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TEST REPORT

FCC ID: VLJ-HUGO

Product: Hugo

Model No.: H100

Additional Model No.: N/A

Trade Mark: Hubble Hugo / Binatone Hugo

Report No.: FCC17111011A-2

Issued Date: March 13, 2018

Issued for:

Binatone Electronics International LTD.

Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong

Issued By:

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Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group Co., Ltd. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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1. GENERAL INFORMATION

ATTENDED ATTENDED ATTENDED AT
Hugo
H100
N/A
THE MILES AND
Binatone Electronics International LTD.
Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong
Binatone Electronics International LTD.
Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong
September 29, 2017
February 09, 2018 to March 09, 2018
FCC CFR Title 47 Part 15 Subpart C Section 15.247
THE MESTER WESTER

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Pu Shixi Tested By:

(Pu Shixi)

Date: 2018.03.13

Check By:

Qin Shuiquan

(Qin Shuiquan)

Approved By:

(Wang Fengbing)



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GENERAL DESCRIPTION OF EUT

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NERAL DESCRIPTI	ON OF EUT
Model No.	H100
Product	Hugo
Brand Name	Hubble Hugo / Binatone Hugo
Hardware version:	N/A
Software version:	N/A
Extreme Temp. Tolerance	-10℃ to +65℃
Battery information:	Li-Polymer Battery :TMB7254050 PLE1800 Voltage: 3.7V Capacity: 1800mAh Limited Charge Voltage: 4.2V
Adapter Information:	Adapter:HNC050300U Input: AC100~240V 50/60Hz 0.45A MAX Output: 5.0V3.0A
Operating Frequency	2402-2480MHz
Channels	40 W5CT W5CT
Channel Spacing	2MHz
Modulation Type	GFSK
Version	4.0 W5LT W5LT W5L
Antenna Type:	Integral Antenna
Antenna gain:	0dBi
Deviation	None W5
Condition of Test Sample	Normal

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1.1. FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group CO., LTD, 518108

FCC Registration Number: 366353

The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.10:2013. The sample tested as described in this report is in compliance with the FCC Rules Part15 Subpart C.

ALL the testing were referenced KDB NO.558074V04

The test results of this report relate only to the tested sample identified in this report

1.1.1. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA NVLAP (The certificate registration number is NVLAP LAB CODE:600142-0)

Japan VCCI (The certificate registration number is C-4790, R-3684, G-837)

Canada INDUSTRY CANADA

(The certificated registration number is 7700A-1)

China CNAS (The certificated registration number is L3732)

Copies of granted accreditation certificates are available for downloading from our web site,

http://www.wsct-cert.com

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2. TEST DESCRIPTION

2.1MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y $\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

				\ /
X	No.	Item	Uncertainty	X
WSE	1	Conducted Emission Test	±3.2dB	WSET
1	2	RF power,conducted	±0.16dB	
X	3	Spurious emissions,conducted	±0.21dB	X
	4	All emissions,radiated(<1G)	±4.7dB	ATTENDED TO
WSET	5	All emissions,radiated(>1G)	±4.7dB	WSET
\times	6	Temperature	±0.5°C	X
	7	Humidity	±2%	
WSE		WSET	WSET	WSET
		/		
WSLT	W5	LT WSLT	WSCT	WSLT
WSE		WSET	WSET	WSET
X			X	X
WSET	WS	CT W5CT	WSCT	WSE
	/			
X		X	X	X
WHI		WSET	WSET	WSTT
				1
X		< ×	X	X
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2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

w			4			
	Pretest Mode	Description				
4	Mode 1	CH00				
	Mode 2	CH19	K			
	Mode 3	CH39				
	Mode 4	W5CT Normal 5CT W5	Z			

For Conducted Emission				
Final Test Mode	Description			
Mode 4	Normal			

_		For Radiated Emission	7
	Final Test Mode	Description	
7	Mode 1	CH00	
3	Mode 2	CH19	
	Mode 3	CH39	

Note:

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- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Record the worst case of each test item in this report.
- (3)When we test it, the duty cycle ≥ 98%

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2.3 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters.

	Test software Version	X	N/A	\rightarrow	
1	/5/17 Frequency	2402 MHz	2440 MHz	2480 MHz	W
	Parameters(1Mbps)	DEF	DEF	DEF	

2.4CONFIGURATION OF SYSTEM UNDER TEST **AC Mains EUT** Adapter (EUT: Hugo) Certification

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2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note	
	1/	Adapter	/	HNC050300U		/	6
7	2	Earphone	574	N/A	Z117-1		

	2	Earphone		N/A			
				\sim			
WEFT	Note		WEITT	WSCT		WELLE	
	(1)	The support equipr	ment was authorized by	Declaration of Confi	rmation.		
	(2)	For detachable typ	e I/O cable should be s	pecified the length in	cm in Length	n』 column.	
	(3)	"YES" is means "sh	nielded" "with core"; "NO	D" is means "unshield	ded" "without co	ore".	\wedge
	house						-

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WEIG	$\langle \ \rangle$	$\langle \rangle$	$\langle \ \rangle$		
	WSET	WSET	WSET	WSLT	WSET
WSIG		$\langle \times$	$\langle \ \rangle$		THE STATE OF THE S
	WSET	WSGT	WSET	WSUT	WSET
WSIG	$\langle \ \rangle$	$\langle \rangle$			191
	X	X	X	X	X

WSET WSET WSET WSET

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3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

		FCC Part15 (15.247) , Subpart (
	Standard Section	Test Item	Judgment	Remark	
/	W5/15.203	Antenna Requirement	PASS V/		
	15.207	Conducted Emission	PASS	\times	
1	15.209, 15.205,	Spurious Emission	/5/PASS	W-515	7
	15.247(d)				
	15.247(a) (2)	6dB Bandwidth Testing	PASS	X	
_	15.247(b) (3)	MaximumPeak Output Power	PASS	TT .	
	15.247(d)	100 KHz Bandwidth of Frequency Band Edge	PASS	\times	/
	15.247(e) 5 <i>LT</i>	Maximum Conducted Power Spectral Density	PASS	WSE	7

NOTE:

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(1)" N/A" denotes test is not applicable in this test report.

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4. MEASUREMENT INSTRUMENTS

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NAME OF	MANUFACTURER	MODEL	SERIAL	Calibration	Calibration	4
EQUIPMENT	MANUFACTURER	MODEL	NUMBER	Date	Due.	4
EMI Test Receiver	R&S	ESCI	100005	08/19/2017	08/18/2018	
LISN	AFJ	LS16	16010222119	08/19/2017	08/18/2018	
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2017	08/18/2018	7
Universal Radio Communication Teste	r R&S	CMU 200	1100.0008.02	08/19/2017	08/18/2018	
Coaxial cable	Megalon	LMR400	N/A	08/12/2017	08/11/2018	4
GPIB cable	Megalon	GPIB	N/A	08/12/2017	08/11/2018	
Spectrum Analyzer	R&S	FSU	100114	08/19/2017	08/18/2018	
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2017	10/12/2018	
Pre-Amplifier	CDSI	PAP-1G18-38		10/13/2017	10/12/2018	
Bi-log Antenna	SUNOL Sciences	JB3	A021907	09/13/2017	09/12/2018	
9*6*6 Anechoic	WELT	W5L	7	08/21/2017	08/20/2018	5
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	-X	09/13/2017	09/12/2018	
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2017	08/22/2018	
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	04/25/2018	04/24/2018	
System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
Turn Table	ccs	N/A W/5/	N/A	N.C.R	N.C.R	
AntennaTower	ccs	N/A	N/A	N.C.R	N.C.R	
RF cable	Murata	MXHQ87WA3000		08/21/2017	08/20/2018	
Loop Antenna	T EMCO	6502	00042960	08/22/2017	08/21/2018	
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	08/19/2017	08/18/2018	
Power meter	Anritsu	ML2487A	6K00003613	08/23/2017	08/22/2018	
Power sensor	Anritsu	MX248XD	-	08/19/2017	08/18/2018	ľ
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5.§15.203 - ANTENNA REQUIREMENT Standard Applicable

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's antenna integrated on PCB, The antenna's gain is 0 dBi and meets the requirement.

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6.§15.207 - CONDUCTED EMISSIONS

Applicable Standard

The specification used was with the FCC Part 15.207 limits.

Test Procedure

During the conducted emission test, the EUT was connected to the outlet of the LISN. Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Result

PASS

Test Conditions

Temperature:	26°C
Relative Humidity:	60%
ATM Pressure:	100.0kPa
Voltage	120V/60Hz

Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.

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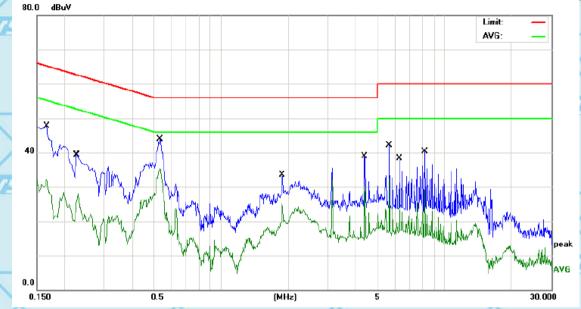






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Phase: L



L	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
Ī			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	×
	1		0.1660	37.33	10.44	47.77	65.15	-17.38	QP	
	2		0.1660	21.73	10.44	32.17	55.15	-22.98	AVG	57
<	3		0.2280	28.84	10.43	39.27	62.52	-23.25	QP	
	4		0.2300	17.63	10.43	28.06	52.45	-24.39	AVG	
4	5		0.5340	33.48	10.40	43.88	56.00	-12.12	QP	
	6	*	0.5340	24.95	10.40	35.35	46.00	-10.65	AVG	×
•	7		1.8820	14.89	10.30	25.19	46.00	-20.81	AVG	
	8		4.4020	28.60	10.24	38.84	56.00	-17.16	QP	57
K	9		4.4020	20.05	10.24	30.29	46.00	-15.71	AVG	
	10		5.6620	31.78	10.22	42.00	60.00	-18.00	QP	
L	11		6.2900	19.08	10.22	29.30	50.00	-20.70	AVG	
	12		8.1660	30.02	10.20	40.22	60.00	-19.78	QP	×

Remark: All of the Tx modes have been investigated, and only worst mode is presented in this report.

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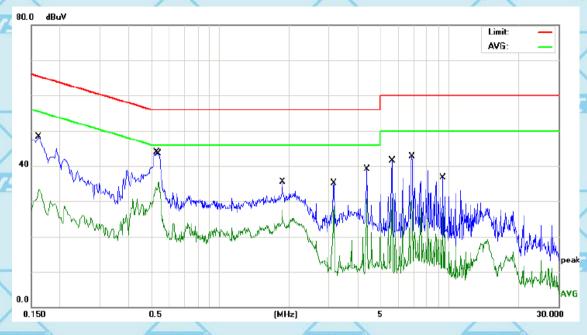






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Phase: N



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£	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
	1		0.1620	37.83	10.44	48.27	65.36	-17.09	QP	4
	2		0.1620	22.87	10.44	33.31	55.36	-22.05	AVG	
	3		0.5299	33.52	10.40	43.92	56.00	-12.08	QP	
~	4	*	0.5420	25.13	10.39	35.52	46.00	-10.48	AVG	1
	5		1.8740	25.25	10.30	35.55	56.00	-20.45	QP	(
	6		1.8740	17.25	10.30	27.55	46.00	-18.45	AVG	7
\	7		3.1420	18.34	10.27	28.61	46.00	-17.39	AVG	Ī
/	8		4.3980	28.83	10.24	39.07	56.00	-16.93	QP	
٧.	9		5.6579	20.74	10.22	30.96	50.00	-19.04	AVG	
	10		6.9100	32.56	10.21	42.77	60.00	-17.23	QP	,
	11		9.3979	16.43	10.19	26.62	50.00	-23.38	AVG	1
	12		9.4020	26.45	10.19	36.64	60.00	-23.36	QP	7

Remark: All of the Tx modeshave been investigated, and only worst mode is presented in this report.

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7.§15.209, §15.205,§15.247(d) - Spurious Emissions

Test Equipment

Please refer to section 4 this report.

Test Procedure

The out of band emission tests were performed in the 3-meter chamber test site, using the setupaccordance with the ANSI C63.4-2014. The specification used was the FCC Part Subpart C limits.

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested

And performed pretest to three orthogonal axis. The worst case emissions were reported

Environmental Conditions

4	Temperature:	26°C
	Relative Humidity:	55%
	ATM Pressure:	100.0kPa

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Radiated Test Setup

The system was investigated from 9 KHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range RBW Video B/W Detector

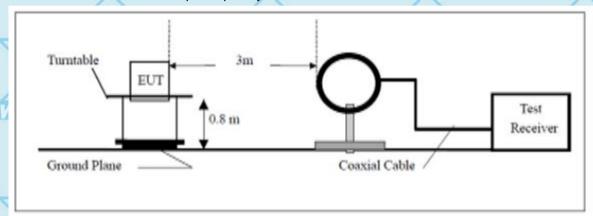
9KHz-30MHz 9kHz30 kHz QP

30 MHz – 1000 MHz 100 kHz 300 kHz QP

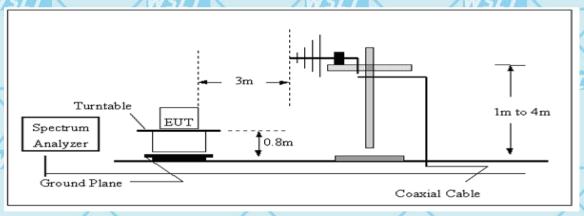
1000 MHz – 25 GHz 1 MHz 3 MHz PK

1000 MHz – 25 GHz 1 MHz 10 Hz Ave

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



74

WSET

WSET

WSET

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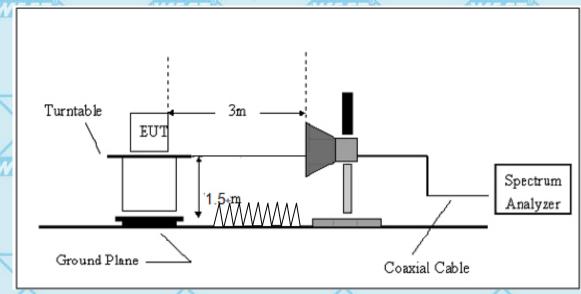






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(C) Radiated Emission Test-Up Frequency Above 1GHz



For the accrual test configuration, please refer to the related items-photos of Testing.

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Radiated Emission Limit

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Radiated Emission Test Result

Test Mode: Transmitting

	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
1	0.009-0.490	2400/F(kHz)	300
ď.	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30–88	100**	3
	88–216	150**	3
	216–960	200**	3
	Above 960	500	3

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

Test result:

From 9KHz to 30MHz

NOTE:9KHz-30MHz the measurements were greater than 20dB below the limit.

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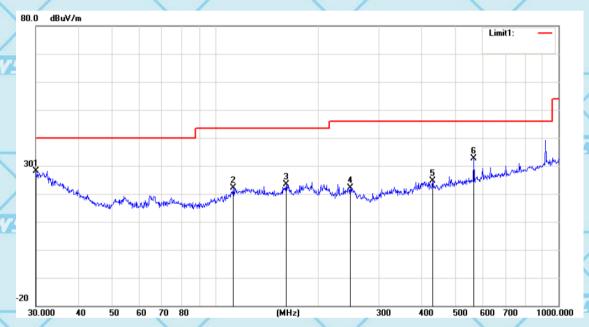
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Frequency from 30MHz to 1GHz

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Horizontal:

-									
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
(1	*	30.0000	24.60	3.49	28.09	40.00	-11.91	QP
	2		112.9196	25.18	-3.10	22.08	43.50	-21.42	QP
7	3		160.9089	27.85	-4.38	23.47	43.50	-20.03	QP
	4		247.6819	28.77	-6.52	22.25	46.00	-23.75	QP
	5		429.5228	27.04	-2.45	24.59	46.00	-21.41	QP
	6	,	566.6223	32.28	0.43	32.71	46.00	-13.29	QP
	,								F.



WSGT WSGT WSGT

Remark: All of the TX modeshave been investigated, and only worst mode is presented in this report.

WSET WSET WSET WSET

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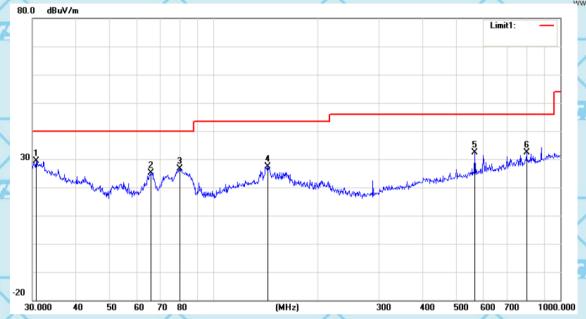






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Vertical:



7	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	*	30.7455	26.46	2.99	29.45	40.00	-10.55	QP
(2		66.0342	33.78	-8.59	25.19	40.00	-14.81	QP
	3		79.8003	34.27	-7.74	26.53	40.00	-13.47	QP
7	4	•	143.3261	30.78	-3.28	27.50	43.50	-16.00	QP
	5	į	566.6223	31.86	0.43	32.29	46.00	-13.71	QP
	6		798.9797	28.15	4.18	32.33	46.00	-13.67	QP

Remark: All of the TX modes have been investigated, and only worst mode is presented in this report.

WSET WSET WSET WSET WSET WSET

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From 1GHz to 25GHz:

Operation Mode:

Channel 0

Measured Distance: 3m

Frequency Range:

Above 1GHz

Temperature:

28℃

Test Result:

PASS

Humidity:

65 %

	Freq.	Ant.Pol. Emission L		evel(dBuV) Limit 3m(d		(dBuV/m) Ov		er(dB)	
4	(MHz)	H/\	PK	AV	PK	AV	PK	AV	
	4804	V	59.68	41.28	74	54	-14.32	-12.72	
	7206	V	58.89	39.17	74	54	-15.11	-14.83	
1	4804	Н /	58.39	40.47	75 74	54	17-15.61	-13.53	
	7206	Ŧ	58.36	39.36	74	54	-15.64	-14.64	

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note:

- (1) All Readings are Peak Value and AV.
- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

WSET WSET WSET WSET WSET WSET WSET WSET	AWSLI	AW3L/	WSLI		/ N	<i>-74</i>
WSET WSET WSET WSET WSET WSET		X	X	X	\times	WSET
WSET WSET WSET WSET WSET	X	X	X	\rightarrow		X
WSET WSET WSET		\times	\times	\times	\times	X
XXXX	X	\times	X	\rightarrow		X
Although)		\times	WSET	WSGT	WSET	WSGT

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28℃



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A74 A VA74

Channel 20

PASS

Measured Distance:

Frequency Range:

Test Result:

Operation Mode:

Above 1GHz

Temperature : Humidity :

midity: 65 %

	Freq.	Ant.Pol. Emission		Level(dBuV)	Limit 3m(it 3m(dBuV/m)		Over(dB)	
4	(MHz)	H/V	PK	AV	PK	AV	PK	AV	
	4880	V	58.34	40.53	74	54	-15.66	-13.47	
	7320	V	59.09	40.69	74	54	-14.91	-13.31	
	4880	H	59.32	39.02	747	54	-14.68	-14.98	
	7320	1	59.82	40.82	74	54	-14.18	-13.18	

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

WSLT	WSET	WSLT	W5CT	WSET	
WSE	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$			WSET	WSLT
WSLI	WSET	WSET	WSLT	WSET	
Wist	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$			WSET	WSGT
WSIET	WSCT	WSET	WSET	WSET	
ortification				WSET	WSGT

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Distance: 3m Please Contact with

28°C

Operation Mode:

Channel 39

Measured Distance:

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Frequency Range:

Test Result:

Above 1GHz

PASS

Temperature : Humidity :

65 %

	Freq.	Ant.Pol.	Emission I	Level(dBuV)	Limit 3m(dBuV/m)	Over(dB)		
	(MHz)	H/V	PK	AV	PK	AV	PK	AV	
_	4960	V5.V7	58.92	41.92	74	54	-15.08	-12.08	
	7440	V	59.81	39.11	74	54	-14.19	-14.89	
	4960	Ι	59.00	39.49	74	54	-15.00	-14.51	
1	7440	H	58.24	39.24	74	54	-15.76	-14.76	

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note:

Certification

(1) All Readings are Peak Value and AV.

SET WSE

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

WSET	WSET	WSCT	WSET	WSET
\rightarrow			\times	\times
WSI	W	W	527 W	SUT WSUT
WSET	WSET	WSET	WSET	WSET
			567 W	
WS	****	TET W		SET WSET

WSET WSET WSE

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8.§15.247(a) (2) - 6dB BANDWIDTH TESTING

Test Equipment

Please refer to Section 4 this report.

Test Procedure

- 1. Set EUT in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=100KHz,VBW≥RBW,Span=3MHz,Sweep=auto.
- 4. Mark the peak frequency and -6dB(upper and lower)frequency.
- 5. Repeat until all the rest channels are investigated.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Environmental Conditions

Temperature:	26°C
Relative Humidity:	55%
ATM Pressure:	100.0kPa

Applicable Standard

Report No.: FCC17111011A-2

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

WSLT	WSLT	WSET	WSET	WSE
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WSET	WSLT	WSET	WSET	WSG
X	\times			7.57
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Test Result: Pass.

Please refer to the following tables

	Channel Frequency (MHz)	Data Rate (Mbps)	6dB Bandwidth (kHz)	Limit (kHz)	Ref. Plot
à	2402	1/1/8	716.35	>500	PLOT1
	2440	1	721.15	>500	PLOT2
	2480	1	721.15	>500	PLOT3

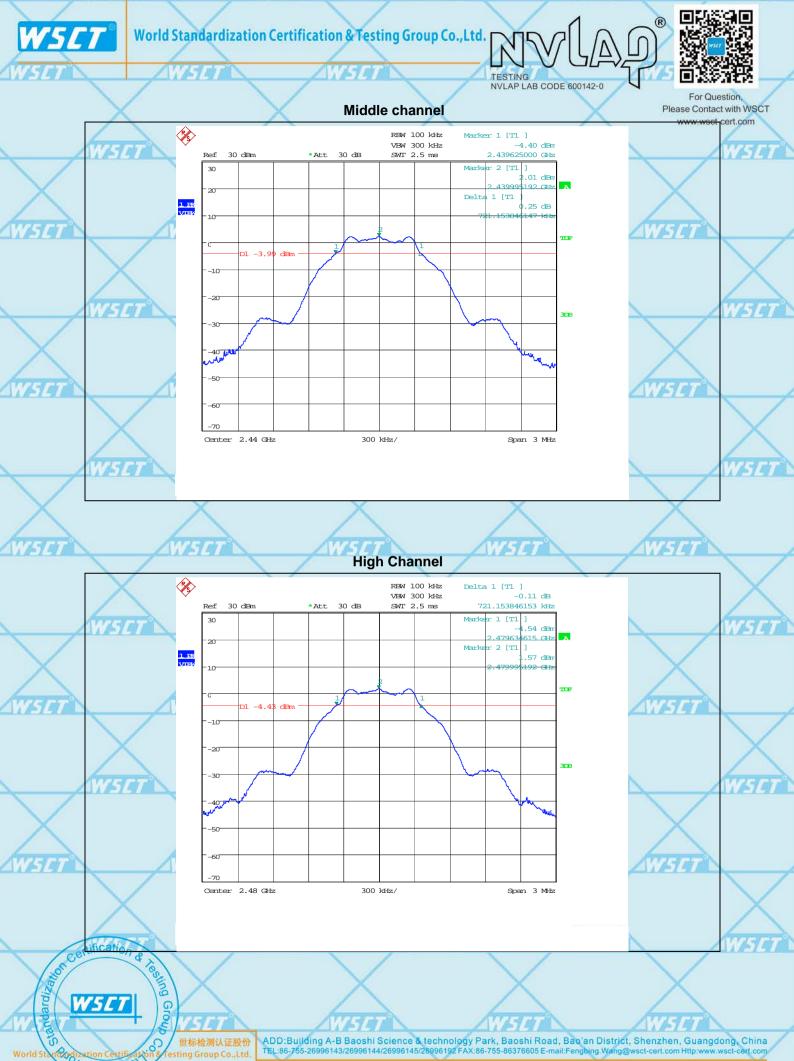
Low Channel





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9.§15.247(b) (3) - MAXIMUMPEAK OUTPUT POWER

Test Equipment

Please refer to Section 4 this report.

Test Procedure

- The EUT was directly connected to the spectrum analyzerand antenna output port as show in the block diagram below,
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set the RBW =1MHz, VBW ≥3RBW, span≥1.5*6dbbandwith.

Sweep time = auto couple, Detector = peak, Trace mode = max hold.

- 4. Record the maximum power from the spectrum analyzer.
- 5. The maximum peak power shall be less 1 Watt (30dBm).

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Environmental Conditions

Temperature:	26°C
Relative Humidity:	55%
ATM Pressure:	100.0kPa

Applicable Standard

According to §15.247(b) (3), for systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

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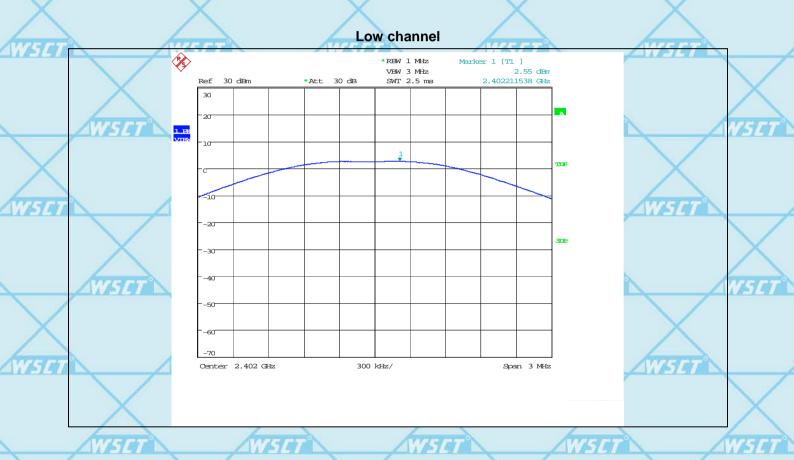




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Test Result

A1474	AWSTATA	_ZW5ET		
Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Power (dBm)	Limit (dBm)
Low	2402	1	2.55	30
Middle	2440	1	3.15	30
High	2480	White a	2.56	30



WSET WSET WSET WSET WSET WSET

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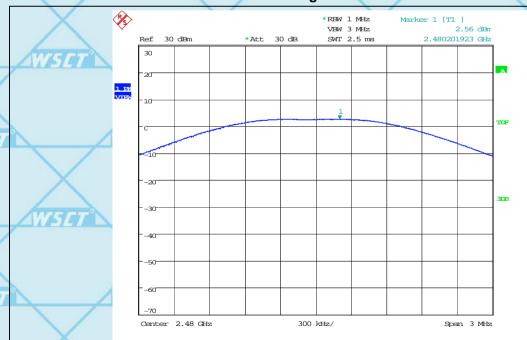


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Middle channel



High channel



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10.§15.247(d) - 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Test Equipment

Please refer to Section 4 this report.

Test Procedure

The out of band emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part Subpart C limits.

Environmental Conditions

Temperature:	26°C
Relative Humidity:	55%
ATM Pressure:	100.0kPa

Applicable Standard

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 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Result

PASS

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Radiated measurement:

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/	Indica	ted		T-1-1-	Ante	nna	Co	rrection F	actor	FCC	Part 15.2	47	WSET
	Frequency	Receiver	result	Table Angle	Height	Polar	Ant.	Cable	Pre-Amp.	Cord.	Limit	Margin	
	(MHz)	Reading	(PK/AV)	Degree	(m)		Factor	Loss	Gain	Amp.	(dBμV/m)	(dB)	
_	(=)	(dBμV/m)		3 - 1	()		(dB/m)	(dB)	(dB)	(dBμV/m)	(αΒμτ/)	(3.2)	
	X			X	Low C	Channe	1 (2402	MHz)	_	\times			X
	2390	41.23	AV	225	1.5	V	30.3	4.1	33.1	42.53	54	11.47	
/	2390	43.76	AV	90	2	H	30.3	4.1	33.1	45.06	54	8.94	WSET
	2390	62.32	PK	180	1.5	V	30.3	4.1	33.1	63.62	74	10.38	
	2390	63.78	PK	270	2	H	30.3	4.1	33.1	65.08	74	8.92	
T		ZVSG		_	High (Channe	el (2480	MHz)	WSET		111	744	
	2483.5	41.07	AV	360	1	V	31	4.4	32.7	43.77	54	10.23	\times
	2483.5	41.29	AV	90	2	Н	31	4.4	32.7	43.99	54	10.01	
/	2483.5	60.53	PK	180	1	V	31	4.4	32.7	63.23	74	10.77	NSET
	2483.5	60.63	PK	225	2	Æ	31	4.4	32.7	63.33	74	10.67	

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WISTT

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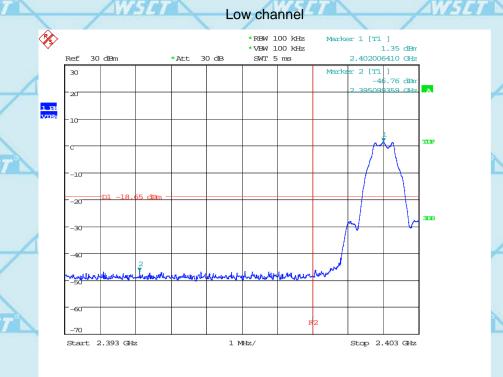




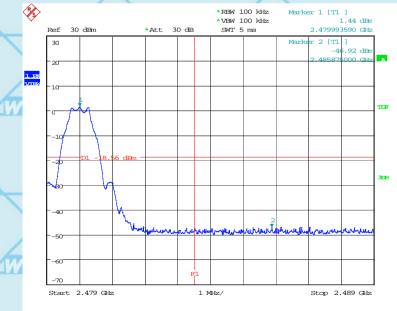


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Conducted Emission Measurement:



High channel



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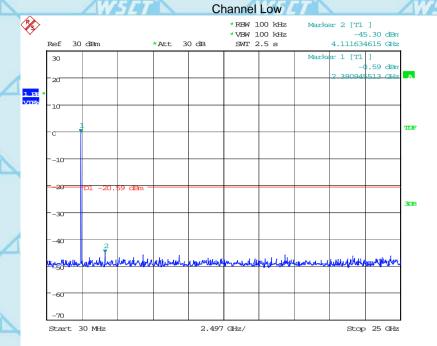


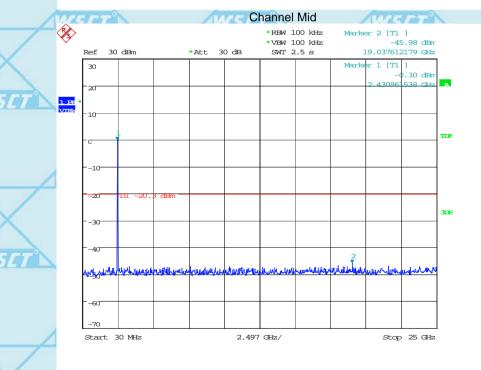




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Conducted spurious emissions

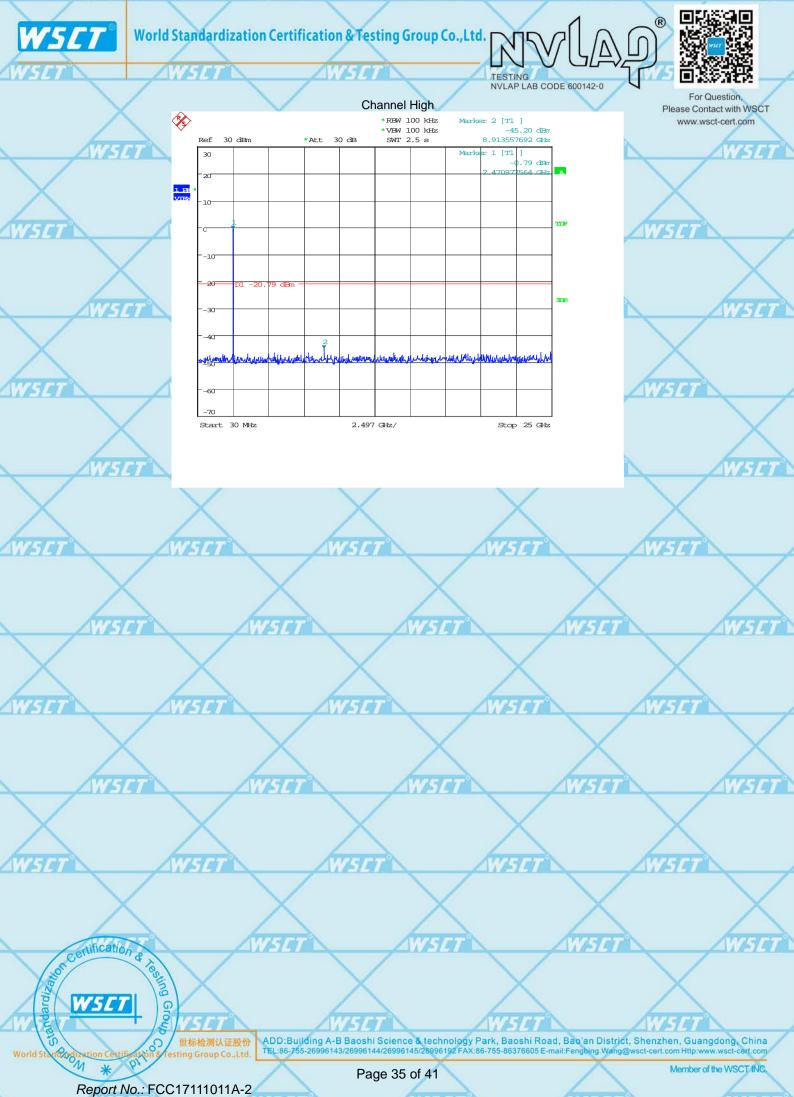




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11.§15.247(e)-MAXIMUM conducted Power Spectral Density

Test Equipment

Please refer to Section 4 this report.

Test Procedure

- 1, This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.
- 2, Set analyzer center frequency to DTS channel center frequency.
- 3, Set the RBW to:3 kHz ≦RBW ≦100 kHz, Set the VBW ≧3 RBW, Detector = peak. Sweep time = auto couple
- 4, Trace mode = max hold, Allow trace to fully stabilize.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Environmental Conditions

Temperature:	25°C
Relative Humidity:	55%
ATM Pressure:	100.0kPa

Applicable Standard

For digitally modulated systems, 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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

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TESTING
NVLAP LAB CODE 600142-0



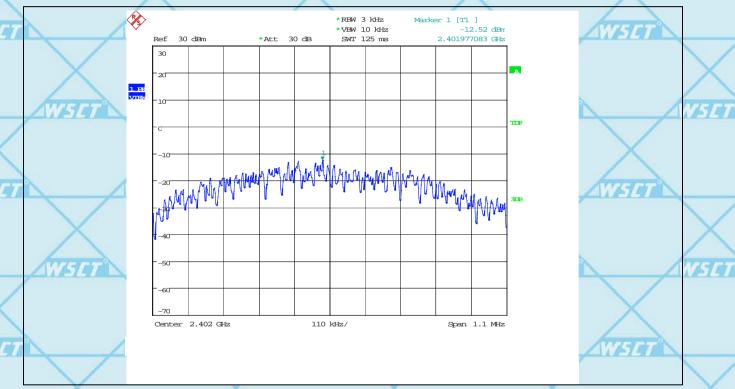
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Test Result

PASS

7	Channel Frequency (MHz)	Data Rate (Mbps)	PSD (dBm/3kHz)	Limit (dBm/3kHZ)	RESULT
	2402	1 /	-12.52	W 5 8	Compliant
	2440	1	-12.13	8	Compliant
	2480	X	-12.60	8	Compliant

Low Channel





W5C7

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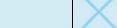




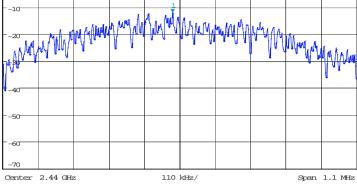


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PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST

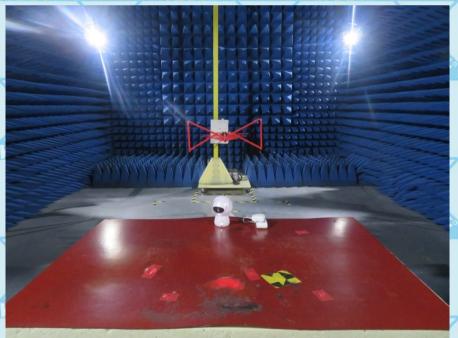


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WSET

RADIATED EMISSION TEST

(Frequency from 30MHz to 1GHz)



AWSET 1

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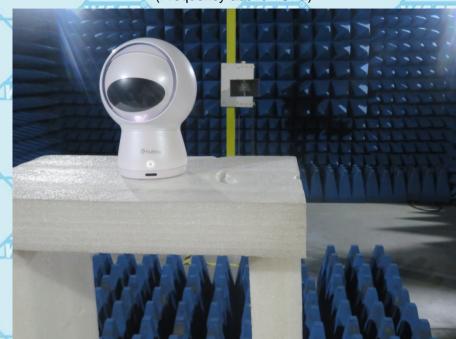
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RADIATED EMISSION TEST

(Frequency above 1GHz)



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PHOTOGRAPHS OF EUT

Refer to test report "H100 FCC1711011A BT".

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