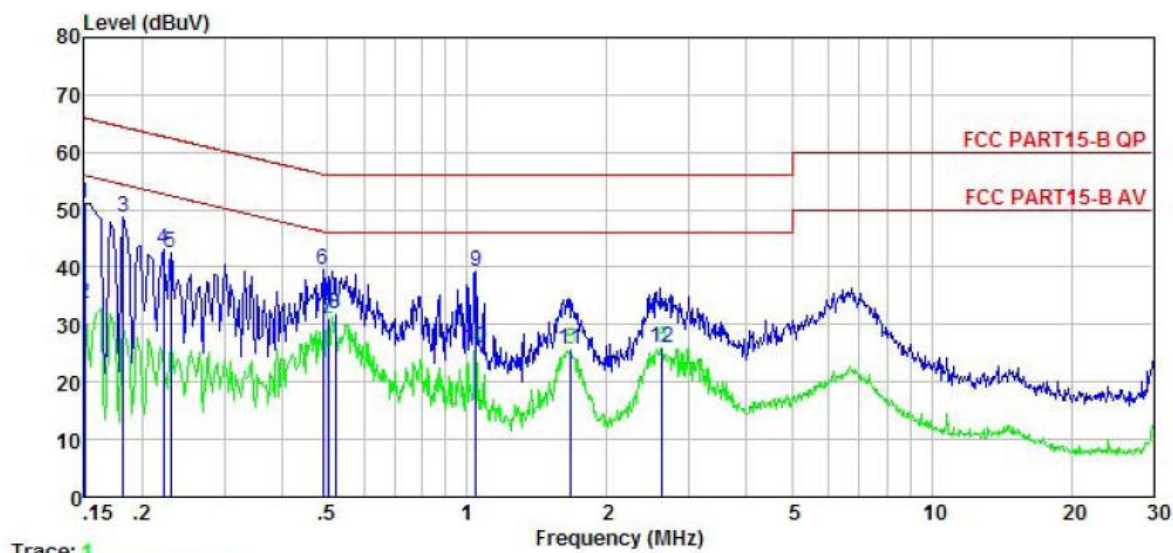
6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
* Decreases with the logarithm of the frequency.			
Test setup:	 Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test procedure	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4(latest version) on conducted measurement.		
Test Instruments:	Refer to section 5.11 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement data:

Product name:	SMARTPHONE	Product model:	V230L
Test by:	Yaro	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Humi: 55%

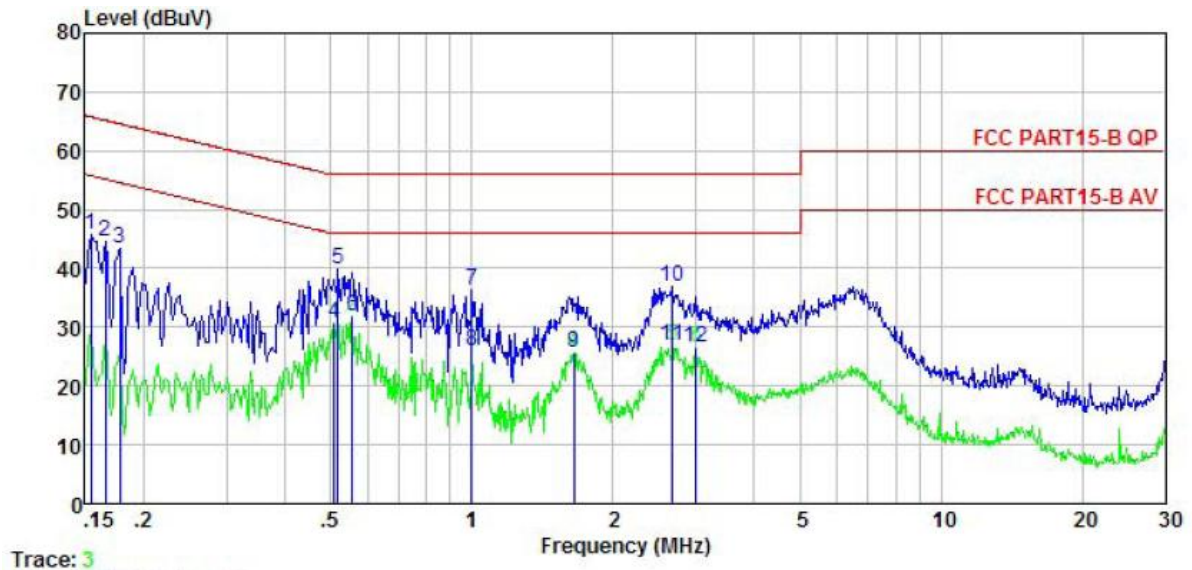


	Freq	Read	LISN	Aux	Cable	Level	Limit	Over	
	MHz	dBuV	Factor	Factor	Loss	dBuV	Line	Limit	Remark
			dB	dB	dB		dBuV	dB	
1	0.150	40.89	-0.45	-0.05	10.78	51.17	66.00	-14.83	QP
2	0.150	23.34	-0.45	-0.05	10.78	33.62	56.00	-22.38	Average
3	0.182	38.51	-0.42	-0.12	10.77	48.74	64.42	-15.68	QP
4	0.222	33.03	-0.40	-0.19	10.76	43.20	62.74	-19.54	QP
5	0.230	32.39	-0.40	-0.20	10.75	42.54	62.44	-19.90	QP
6	0.489	29.36	-0.39	-0.26	10.76	39.47	56.19	-16.72	QP
7	0.502	21.03	-0.39	-0.35	10.76	31.05	46.00	-14.95	Average
8	0.521	21.77	-0.39	-0.36	10.76	31.78	46.00	-14.22	Average
9	1.043	28.40	-0.38	0.41	10.88	39.31	56.00	-16.69	QP
10	1.043	15.19	-0.38	0.41	10.88	26.10	46.00	-19.90	Average
11	1.671	15.26	-0.40	-0.12	10.94	25.68	46.00	-20.32	Average
12	2.636	15.62	-0.43	-0.25	10.93	25.87	46.00	-20.13	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	SMARTPHONE	Product model:	V230L
Test by:	Yaro	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Humi: 55%

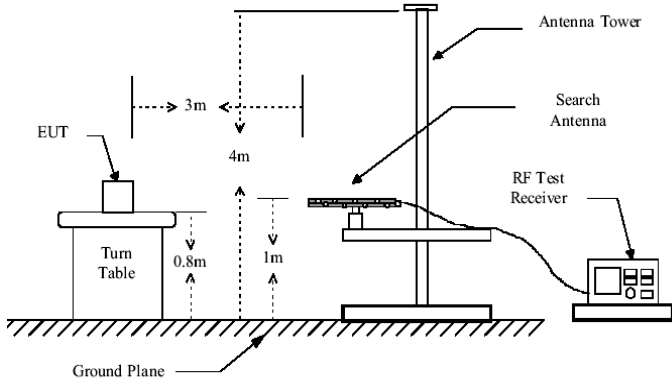
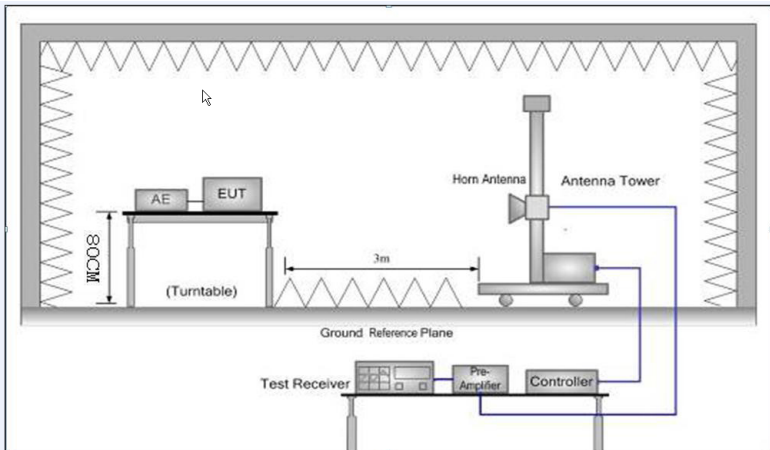


	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	35.71	-0.68	0.01	10.78	45.82	65.78	-19.96	QP
2	0.166	34.39	-0.68	0.01	10.77	44.49	65.16	-20.67	QP
3	0.178	33.19	-0.69	0.00	10.77	43.27	64.59	-21.32	QP
4	0.510	20.51	-0.65	0.03	10.76	30.65	46.00	-15.35	Average
5	0.518	29.61	-0.65	0.03	10.76	39.75	56.00	-16.25	QP
6	0.555	21.81	-0.65	0.03	10.76	31.95	46.00	-14.05	Average
7	1.000	26.11	-0.63	0.08	10.87	36.43	56.00	-19.57	QP
8	1.000	15.52	-0.63	0.08	10.87	25.84	46.00	-20.16	Average
9	1.654	15.16	-0.66	0.15	10.94	25.59	46.00	-20.41	Average
10	2.664	26.35	-0.67	0.27	10.93	36.88	56.00	-19.12	QP
11	2.678	16.47	-0.67	0.27	10.93	27.00	46.00	-19.00	Average
12	3.009	16.05	-0.67	0.32	10.92	26.62	46.00	-19.38	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

6.2 Radiated Emission

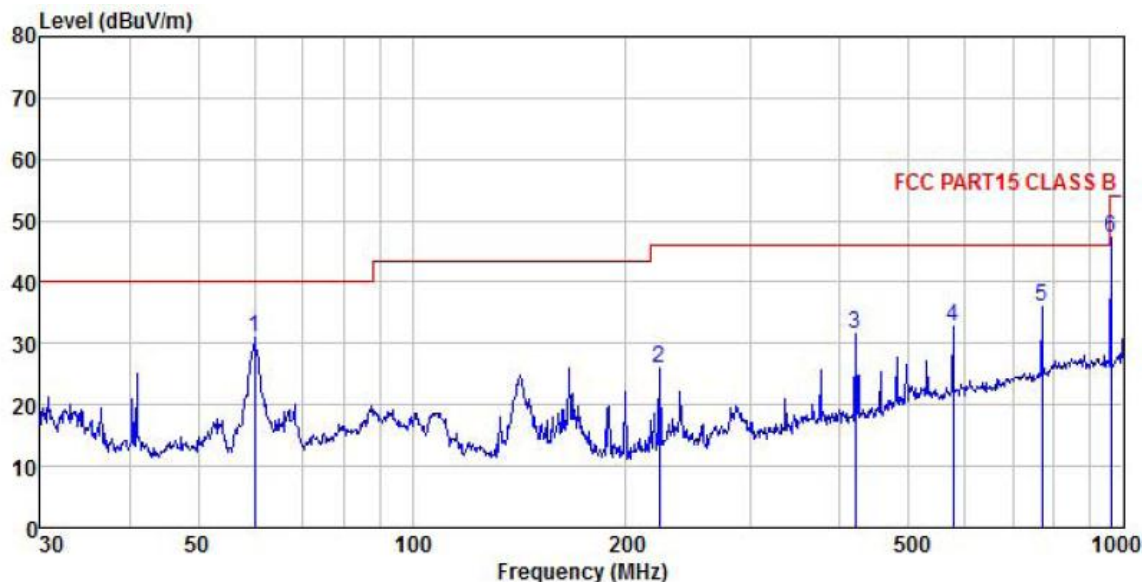
Test Requirement:	FCC Part 15 B Section 15.109				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
RMS		1MHz	3MHz	Average Value	
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
74.0			Peak Value		
Test setup:	Below 1GHz				
					
Test setup:	Above 1GHz				
					
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.				

	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded

Measurement Data:

Below 1GHz:

Product Name:	SMARTPHONE	Product Model:	V230L
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

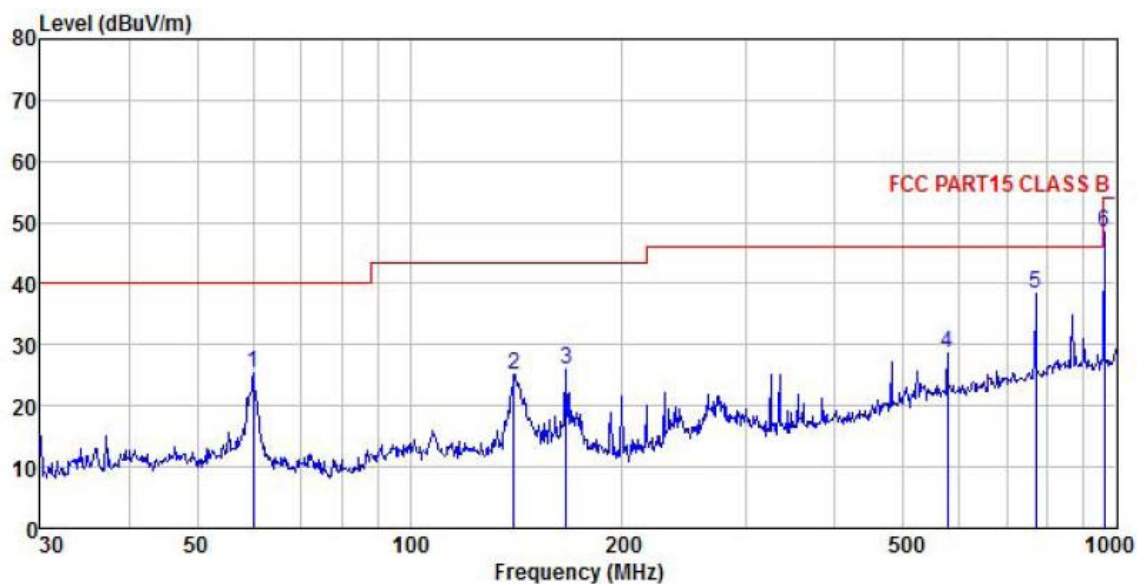


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	60.069	47.91	11.40	1.38	29.77	30.92	40.00	-9.08	QP
2	222.950	40.22	11.63	2.84	28.69	26.00	46.00	-20.00	QP
3	420.580	41.40	15.81	3.13	28.82	31.52	46.00	-14.48	QP
4	576.644	38.83	19.00	3.92	29.01	32.74	46.00	-13.26	QP
5	768.748	39.21	20.94	4.36	28.37	36.14	46.00	-9.86	QP
6	962.162	47.88	22.73	4.27	27.65	47.23	54.00	-6.77	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	SMARTPHONE	Product Model:	V230L
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%



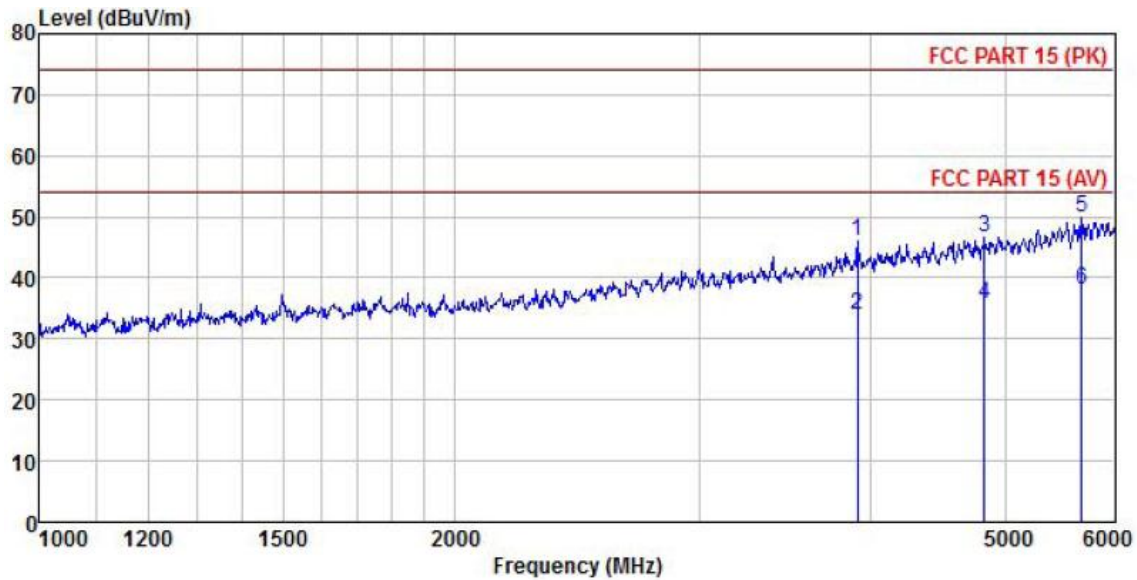
	Freq	ReadAntenna	Cable Preamp		Limit	Over	
		Level Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	60.069	42.44	11.40	1.38	29.77	25.45	40.00 -14.55 QP
2	140.342	42.59	9.50	2.41	29.27	25.23	43.50 -18.27 QP
3	166.651	42.95	9.52	2.64	29.08	26.03	43.50 -17.47 QP
4	576.644	34.60	19.00	3.92	29.01	28.51	46.00 -17.49 QP
5	768.748	41.41	20.94	4.36	28.37	38.34	46.00 -7.66 QP
6	962.162	49.13	22.73	4.27	27.65	48.48	54.00 -5.52 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Above 1GHz:

Product Name:	SMARTPHONE	Product Model:	V230L
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

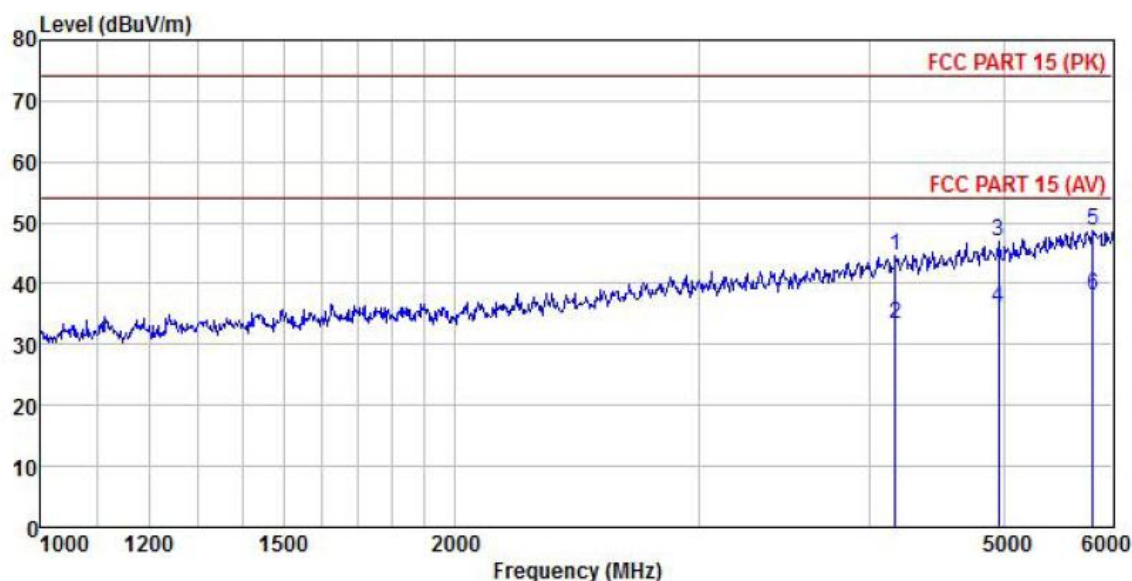


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3909.967	49.40	30.01	6.10	41.80	45.91	74.00	-28.09	Peak
2	3909.967	37.31	30.01	6.10	41.80	33.82	54.00	-20.18	Average
3	4830.532	48.23	31.08	6.82	41.82	46.77	74.00	-27.23	Peak
4	4830.532	37.04	31.08	6.82	41.82	35.58	54.00	-18.42	Average
5	5685.998	49.00	32.64	7.55	41.89	50.00	74.00	-24.00	Peak
6	5685.998	37.06	32.64	7.55	41.89	38.06	54.00	-15.94	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	SMARTPHONE	Product Model:	V230L
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



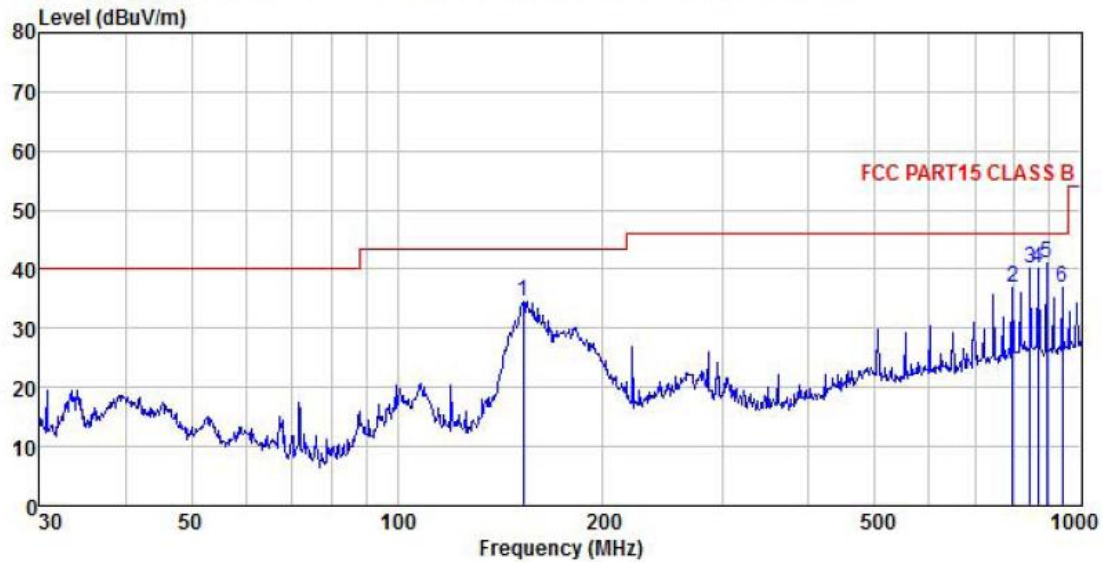
	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4170.485	47.51	30.34	6.36	41.81	44.66	74.00	-29.34 Peak
2	4170.485	36.08	30.34	6.36	41.81	33.23	54.00	-20.77 Average
3	4953.236	48.01	31.31	6.91	41.87	46.85	74.00	-27.15 Peak
4	4953.236	37.26	31.31	6.91	41.87	36.10	54.00	-17.90 Average
5	5799.177	47.40	32.66	7.89	42.02	48.68	74.00	-25.32 Peak
6	5799.177	36.71	32.66	7.89	42.02	37.99	54.00	-16.01 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Below 1GHz:

Product Name:	SMARTPHONE	Product Model:	V230L
Test By:	Yaro	Test mode:	Charging & Recording mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

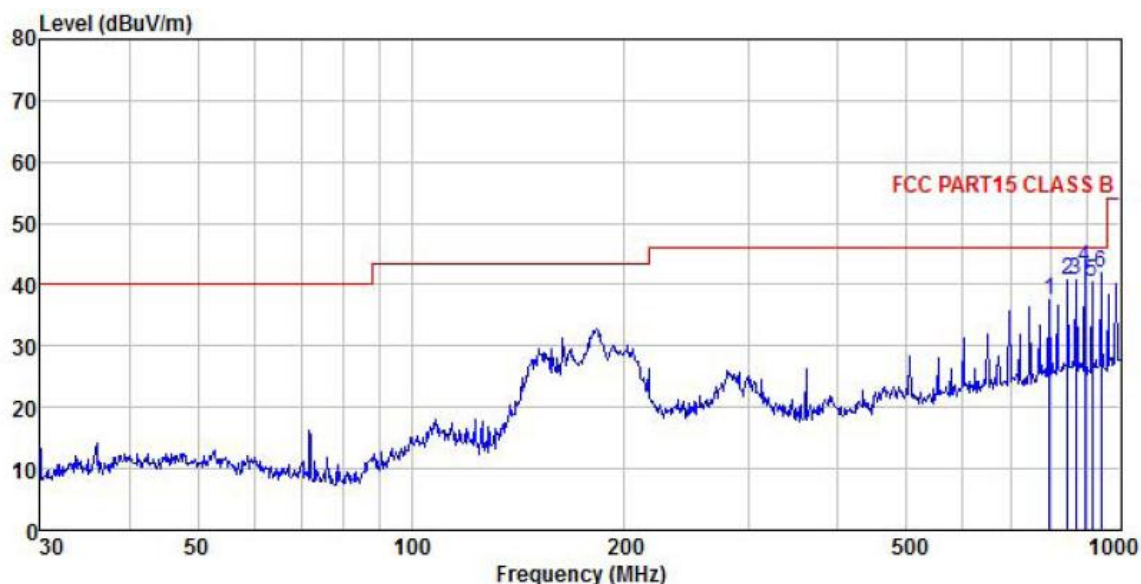


	Freq	ReadAntenna	Cable Preamp		Limit	Over		
		Level Factor	Loss Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	152.664	52.20	9.00	2.53	29.20	34.53	43.50	-8.97 QP
2	793.396	39.45	21.39	4.35	28.23	36.96	46.00	-9.04 QP
3	842.130	41.62	22.44	4.22	28.03	40.25	46.00	-5.75 QP
4	866.088	41.50	22.56	4.04	27.96	40.14	46.00	-5.86 QP
5	890.728	42.56	22.52	3.80	27.90	40.98	46.00	-5.02 QP
6	938.833	37.99	22.65	4.10	27.76	36.98	46.00	-9.02 QP

Remark:

3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	SMARTPHONE	Product Model:	V230L
Test By:	Yaro	Test mode:	Charging & Recording mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	793.396	40.11	21.39	4.35	28.23	37.62	46.00	-8.38	QP
2	842.130	42.16	22.44	4.22	28.03	40.79	46.00	-5.21	QP
3	866.088	42.09	22.56	4.04	27.96	40.73	46.00	-5.27	QP
4	890.728	44.50	22.52	3.80	27.90	42.92	46.00	-3.08	QP
5	912.862	41.80	22.55	3.84	27.84	40.35	46.00	-5.65	QP
6	938.833	42.95	22.65	4.10	27.76	41.94	46.00	-4.06	QP

Remark:

3. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*

4. The emission levels of other frequencies are very lower than the limit and not show in test report.