

Report No: CCISE191210103V01

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 (E	EUT)
Product Name:	SMARTPHONE
Model No.:	V230L
Trade mark:	Vsmart
FCC ID:	2AVD3-V230LDS
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
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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Version 2

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

Tested by: AA

Test Engineer Winner Mang

Date: 01 Apr., 2020

Reviewed by:

Project Engineer

01 Apr., 2020

Date:

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Test Summary 4

Test Items	Section in CFR 47	Result	
Antenna requirement	15.203 & 15.247 (b)	Pass	
AC Power Line Conducted Emission	15.207	Pass	
Conducted Peak Output Power	15.247 (b)(3)	Pass	
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass	
Power Spectral Density	15.247 (e)	Pass	
Band Edge	15.247 (d)	Pass	
Spurious Emission	15.205 & 15.209	Pass	
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable.			

З. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method:

ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02



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
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.25 dBi
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.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.

5.3 Test environment and test mode

Operating Environment:

Operating Environment.	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) 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. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 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)

5.6 Additions to, deviations, or exclusions from the method

5.7 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: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.8 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

5.9 Test Instruments list

Radiated Emission:	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	١	/ersion: 6.110919	b	
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	
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A	
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0			

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 Antenna requirement:

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohib 15.247(b) (4) requirement: (4) The conducted output po antennas with directional ga section, if transmitting anten power from the intentional ra	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit n be replaced by the user, but the use of a standard antenna jack or bited. wer limit specified in paragraph (b) of this section is based on the use of ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this nas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), ion, as appropriate, by the amount in dB that the directional gain of the
E.U.T Antenna:	
The BLE antenna is an Intern antenna is 1.25 dBi.	al antenna which cannot replace by end-user, the best-case gain of the
	

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6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207	7	
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm		
Test procedure	 The E.U.T and simulators line impedance stabilizati 50ohm/50uH coupling implication The peripheral devices and LISN that provides a 50ol termination. (Please refer photographs). Both sides of A.C. line and interference. In order to fi positions of equipment and according to ANSI C63.10 	on network (L.I.S.N.), wh pedance for the measuring re also connected to the hm/50uH coupling imped to the block diagram of the checked for maximum and the maximum emission and all of the interface cab	nich provides a ng equipment. main power through a lance with 50ohm the test setup and conducted on, the relative les must be changed
Test setup:	Reference	Plane	
	LISN 40cm 40cm Equipment E.U.T Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Net Test table height=0.8m	EMI Receiver	– AC power
Test Instruments:	Refer to section 5.9 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		



Measurement Data:

roduct name:	S	MARTPH	SMARTPHONE		Pro	Product model:		V230L			
est by:	Y	′aro			Те	st mode:		BLE Tx mode			
est frequency:	1	50 kHz ~	30 MHz		Ph	hase:		Line			
est voltage:	A	AC 120 V/60 Hz		En	vironmen	t:	Temp: 22	.5℃ Hu	ıni: 55%		
80 Level 70 60 50 40 30 20 10 0 .15	w/w/w/w/	24		68 1 1	2	And so we wanted	12		- and the designed		
Trace: 15	2				uency (MH			10	20	30	
Trace: 15	Freq	Read	LISN	Freq	juency (MH		Limit Line	Over		30	
Trace: 15		Read	LISN	Freq	Cable	Z)	Limit	Over	Remark	30	

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.



oduct name:		SMARTI	PHONE		Pro	oduct mod	lel:	/230L			
st by:		Yaro			Те	st mode:	E	BLE Tx mode Neutral			
st frequency:		150 kHz	~ 30 MHz		Ph	ase:	1				
st voltage:		AC 120 V/60 Hz Environment:		t:	Гетр: 22.5	°C Huni: 55%					
80 Level 70 60 50 40 30		WWWWWWWWW	34 24 24 24 24 24 24 24	6 6		o Mary Muserson		FCC PAI	RT 15.207 QP RT 15.207 AV		
20 10 0.15 Trace: 13	2		.5	1 Fr	2 requency (M	Hz)	5	10	20 30		
10 0.15 Trace: 13	2 Freq	Read	LISN	Fr		Hz) Level	5 Limit Line	Over	20 30 Remark		
10 0.15 Trace: 13		Read	LISN	Fr	equency (M Cable		Limit	Over			

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.



6.3 Conducted Output Power

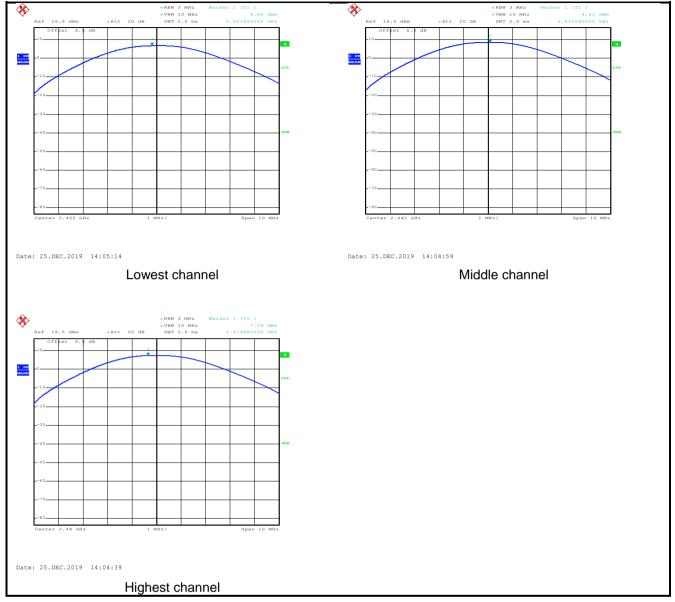
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Limit:	30dBm
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	6.86		
Middle	8.63	30.00	Pass
Highest	7.56		

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Test plot as follows:





6.4 Occupy Bandwidth

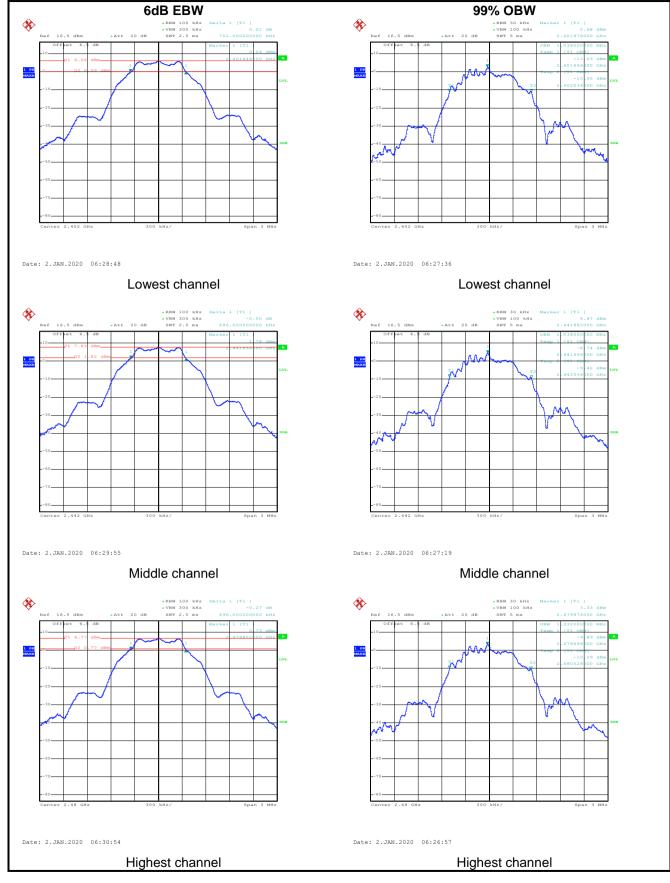
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Limit:	>500kHz
Test setup:	Spectrum Analyzer E-U-T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result
Lowest	0.702		
Middle	0.696	>500	Pass
Highest	0.696		
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result
Lowest	1.038		
Middle	1.038	N/A	N/A
Highest	1.032		

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Test plot as follows:





6.5 Power Spectral Density

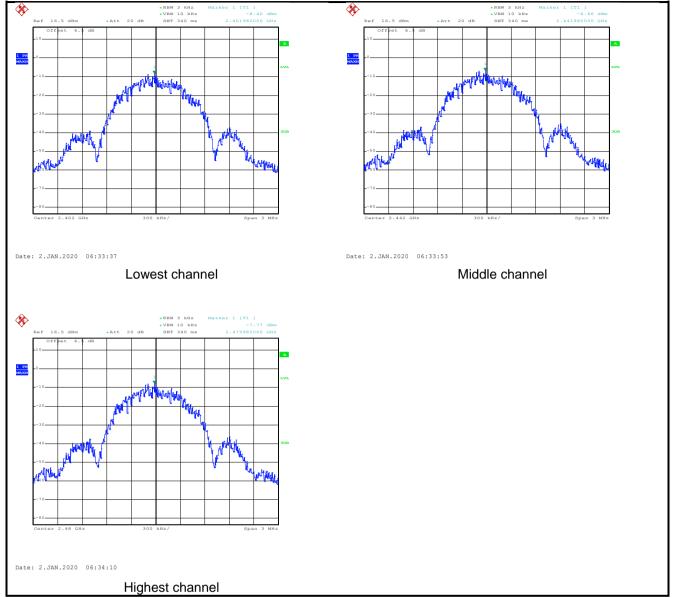
Test Requirement:	FCC Part 15 C Section 15.247 (e)
Limit:	8 dBm
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result
Lowest	-8.40		
Middle	-6.66	8.00	Pass
Highest	-7.77		



Test plots as follow:





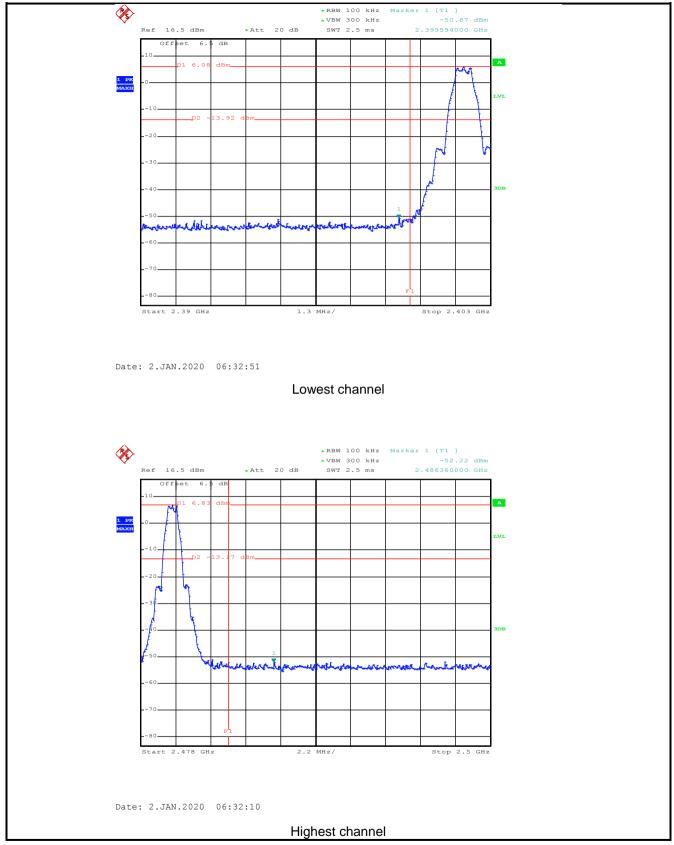
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



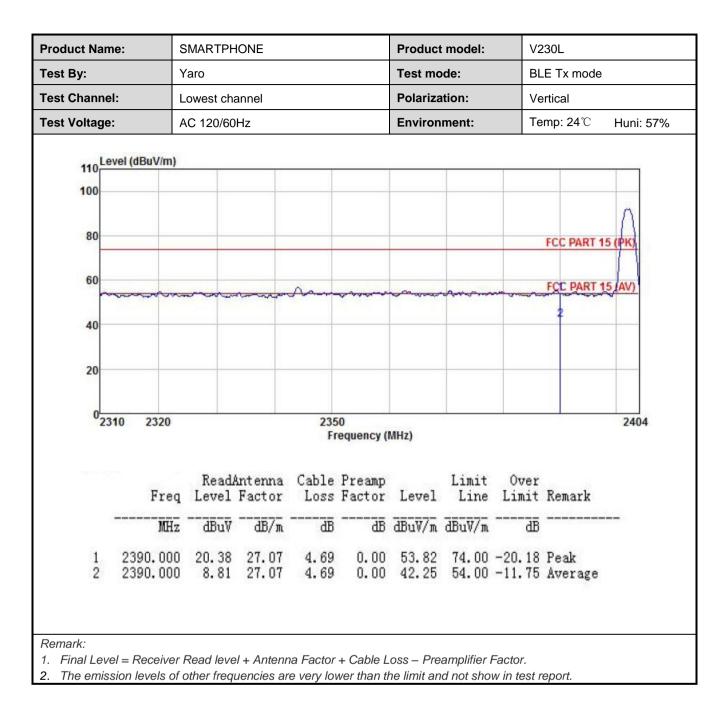
Test plots as follow:



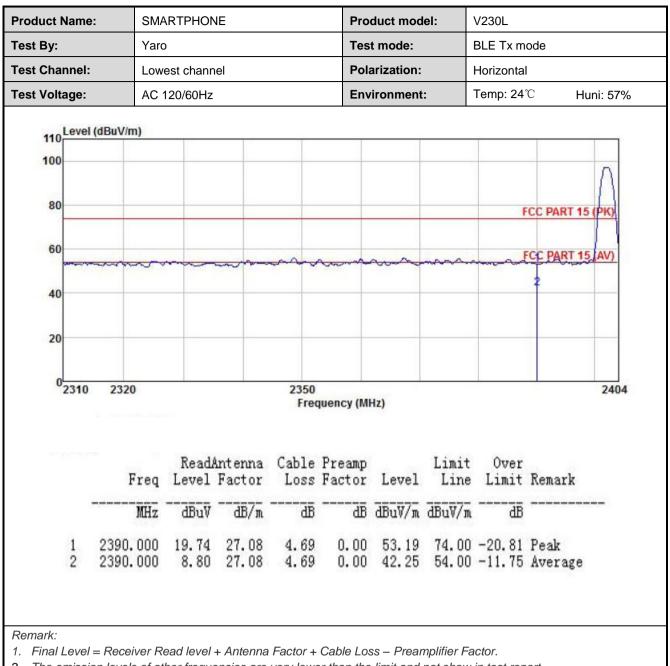
6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	C Section 15	5.205	5 and 15.209			
Test Frequency Range:	2.3GHz to 2.50	GHz					
Test Distance:	3m						
Receiver setup:	Frequency	Detector		RBW		/BW	Remark
	Above 1GHz	Peak		1MHz		MHz	Peak Value
	Eroquon	RMS	Lim	1MHz hit (dBuV/m @3		MHz	Average Value Remark
Limit:	Frequen			<u>іп (авиу/ті @3</u> 54.00	511)	Δ	verage Value
	Above 10	GHz –		74.00			Peak Value
Test Procedure:	 the groun to determ The EUT antenna, tower. The anter the groun Both horiz make the For each case and meters ar to find the The test-r Specified If the emist the limit s of the EU have 10 c 	d at a 3 met ine the posi- was set 3 m which was r ana height is d to determi- zontal and v measureme suspected e then the an- d the rota ta maximum ecceiver syst Bandwidth ssion level o pecified, the T would be B margin w	ter c tion tion neter mouth s var ine t ertice ent. emis tenr able reac tem with of the en te reporould	camber. The ta of the highest rs away from the nted on the top ried from one r the maximum v cal polarization assion, the EUT the was turned from bing. was set to Pea Maximum Hol e EUT in peak esting could be ported. Otherwis	ble wa radiat he into o of a neter /alue s of th was a o heig om 0 o ak De d Mode stopp se the one by	as rotat tion. erference variable to four of the fine anter arrange thats from degrees tect Fundes was 10 bed and emission y one us	e-height antenna meters above ield strength. nna are set to d to its worst n 1 meter to 4 s to 360 degrees nction and 0 dB lower than d the peak values ons that did not sing peak, quasi-
Test setup:		urntable)	iround Re	Horn Antenna Horn Antenna eference Plane	Antenna Te	ower	
Test Instruments:	Refer to section	on 5.9 for de	tails	6			
Test mode:	Refer to section	on 5.3 for de	tails	;			
Test results:	Passed						







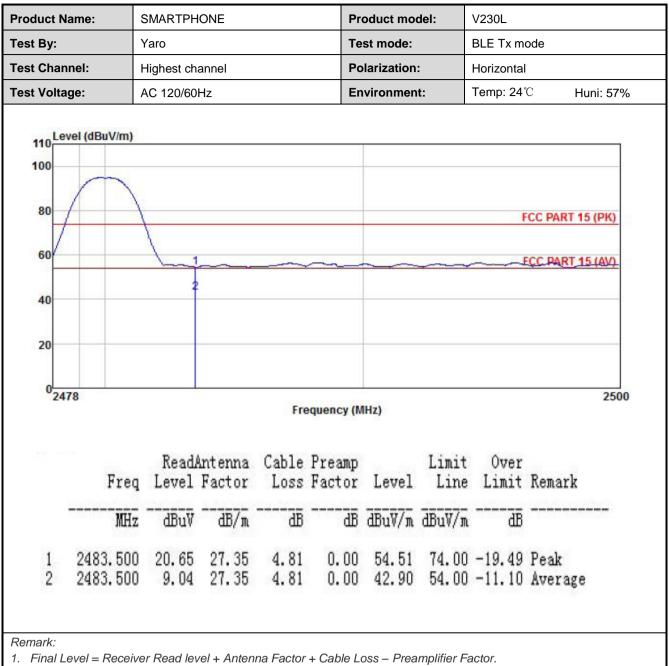






Product Name:	SMARTPHONE			Product	model:	V23	30L	
est By:	Yaro			Test mo	de:	BLE	E Tx mode	
est Channel:	Highest channel			Polariza	tion:	Ver	tical	
est Voltage:	AC 120/60Hz			Environ	ment:	Ten	np: 24 ℃	Huni: 57%
110 Level (dBuV/m) 100 80 60 40	2						FCC PART	
20								2500
		F	requency ((MHz)				2500
20 0 2478	ReadAntenna Level Factor	Cable	Preamp		Limit Line	Over Limit	Remark	2500
20 0 2478	Level Factor	Cable Loss	Preamp Factor		Line	Limit	Remark	2500







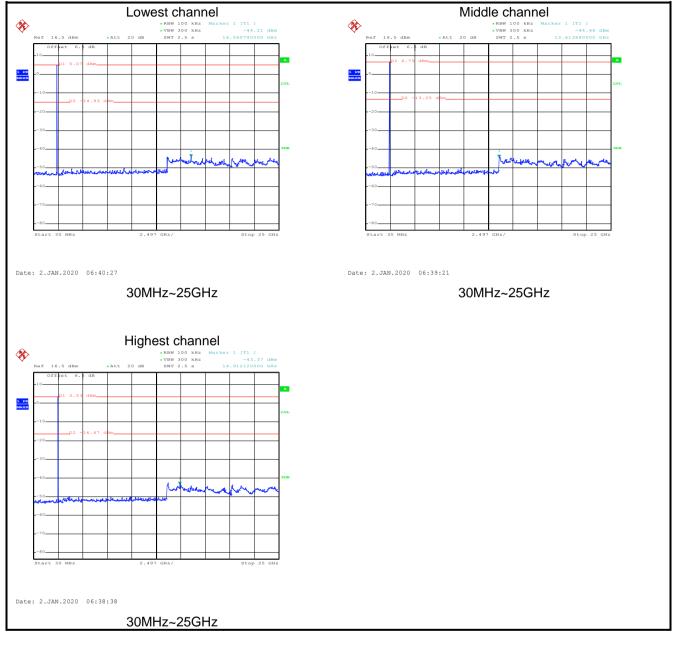
6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)							
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 5.9 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							

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Test plot as follows:





6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209								
Test Frequency Range:	9kHz to 25GHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector	r	RBW	VB	W	Remark		
	30MHz-1GHz	Quasi-pea	ak	120KHz	300	KHz	Quasi-peak Value		
		Peak 1MHz 3M		Hz Peak Value					
	Above 1GHz	RMS		1MHz	ЗM	Hz	Average Value		
Limit:	Frequency	/	Lim	nit (dBuV/m @	3m)	Remark			
	30MHz-88MHz		40.0			G	Quasi-peak Value		
	88MHz-216MHz		43.5			G	Quasi-peak Value		
	216MHz-960MHz		46.0			Quasi-peak Value			
	960MHz-1G	Hz	54.0			Quasi-peak Value			
	Above 1GF	17	54.0			Average Value			
Test Procedure:				74.0			Peak Value table 0.8m(below		
	 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB 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 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data 								
Test setup:	Below 1GHz	3m <	-			Antenna Search Antenn Test eiver –			

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Report No: CCISE191210103V01

	AE EUT Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver Antenna Test Receiver
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.

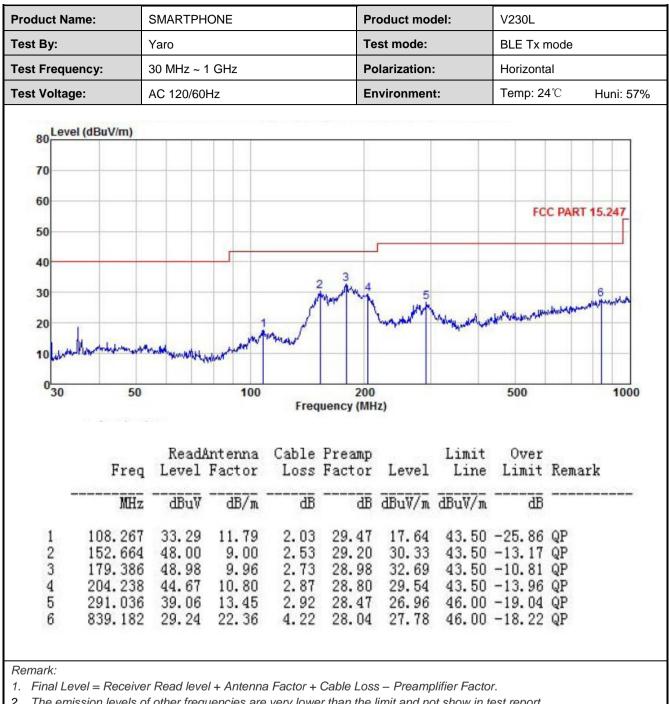


Measurement Data (worst case):

Below 1GHz:

roduct Name:	S	MARTPH	IONE		P	Product mo	odel:	V230L	V230L		
est By:	Y	aro			т	est mode:	:	BLE Tx mode			
est Frequency:	3	0 MHz ~ 1 GHz Polarization: Vertical		Polarization: Vertical			Vertical				
est Voltage:	А	AC 120/60Hz				Invironme	nt:	Temp:	Temp: 24°C Huni: 579		
80 Level (dBuV 70 60 50 40 30 20 10	1/m)	white	walnaka	2	3		5 Malauma Jaran	Fi	CC PART 15	5.247 6 ~ pto/W	
030	50		100		200 quency (M			500		1000	
F	req		Antenna Factor			Level	Limit Line	Over Limit	Remark		
	req MHz				Factor		Line		Remark		







Above 1GHz

			Test ch	annel: Lowe	est channel			
			De	tector: Peak	k Value			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	48.13	31.02	6.80	41.81	44.14	74.00	-29.86	Vertical
4804.00	47.92	31.02	6.80	41.81	43.93	74.00	-30.07	Horizontal
		1		ector: Avera	ge Value			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	38.23	31.02	6.80	41.81	34.24	54.00	-19.76	Vertical
4804.00	37.95	31.02	6.80	41.81	33.96	54.00	-20.04	Horizontal
				nannel: Mido				
	Deed	Antonno		tector: Peak	k value		Over	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	48.61	31.17	6.86	41.84	44.80	74.00	-29.20	Vertical
4882.00	47.23	31.17	6.86	41.84	43.42	74.00	-30.58	Horizontal
			Dete	ctor: Avera	ge Value			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	38.92	31.17	6.86	41.84	35.11	54.00	-18.89	Vertical
4882.00	37.41	31.17	6.86	41.84	33.60	54.00	-20.40	Horizontal
				annel: High tector: Peak				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	48.88	31.32	6.91	41.87	45.24	74.00	-28.76	Vertical
4960.00	47.91	31.32	6.91	41.87	44.27	74.00	-29.73	Horizontal
			Dete	ctor: Avera	ge Value			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	37.92	31.32	6.91	41.87	34.28	54.00	-19.72	Vertical
4960.00	37.16	31.32	6.91	41.87	33.52	54.00	-20.48	Horizontal
Remark: 1. Final Lev	vel = Receive	r Read level +	- Antenna Fa	ctor + Cable	Loss – Pream	nplifier Factor.		



8 EUT Constructional Details

Reference to the test report No.: CCISE191210101

-----End of report-----