RF TEST REPORT



Report No.: 18071053-FCC-R

Supersede Report No.: N/A				
Applicant	HVRT Corp.			
Product Name	Laser Rangefinder			
Model No.	HOVR 1.0	HOVR 1.0 2000 BT		
Serial No.	N/A	N/A		
Test Standard	FCC Part 1	5.247, ANSI C63.10: 2013		
Test Date	September	September 13 to 29, 2018		
Issue Date	September 30, 2018			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Aarron Licong		David Huang		
Aaron Liang		David Huang		
Test Engineer		Checked By		
This test report may be reproduced in full only				
Test result p	Test result presented in this test report is applicable to the tested sample only			

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108 Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



 Test Report No.
 18071053-FCC-R

 Page
 2 of 32

Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

-	
Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

Accreditations for Conformity Assessment



Test Report No.	18071053-FCC-R
Page	3 of 32

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 Test Report No.
 18071053-FCC-R

 Page
 4 of 32

CONTENTS

1.	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	6
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	7
5.	TEST SUMMARY	8
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	9
6.1	ANTENNA REQUIREMENT	9
6.2	DTS (6 DB) CHANNEL BANDWIDTH	10
6.3	MAXIMUM OUTPUT POWER	12
6.4	POWER SPECTRAL DENSITY	14
6.5	BAND-EDGE & UNWANTED EMISSIONS INTO RESTRICTED FREQUENCY BANDS	16
6.6	AC POWER LINE CONDUCTED EMISSIONS	19
6.7	RADIATED EMISSIONS & RESTRICTED BAND	21
ANN	NEX A. TEST INSTRUMENT	28
ANN	NEX B. TEST SETUP AND SUPPORTING EQUIPMENT	29
	NEX C. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST/ DECLARATION OF	32



Test Report No.	18071053-FCC-R
Page	5 of 32

1. Report Revision History

Report No.	Report Version	Description	Issue Date
18071053-FCC-R	NONE	Original	September 30, 2018

2. Customer information

Applicant Name	HVRT Corp.	
Applicant Add	336 Hazen Lane Orofino, ID 83544	
Manufacturer	HVRT Corp.	
Manufacturer Add	336 Hazen Lane Orofino, ID 83544	



Test Report No.	18071053-FCC-R
Page	6 of 32

3. Test site information

Test Lab A:

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China	
	518108	
FCC Test Site No.	535293	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	
Test Lab B:		
Lab performing tests	Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch Laboratories	
Lab Address	No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City,	
	Guangdong 523942, China	
FCC Test Site No.	749762	
IC Test Site No.	5936A-1	
Test Software	ADT_Radiated_V7.6.15.9.2	

Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.



Test Report No.	18071053-FCC-R
Page	7 of 32

4. Equipment under Test (EUT) Information

Description of EUT:	Laser Rangefinder
Main Model:	HOVR 1.0 2000 BT
Serial Model:	N/A
Date EUT received:	September 12, 2018
Test Date(s):	September 13 to 29, 2018
Equipment Category :	DTS
Antenna Gain:	BLE: 2dBi
Antenna Type:	PCB antenna
Type of Modulation:	BLE: GFSK
RF Operating Frequency (ies):	BLE: 2402-2480 MHz
Max. Output Power:	-9.26dBm
Number of Channels:	BLE: 40CH
Port:	Please refer to user' s manual
Trade Name :	HORUS
Input Power:	N/A
FCC ID:	2AQ86HOVR2000BT



Test Report No.	18071053-FCC-R
Page	8 of 32

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Restricted	Compliance
913.247(d)	Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions	N/A
§15.205, §15.209,	\$15.205, \$15.209, Radiated Emissions & Unwanted Emissions	
§15.247(d)	into Restricted Frequency Bands	Compliance

Measurement Uncertainty

Emissions				
Test Item	Description	Uncertainty		
Band-Edge & Unwanted				
Emissions into Restricted				
Frequency Bands and	Confidence level of approximately 95% (in the case			
Radiated Emissions &	where distributions are normal), with a coverage	+5.6dB/-4.5dB		
Unwanted Emissions	factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)			
into Restricted Frequency				
Bands				
-	-	-		



Test Report No.	18071053-FCC-R
Page	9 of 32

6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.

b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 1 antenna: A permanently attached PCB antenna for BLE, the gain is 2dBi for BLE.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



 Test Report No.
 18071053-FCC-R

 Page
 10 of 32

6.2 DTS (6 dB) Channel Bandwidth

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1022mbar
Test date :	September 28, 2018
Tested By :	Aaron Liang

Spec	Item	Requirement	Applicable		
§ 15.247(a)(2)	a)	6dB BW≥ 500kHz;	K		
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	>		
Test Setup		Spectrum Analyzer EUT			
	55807	4 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth			
	6dB E	mission bandwidth measurement procedure			
	-	Set RBW = 100 kHz.			
	- Set the video bandwidth (VBW) \geq 3 RBW.				
	- Detector = Peak.				
Test Procedure	- Trace mode = max hold.				
Test Procedure	- Sweep = auto couple.				
	- Allow the trace to stabilize.				
	Measure the maximum width of the emission that is constrained by the				
	frequencies associated with the two outermost amplitude points (upper and				
	lo	ower frequencies) that are attenuated by 6 dB relative to the m	naximum		
	level measured in the fundamental emission.				
Remark					
Result	Pa:	ss Fail			
Test Data		N/A			
Test Plot Yes (See below)					



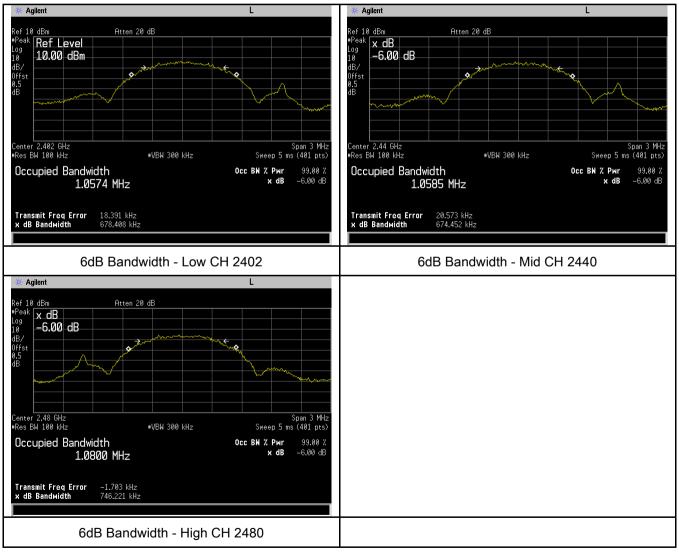
Test Report No.	18071053-FCC-R
Page	11 of 32

6dB Bandwidth measurement result

Test Data

СН	Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	678.408	1.0574
Mid	2440	674.452	1.0585
High	2480	746.221	1.0800

Test Plots





Test Report No.	18071053-FCC-R
Page	12 of 32

6.3 Maximum Output Power

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1022mbar
Test date :	September 28, 2018
Tested By :	Aaron Liang

Requirement(s):

Spec	Item	Requirement	Applicable		
	a)	FHSS in 2400-2483.5MHz with \geq 75 channels: \leq 1 Watt			
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt			
§15.247(b) (3),RSS210	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.			
(A8.4)	d)	FHSS in 902-928MHz with \geq 50 channels: \leq 1 Watt			
()	e)	FHSS in 902-928MHz with $\geq 25 \& <50$ channels: ≤ 0.25 Watt			
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	Z		
Test Setup	Spectrum Analyzer EUT				
Test Procedure	 558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method Maximum output power measurement procedure a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW 				
Remark					
Result	Pas	s Fail			



 Test Report No.
 18071053-FCC-R

 Page
 13 of 32

Test Data	✓ Yes
Test Plot	Yes (See below)

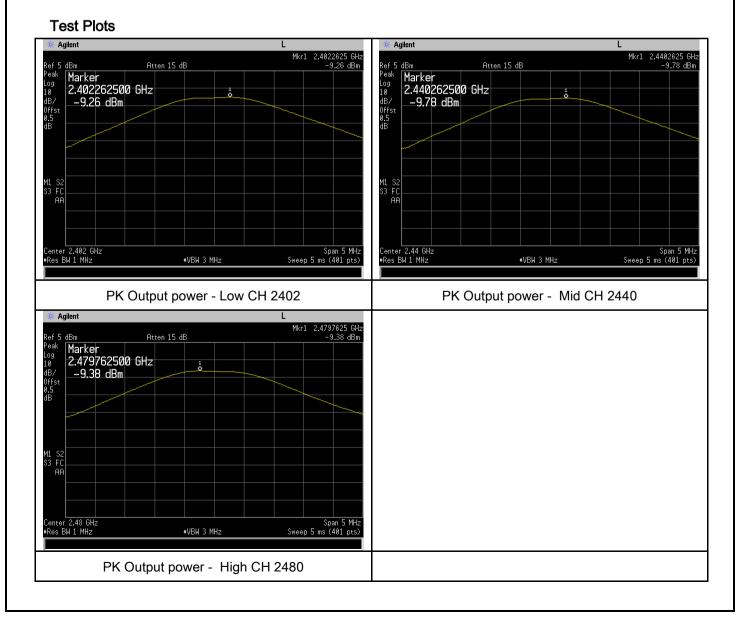
□ _{N/A}

□ _{N/A}

Output Power measurement result

Test Data

Туре	СН	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-9.26	30	Pass
Output	Mid	2440	-9.78	30	Pass
power	High	2480	-9.38	30	Pass





 Test Report No.
 18071053-FCC-R

 Page
 14 of 32

6.4 Power Spectral Density

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1022mbar
Test date :	September 28, 2018
Tested By :	Aaron Liang

Spec	Item	Requirement	Applicable
§15.247(e)	a) The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.		
Test Setup		Spectrum Analyzer	
Test Procedure		 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density measurement procedure a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz. d) Set the VBW ≥ 3 × RBW. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude the RBW. j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) 	de level within
Remark			
Result	Pas	ss Fail	
Test Data	Yes Yes (See	e below)	



Test Report No.	18071053-FCC-R
Page	15 of 32

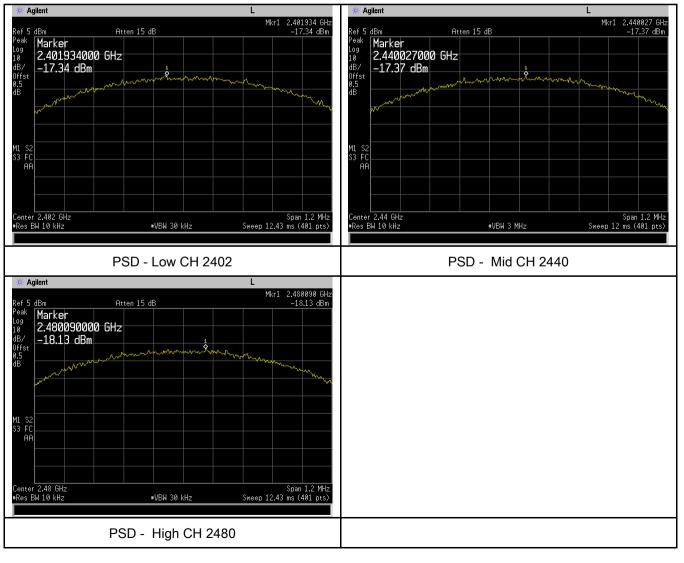
Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
	Low	2402	-17.34	-5.23	-22.57	8	Pass
PSD	Mid	2440	-17.37	-5.23	-22.60	8	Pass
	High	2480	-18.13	-5.23	-23.36	8	Pass

Note: factor=10log(3/10)=-5.23

Test Plots





 Test Report No.
 18071053-FCC-R

 Page
 16 of 32

6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	26°C
Relative Humidity	57%
Atmospheric Pressure	1025mbar
Test date :	September 25, 2018
Tested By :	Aaron Liang

Requirement(s):

Spec	Item	Item Requirement Applicable		
§15.247(d)	 In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB a) 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, provided the transmitter demonstrates compliance with the peak conducted power limits. 		V	
Test Setup	FUT& 3m Support Units 0.8/1.5m Ground Plane Test Receiver			
Test Procedure	 Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range. 			

MIC	Test Report No.	18071053-FCC-R			
iroup Company	Page	17 of 32			
2 Eirot oot	hoth DRW/ and V/RW/	of apactrum apalyzar to 100 kHz with a			
 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check 					
		-			
-					
		dection for reak measurement at nequency above			
	lution bandwidth of te	st receiver/spectrum analyzer is 1MHz and the			
		an account of Average measurement as below			
		e appearing on spectral display and set it as a			
		ith marking the highest point and edge frequency.			
		il all measured frequencies were complete.			
		······································			
🎽 Pass	Fail				
′es ′es (See below)	▼ N/A				
	 3. First, set convenient the emissio a. The reso analyzer is b. The reso bandwidth i 1GHz. c. The reso video bandwidth at frequenc 4. Measure reference le 5. Repeat a 	Page			

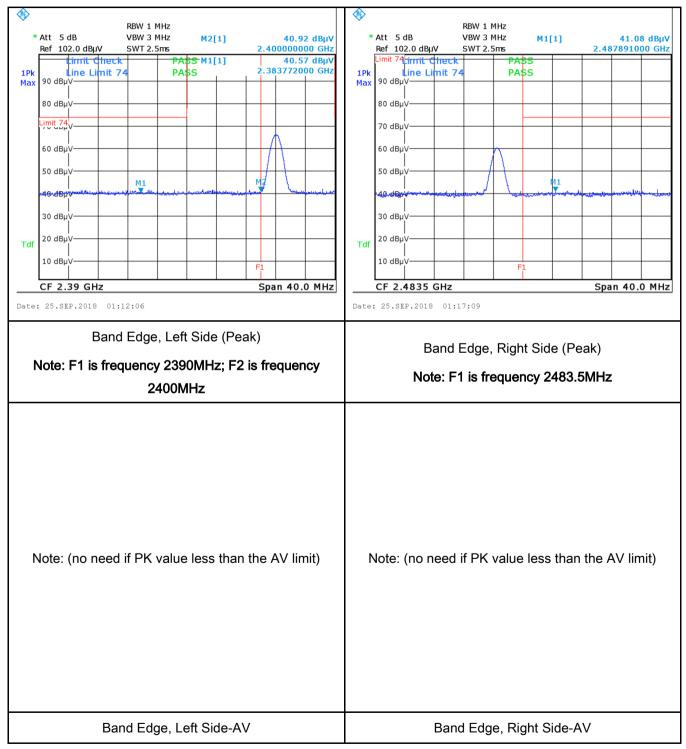


 Test Report No.
 18071053-FCC-R

 Page
 18 of 32

Test Plots

Band Edge measurement result



Note: Both Horizontal and vertical polarities were investigated.



6.6 AC Power Line Conducted Emissions

Temperature	
Relative Humidity	
Atmospheric Pressure	
Test date :	
Tested By :	

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, not exceed the limits in the following table, as measured using [mu] H/50 ohms line impedance stabilization network (LISN). Iower limit applies at the boundary between the frequencies ratio Frequency rangesFrequency rangesLimit (dBµV) (MHz)(MHz)QPAverage0.15 ~ 0.566 - 5656 - 460.5 ~ 556465 ~ 3060		, the radio frequency ower line on any 0 kHz to 30 MHz, shall measured using a 50 network (LISN). The ne frequencies ranges. dBµV) Average 56 – 46 46	
Test Setup		5 ~ 30 Vertical Ground Reference Plane UT 40cm UT 40cm UT 80cm Horizontal Ground Reference Plane Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm			
Procedure	 The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 				

S Î E A Bureau Verit	MIC as Group Company	Test Report No. Page	18071053-FCC-R 20 of 32
	 The EUT was switched A scan was made on to over the required frequing High peaks, relative to selected frequencies a setting of 10 kHz. 	d on and allowed the NEUTRAL lin uency range usin the limit line, Th and the necessa	owered separately from another main supply. d to warm up to its normal operating condition. ne (for AC mains) or Earth line (for DC power) ng an EMI test receiver. ne EMI test receiver was then tuned to the ry measurements made with a receiver bandwidth f line (for AC mains) or DC line (for DC power).
Remark	The EUT was powered by	battery	
Result	Pass Fa	ail	▼ N/A
Test Data	Yes Yes (See below) ✓	N/A N/A	



Test Report No.	18071053-FCC-R
Page	21 of 32

6.7 Radiated Emissions & Restricted Band

Temperature	26°C
Relative Humidity	57%
Atmospheric Pressure	1025mbar
Test date :	September 25, 2018
Tested By :	Aaron Liang

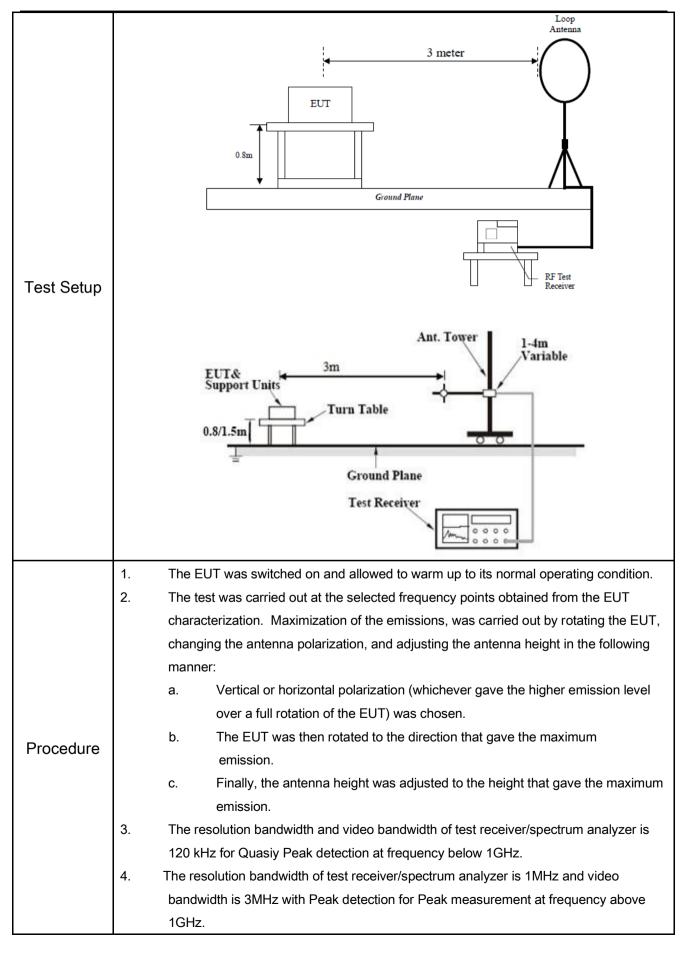
Requirement(s):

Spec	Item	Requirement	Requirement							
		Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spe the level of any unwanted emission the fundamental emission. The tigh edges	p-frequency devices shall not ecified in the following table and as shall not exceed the level of							
		Frequency range (MHz)	Field Strength (µV/m)							
	a)	0.009~0.490	2400/F(KHz)							
		0.490~1.705	24000/F(KHz)							
		1.705~30.0	30							
		30 - 88	100							
47CFR§15.		88 – 216	150							
247(d),		216 960	200							
RSS210		Above 960								
(A8.5)	b)	frequency band in which the spread modulated intentional radiator is op power that is produced by the inter 20 dB or 30dB below that in the 10 band that contains the highest leve determined by the measurement m used. Attenuation below the general is not required								
	c)	or restricted band, emission must a emission limits specified in 15.209								



 Test Report No.
 18071053-FCC-R

 Page
 22 of 32



3				
SĬĔ	M		Test Report No.	18071053-FCC-R
	itas Group Con		Page	23 of 32
		bandwidth is 1 frequency abo	10Hz with Peak detec ove 1GHz. 3 were repeated for tl	ceiver/spectrum analyzer is 1MHz and the video tion for Average Measurement as below at ne next frequency point, until all selected frequency
Remark				
Result	🗖 Pa	ISS	E Fail	
Test Data	Yes		N/A	
Test Plot	Yes (See below)	N/A	

Test Result:

Test Mode: Transmitting Mode	
------------------------------	--

Frequency range: 9KHz - 30MHz

Freq.	Detection	Factor	Reading	Result	Limit@3m	Margin
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
				-		>20
						>20

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

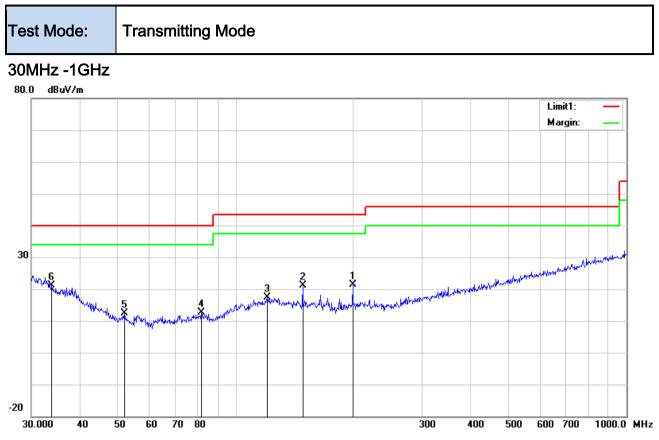
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



 Test Report No.
 18071053-FCC-R

 Page
 24 of 32



Test Data

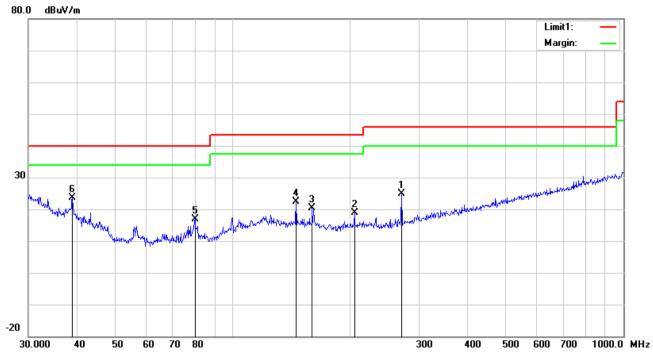
Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degre
											е
		(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	Н	199.2855	30.25	12.06	22.38	1.54	21.47	43.50	-22.03	100	110
2	Н	148.4410	29.51	12.60	22.35	1.33	21.09	43.50	-22.41	100	85
3	Н	120.6991	24.65	13.85	22.36	1.16	17.30	43.50	-26.20	100	199
4	Η	81.7833	26.38	7.67	22.40	1.06	12.71	40.00	-27.29	100	61
5	Н	52.0251	25.70	8.18	22.39	0.79	12.28	40.00	-27.72	100	36
6	Н	33.7986	24.12	18.48	22.26	0.73	21.07	40.00	-18.93	100	132



Test Report No.	18071053-FCC-R
Page	25 of 32

30MHz -1GHz



Test Data

Horizontal Polarity Plot @3m

Ν	P/	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degre
0.	L										е
		(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	V	270.3748	33.22	12.30	22.29	1.74	24.97	46.00	-21.03	100	309
2	V	204.9551	27.68	12.03	22.37	1.56	18.90	43.50	-24.60	100	153
3	V	159.7844	28.67	12.60	22.27	1.39	20.39	43.50	-23.11	100	263
4	V	145.3506	30.95	12.60	22.37	1.31	22.49	43.50	-21.01	100	44
5	V	80.0806	30.63	7.60	22.42	1.05	16.86	40.00	-23.14	100	259
6	V	38.8879	30.41	14.71	22.27	0.78	23.63	40.00	-16.37	100	185



 Test Report No.
 18071053-FCC-R

 Page
 26 of 32

Above 1GHz

Test Mode:

Transmitting Mode

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	39.49	AV	V	33.39	7.22	48.46	31.64	54	-22.36
4804	36.02	AV	н	33.39	7.22	48.46	28.17	54	-25.83
4804	57.32	PK	V	33.39	7.22	48.46	49.47	74	-24.53
4804	54.23	PK	н	33.39	7.22	48.46	46.38	74	-27.62
11876	27.9	AV	V	39.82	13.19	46.96	33.95	54	-20.05
11876	25.2	AV	Н	39.82	13.19	46.96	31.25	54	-22.75
11876	48.03	PK	V	39.82	13.19	46.96	54.08	74	-19.92
11876	43.4	PK	Н	39.82	13.19	46.96	49.45	74	-24.55

Low Channel (2402 MHz)

Middle Channel (2440 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4880	40.9	AV	V	33.62	7.53	48.36	33.69	54	-20.31
4880	37.24	AV	н	33.62	7.53	48.36	30.03	54	-23.97
4880	57.99	PK	V	33.62	7.53	48.36	50.78	74	-23.22
4880	59.97	PK	Н	33.62	7.53	48.36	52.76	74	-21.24
12432	25.58	AV	V	40.11	13.42	46.29	32.82	54	-21.18
12432	25.79	AV	Н	40.11	13.42	46.29	33.03	54	-20.97
12432	49.41	PK	V	40.11	13.42	46.29	56.65	74	-17.35
12432	41.96	PK	Н	40.11	13.42	46.29	49.2	74	-24.8



Test Report No.	18071053-FCC-R
Page	27 of 32

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	35.38	AV	V	33.89	7.86	48.31	28.82	54	-25.18
4960	40.78	AV	Н	33.89	7.86	48.31	34.22	54	-19.78
4960	57.7	PK	V	33.89	7.86	48.31	51.14	74	-22.86
4960	61.98	PK	Н	33.89	7.86	48.31	55.42	74	-18.58
17896	14.09	AV	V	43.33	18.72	44.03	32.11	54	-21.89
17896	17.55	AV	Н	43.33	18.72	44.03	35.57	54	-18.43
17896	36.19	PK	V	43.33	18.72	44.03	54.21	74	-19.79
17896	37.33	PK	Н	43.33	18.72	44.03	55.35	74	-18.65

High Channel (2480 MHz)

Note:

1, The testing has been conformed to 10*2480MHz=24,800MHz

2, All other emissions more than 30 dB below the limit

3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

4, The radiated spurious test above 18GHz is subcontracted to Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch Laboratories and found 30dB below the limit at least.



 Test Report No.
 18071053-FCC-R

 Page
 28 of 32

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/14/2018	09/13/2019	>
Line Impedance	LI-125A	191106	09/22/2018	09/21/2019	K
Line Impedance	LI-125A	191107	09/22/2018	09/21/2019	K
ISN	ISN T800	34373	09/22/2018	09/21/2019	
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/14/2018	09/13/2019	
Power Splitter	1#	1#	08/30/2017	08/29/2018	
DC Power Supply	E3640A	MY40004013	09/14/2018	09/13/2019	K
Radiated Emissions				-	
EMI test receiver	ESL6	100262	09/14/2018	09/13/2019	
Positioning Controller	UC3000	MF780208282	11/17/2017	11/16/2018	
OPT 010 AMPLIFIER	04475	0707400400	00/00/00/7	00/00/00 / 0	
(0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	
Microwave Preamplifier	8449B	3008A02402	03/21/2018	03/20/2019	2
(1~26.5GHz)	01100	0000, 102	00/21/2010	00/20/2010	
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	•
Active Antenna	AL-130	121031	10/12/2017	10/11/2018	
(9kHz-30MHz)	/ L 100	121001	10/12/2011	10/11/2010	
Bilog Antenna		A 4 4 0 7 4 0	00/40/0040	00/47/0040	
(30MHz~6GHz)	JB6	A110712	09/18/2018	09/17/2019	>
Double Ridge Horn					
Antenna (1 ~18GHz)	AH-118	71283	09/21/2018	09/20/2019	•
Universal Radio					
Communication Tester	CMU200	121393	09/22/2018	09/21/2019	>



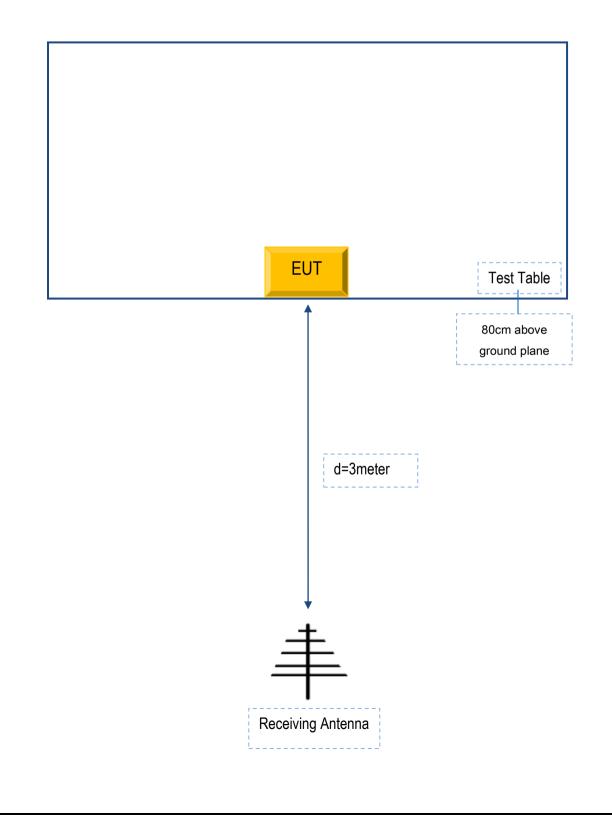
 Test Report No.
 18071053-FCC-R

 Page
 29 of 32

Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

Annex B.i. TEST SET UP BLOCK

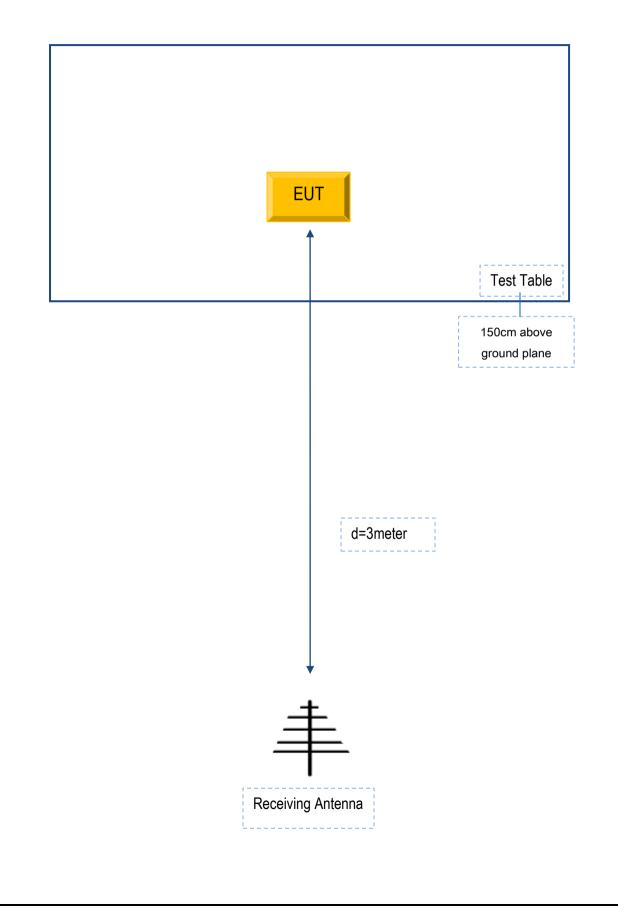
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





Test Report No.	18071053-FCC-R	
Page	30 of 32	

Block Configuration Diagram for Radiated Emissions (Above 1GHz).





Test Report No.	18071053-FCC-R
Page	31 of 32

Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
-	-	-	-
-	-	-	-

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
-	-	-	-	-



 Test Report No.
 18071053-FCC-R

 Page
 32 of 32

Annex C. User Manual / Block Diagram / Schematics / Partlist/ DECLARATION OF SIMILARITY

Please see the attachment