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TEST REPORT

FCC ID: 2AIZN-X620B

Product: Mobile phone

Model No.: X620B

Additional Model No.: N/A

Trade Mark: Infinix

Report No.: FCC18070037A-BLE

Issued Date: July 27, 2018

Issued for:

INFINIX MOBILITY LIMITED

RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD

TST KLN HONG KONG

Issued By:

World Standardization Certification & Testing Group Co., Ltd.

Building A-B, Baoshi Science & Technology Park, Baoshi Road Ricalic

Bao'an District, Shenzhen, Guangdong, China

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FAX: +86-755-86376605

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 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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$\overline{}$	WSET	WSET	WSET	WSET	WSET
\mathbf{X}	\mathbf{X}	\sim			\times
WSET [®]	WSET	WSET	W.5		V5ET°
	X	X	X		
Cer	tification & Personal Property of the Personal	WSET	WSET	WSET	WSET
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1. GENERAL INFORMATION

Mobile phone
X620B
AL/A
N/A
INFINIX MOBILITY LIMITED
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
SHENZHEN TECNO TECHNOLOGY CO.,LTD.
1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C
July 16, 2018
July 16, 2018 to July 25, 2018
FCC CFR Title 47 Part 15 Subpart C Section 15.247

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.

Tested By:	Dushixi	Date: July 27, 2018	
	(Pu Shixi)		
			47514
Check By:	Qin Shuiguan	Date: July 27, 2018	of Certification & des
	(Qin Shuiquan)		WESTER G
	Manf Campbond	AVS # 1	
Approved By:	1,1	Date: July 27. 2018	SONO NO PINO
	(Wang Fengbing)		

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2. GENERAL DESCRIPTION OF EUT

	Z. GETTEI	MIL DESCRIPTION OF LOT
7	Equipment Type:	Mobile phone
	Test Model:	X620B
	Additional Model:	N/A WSET WSET
	Trade Mark	Infinix
	Applicant:	INFINIX MOBILITY LIMITED
/	Address:	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
	Manufacturer:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
	Address:	1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C
	Hardware version:	V2.1
	Software version:	X620B-Q6361A-O-180702V06 W5CT
/	Extreme Temp. Tolerance:	-10°C to +65°C
	Battery information:	Li-Polymer Battery: BL-35BX Voltage: 3.85V Capacity: 3550mAh/3650mAh(min/typ) Limited Charge Voltage: 4.4V
	Adapter Information:	Adapter: CQ-18VX Input: AC 100-240V 50/60Hz 0.5A Output: DC 5.0V-3.0A/ 9.0V-2.0A/ 12.0V-1.5A
	Operating Frequency:	2402-2480MHz
	Channels:	40 CT WSCT WSCT WSCT
	Channel Spacing:	2MHz
	Modulation Type:	GFSK WELT'S WELT'S
/	Antenna Type:	Integral Antenna
	Antenna gain:	0.5dBi
1		

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3. 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

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

Registration Number: 366353

3.1. 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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TEST DESCRIPTION

3.2.1. MEASUREMENT 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

	imately 95		a coverage factor of	it 2 providing a rever or	comidence	
WSCT	- 177		WSET	WSET	WSET	
	No.	Item		Uncertainty		
X	1	Conducted Em		±3.2dB		X
NUCL.	2	RF power,cond		±0.16dB		Wides
WSL	3		sions, conducted	±0.21dB		WELL
\times	4	All emissions,	X	±4.7dB	- X	
	5	All emissions,		±4.7dB		
AWSET*	6	Temperature	WSCT	±0.5°CV5/7°	W5ET	
	7	Humidity		±2%	1	
				\setminus		
W50	7	W5E	7° W5	ET WSET		WSET"
X		X	X	X		
WSET	W	367	WSET	W5CT°	WSET	
X		X		X		X
Average		Avee	- Aver	Avec e		Week
WSL		W5C	V [*] W5	ET [®] WSE		WSLI
\times		X	\times	\times	\times	
WSET	W	SET [®]	W5ET*	WSET	WSET	
				\setminus		
W5L	7	W5E	7° WS	CT WSC1		WSET
		X				
WSET	W	SET	WSET	WSET	WSET	
X		X		X		X
A TUE		Average		August 1		MILE
Certification WSET	\$ 2	W5E		ET° WSE		AWSET
in the state of th	GSTI.	X	X	X	X	
WSCT	G					

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3.2.2. 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.

	WSCT	W5/T° W5/T° W
	Pretest Mode	Description
<	Mode 1	CH00
	Mode 2	CH20
_	Mode 3	W5_CH39
	Mode 4	Normal

For Conducted Emission				
Final Test Mode	Description	ľ		
Mode 4	Normal			

	For Radiated Emission
Final Test Mode	Description
Mode 1	CH00
Mode 2	CH20
Mode 3	CH39

Note:

- (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 $\geq 98\%$

MACCE

NSET

WSET

WSFT

WSFT

1W5/1

W5C

VSCT WSC

WSET

WSFI

WSET

3.2.3. 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

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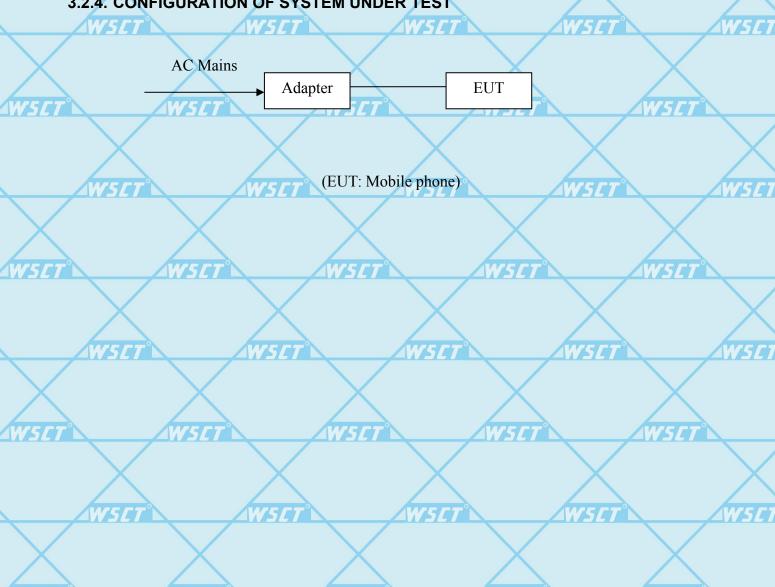




is for the setting of RF output power expected by the customer and is going to be fixed on the For Question, is for the setting of RF output power expected by the customer and is going to be fixed on the For Question, is for the setting of RF output power expected by the customer and is going to be fixed on the For Question. firmware of the final end product power parameters. www.wsct-cert.com

Test software Version	N/A	WSLI	AWSLI
	1		
Frequency	2402 MHz	2440 MHz	2480 MHz
Parameters(1Mbps)	DEF	DEF	DEF

3.2.4. CONFIGURATION OF SYSTEM UNDER TEST



3.3. 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.







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	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note	vsct-cert.com	
	114	57°Adapter	NSET°	V 5 CQ-18VX	WSET [®]	1	WSET [®]	
	2	Earphone	1	N/A	1	1		

	2	Earphone		N/A			
WSET	Not	e: W5CT °	W5ET	WSE		WSET	
	(1)	The support equipme	ent was authorized by Dec	claration of Confirmation	on.		
	(2)		I/O cable should be specif				X
	(3)	"YES" is means "shi	elded" "with core"; "NO	" is means "unshielded"	"without core"		
	W	SET	WSET	WSET [®]	WSET*		WSET
X		X	X	X		X	
				Average Averag			
<u> WSET</u>		WSET	W5ET [®]	WSE		<u> AWSET</u>	
	111	SET	WSCT	WSCT	WSCT		WSIT
X		X	X	X		X	
AWSET.		WSET	W5ET [®]	WSE		AWSET"	
		X	X	X	X		X
	4						
		SET [®]	W5ET*	WSET	WSET [®]		WSET.
WSET		WSET	WSET	WSE		WSET	
		11361		11111			
		\times	\times	\times	\times		\times
	И	SET .	WSET"	WSET	W5ET [®]		WSET
X		X	X	X		X	
AW5ET		WSET	WSET	WSE		AWSET	
		X	X	X	X		X

KET WSCI

WSET N

AWSET"

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3.4. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

_	WSCT	WSIT	W	5/7°	WSCT		
\times	FCC Part15 (15.247) , Subpart C						
WSET	Standard Section	Test Item	Judgment	Remark	7		
	15.203	Antenna Requirement	PASS				
	15.207	Conducted Emission	PASS		Average and the second		
	15.209, 15.205, 15.247(d)	Spurious Emission	PASS	74	WSLI		
X	15.247(a) (2)	6dB Bandwidth Testing	PASS	X			
WSET	15.247(b) (3) 5 7 7	Maximum Peak Output Power	V 5 PASS	W5	7°		
	15.247(d)	100 KHz Bandwidth of Frequency Band Edge	PASS	X	\times		
	15.247(e)	Maximum Conducted Power Spectral Density	PASS	SET°	WSET		

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NOTE:

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

WSET WSET WSET WSET

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4. MEASUREMENT INSTRUMENTS

	4. MEASUN			9			1
/	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration n Due.	K
	EMI Test Receiver	R&S	ESCI	100005	08/19/2017	08/18/2018	
	LISN	AFJ	LS16	16010222119	08/19/2017	08/18/2018	
M	LISN(EUT)	Mestec	AN3016	04/10040	08/19/2017	08/18/2018	\
	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	08/19/2017	08/18/2018	
	Coaxial cable	Megalon	LMR400 / 5	N/A	08/12/2017	08/11/2018	C
/	GPIB cable	Megalon	GPIB	N/A	08/12/2017	08/11/2018	
	Spectrum Analyzer	R&S	FSU	100114	08/19/2017	08/18/2018	
7	Pre Amplifier 75	H.P.	НР8447Е	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	WSET	- W5		08/21/2017	08/20/2018	C
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	/	09/13/2017	09/12/2018	
\	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2017	08/22/2018	
7	Cable W5	TIME MICROWAVE	/ 5 LMR-400	N-TYPE04	04/25/2018	04/24/2019	_
	System-Controller	CCS	N/A	N/A	N.C.R	N.C.R	
	Turn Table	CCS	N/A	N/A	N.C.R	N.C.R	,
	Antenna Tower	CCS	N/A W 5	N/A	N.C.R	N.C.R	
	RF cable	Murata	MXHQ87WA3000	-\/	08/21/2017	08/20/2018	
	Loop Antenna	ЕМСО	6502	00042960	08/22/2017	08/21/2018	
7	Horn Antenna 15	SCHWARZBECK	BBHA 9170	1123 5<i>ET</i>	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	1

WSET WSET WSET WSET

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5. ANTENNA REQUIREMENT

5.1. 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.

5.2. Antenna Connector Construction

The EUT's antenna Integral Antenna, The antenna's gain is 0.5dBi and meets the requirement.

Wi-Fi/BT/GPS Antenna

Wi-Fi/BT/GPS Antenna

Wi-Fi/BT/GPS Antenna

Wi-Fi/BT/GPS Antenna

Wi-Fi/BT/GPS Antenna

Wi-Fi/BT/GPS Antenna

Indiana Antenna

Indiana Antenna

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Indiana

I

Main RF Antenna

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Diversity RF Antenna







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6. CONDUCTED EMISSIONS

6.1.1. Applicable Standard

The specification used was with the FCC Part 15.207 limits.

6.1.2. 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.

6.1.3. Test Conditions

1	Temperature:	26 °C			
	Relative Humidity:	60%			
	ATM Pressure:	100.0kPa			
0	Voltage	120V/60Hz	WEET	VECT	WELT

1					
	X	X	X	X	X

/			
		A CONTRACTOR OF THE CONTRACTOR	

WSIT	WSIT	WSCT	WSIT	WSIT

W5CT [°]	W5CT°	WELT"	W5CT [°]	WEET

WSET WSET WSET WSET					
	WSET"	W5CT°	W5ET*	W5CT°	W5ET*

WSET WSET WSET WSET

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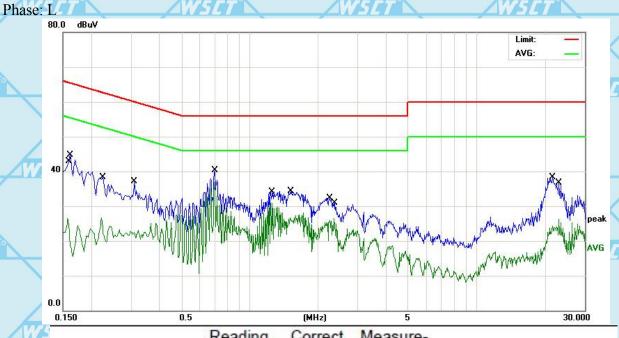






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6.1.4. TEST RESULTS



Ł	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-			MHz	dBu∀	dB	dBu∀	dBuV	dB	Detector	
-	1		0.1580	16.04	10.44	26.48	55.56	-29.08	AVG	7
	2		0.1620	31.14	10.44	41.58	65.36	-23.78	QP	
	3		0.2220	16.17	10.43	26.60	52.74	-26.14	AVG	
<u>75</u>	4		0.3100	25.07	10.42	35.49	59.97	-24.48	QP	
	5	*	0.6980	26.45	10.38	36.83	46.00	-9.17	AVG	
-	6		0.7019	28.09	10.38	38.47	56.00	-17.53	QP	
-	7		1.2620	20.52	10.33	30.85	46.00	-15.15	AVG	7
_	8		1.5180	22.95	10.31	33.26	56.00	-22.74	QP	
-	9		2.2500	20.56	10.28	30.84	56.00	-25.16	QP	
75	10		2.3580	16.15	10.28	26.43	46.00	-19.57	AVG	
-	11		21.6180	26.14	10.11	36.25	60.00	-23.75	QP	
-	12		23.0900	16.22	10.11	26.33	50.00	-23.67	AVG	

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

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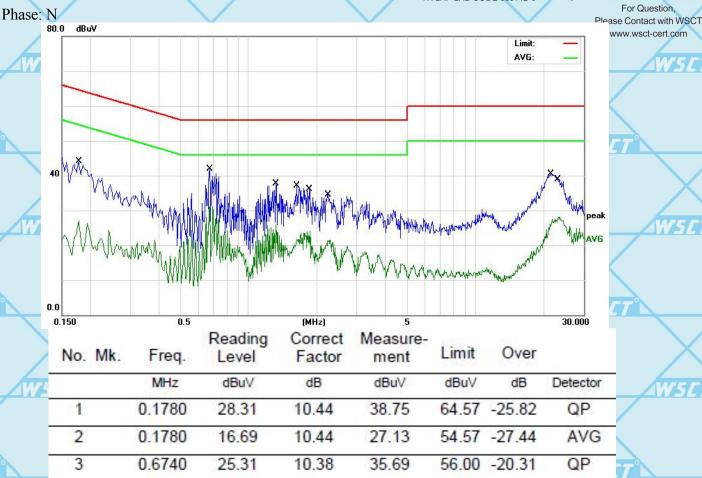
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	1	0.1780	28.31	10.44	38.75	64.57	-25.82	QP	_
Ī	2	0.1780	16.69	10.44	27.13	54.57	-27.44	AVG	-
-	3	0.6740	25.31	10.38	35.69	56.00	-20.31	QP	
	4 *	0.6740	20.94	10.38	31.32	46.00	-14.68	AVG	
	5	1.3220	25.17	10.32	35.49	56.00	-20.51	QP	-
<u>Z</u>	6	1.3220	15.63	10.32	25.95	46.00	-20.05	AVG	
Ī	7	1.6340	24.27	10.31	34.58	56.00	-21.42	QP	-
	8	1.8620	13.77	10.30	24.07	46.00	-21.93	AVG	-
	9	2.2460	24.26	10.28	34.54	56.00	-21.46	QP	7
	10	2.2700	11.31	10.28	21.59	46.00	-24.41	AVG	-
/	11	21.3980	25.69	10.11	35.80	60.00	-24.20	QP	-
<u>/</u> _	12	23.2660	17.95	10.11	28.06	50.00	-21.94	AVG	_
-									-

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

WSET WSET WSET WSET

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7. SPURIOUS EMISSIONS

7.1.1. Test Equipment W55

Please refer to section 4 this report.

7.1.2. 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.

- 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 Quasi Peak 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

7.1.3. Environmental Conditions

Temperature:	26 °C	
Relative Humidity:	55%	WELT
ATM Pressure:	100.0kPa	17-14

WSET WSET WSET WSET WSET

YSET WSET WSET WSET

WSET WSET WSET

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7.1.4. Radiated Test Setup

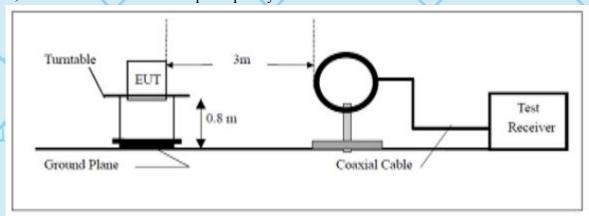
The system was investigated from 9 KHz to 25 GHz.

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

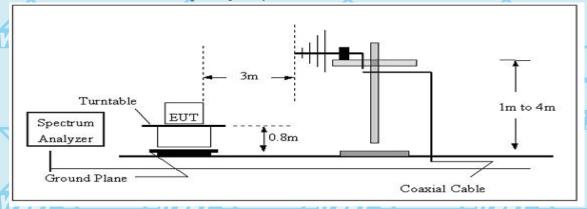
the following configurations:

	Frequency Range	RBW	Video B/W	Detector	
7	9KHz-30MHz V5 57	9kHz W5	30 kHz	V5 L QP	WSET
	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	

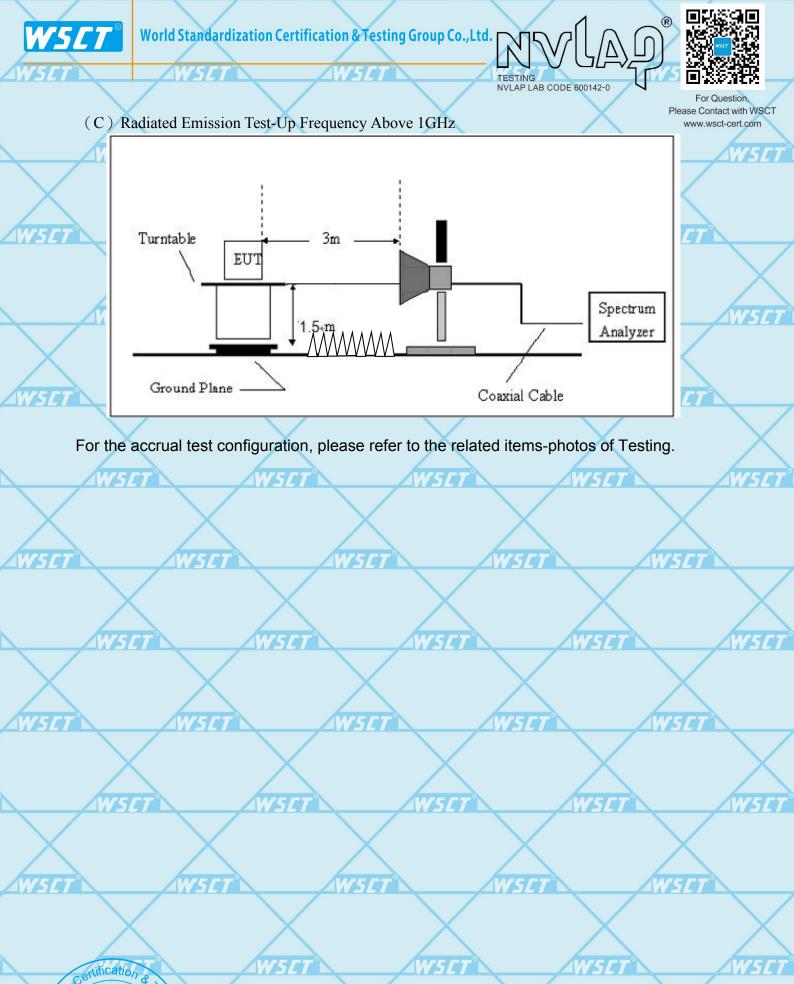
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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7.1.5. 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)
0.009-0.490	2400/F(kHz)	300
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

7.1.6. Test result:

From 9KHz to 30MHz

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

WSET WSET WSET WSET WSET WSET WSET

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Frequency from 30MHz to 1GHz

Horizontal: 80.0 dBuV/m For Question,
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	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	A DE
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
·	1	1	32.1795	26.88	3.96	30.84	40.00	-9.16	QP
_	2	4	71.0803	36.88	-7.02	29.86	40.00	-10.14	QP
	3		88.6524	35.43	-6.08	29.35	43.50	-14.15	QP
	4	*	145.3506	40.34	-4.65	35.69	43.50	-7.81	QP
	5	1	193.0945	37.72	-7.13	30.59	43.50	-12.91	QP
	6		289.0021	34.35	-2.77	31.58	46.00	-14.42	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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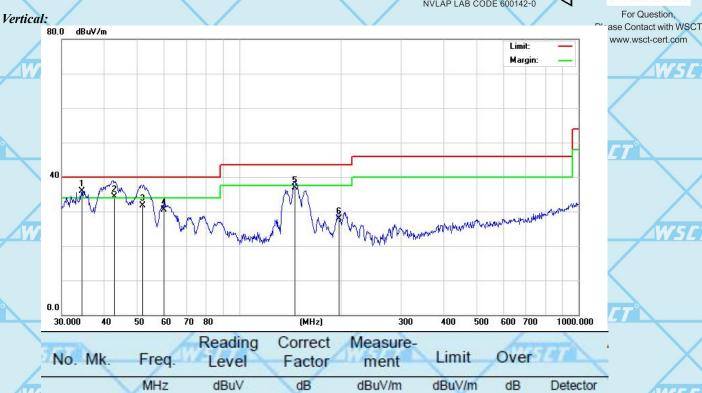
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	No. Mk	. Freq.	Level	Factor	ment	Limit	Over	784
V		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1 *	34.3964	32.75	3.11	35.86	40.00	-4.14	QP
	2 1	42.8562	35.53	-1.19	34.34	40.00	-5.66	QP
	3	51.8679	37.03	-5.25	31.78	40.00	-8.22	QP
	4	60.0691	36.81	-6.22	30.59	40.00	-9.41	QP
	7.5	145.8611	41.63	-4.68	36.95	43.50	-6.55	QP
V	6	196.5098	34.91	-7.07	27.84	43.50	-15.66	QP

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

WSET	WSET	WSET	WSET	W	SET
\rightarrow			\times	\times	\times
WSE	7 W.S	ET [®]	WSET	WSCT	WSET
WSET	WSCT	WSCT	WSGI	W	SET
\rightarrow			WSET	WSET	WSET
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7.1.7. From 1GHz to 25GHz:

Operation Mode:	Channel 0	Measured Distance:	3m/567
Frequency Range:	Above 1GHz	Temperature :	28℃
Test Result:	PASS	Humidity:	65 %

Freq.	Ant.Pol.	Emission I	n Level(dBuV) Limit 3m(d		(dBuV/m)	Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
4804	V	59.79	40.79	74	54	-14.21	-13.21
7206	V	59.15	39.09	74	54	-14.85	-14.91
4804	Н	58.61	39.08	74	54	-15.39	-14.92
7206	H	59.03	40.03	7 7 4	54	-14.97	-13.97

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	W5ET [®]	W5ET"	W5ET [®]	
W.51				WSET*	WSET
WSET	WSET	WSET	WSET	WSET	
W51				WSCT	WSET
WSET	WSET	WSET	WSET	WSET	
					X

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	Operation Mode:	Channel 20	Measured Distance:		vsct-cert.com
A	Frequency Range:	Above 1GHz	Temperature :	28°C	WEET
4	Test Result:	PASS	Humidity:	65 %	ZIPI

Freq.	Ant.Pol.	Emission 1	Level(dBuV)	Limit 3m((dBuV/m)	Over	(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
4880	W5VT°	60.05	40.68	74	V 54 F T	-13.95	-13.32
7320	V	59.18	39.83	74	54	-14.82	-14.17
4880	Н	59.04	39.06	74	54	-14.96	-14.94
7320	Н	59.55	40.55	74	54	-14.45	-13.45

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	W5E	7 °
WS			'5 [T	WSET	WSET
WSET	WSET	WSET	WSET	WSE	
WS			5.07	WSET	WSET
WSET	WSET	WSET	WSET	WSE	
dification			'5 [T	WSET	WSET

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For Question,

	Operation Mode:	Channel 39	Measured Distance:		www.wsct-cert.com
1	Frequency Range:	Above 1GHz	Temperature :	28°C	WSE
	Test Result:	PASS	Humidity:	65 %	

	Freq.	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	(MHz)	H/V	PK	WAV7	PK	AV	PK	AV C
	4960	V	58.93	39.89	74	54	-15.07	-14.11
	7440	V	59.63	39.41	74	54	-14.37	-14.59
	4960	Н	58.52	40.02	74	54	-15.48	-13.98
A	7440	Н	59.14	40.14	74	54	-14.86	-13.86

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 .	WSCT"	WSCT	W5ET	W	5 <i>[7</i>]
WSE		\times	WSET	WSET	WSET
WSET	WSET	WSET	WSET		SET
W5E		\times	WSET	WSET	WSET
WSET	WSET	WSET	WSET		SET
			X	X	X

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8. -6dB BANDWIDTH TESTING

8.1.1. Test Equipment

Please refer to Section 4 this report.

8.1.2. 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.

8.1.3. Environmental Conditions

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

8.1.4. Applicable Standard

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.

WSET	W5ET°	WSET	WSET	W5ET°
WSI			SET WS	
WSCT	WSCT	WSCT	WSCT	WSIT

8.1.5. Test Result: Pass.

Please refer to the following tables

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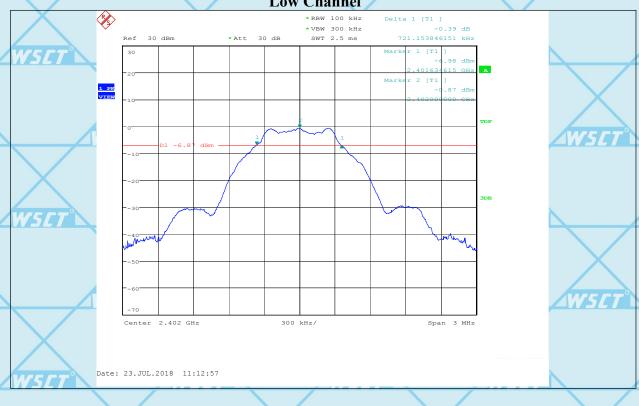




			NVLAP LAB CODE 6	30142-0
Channel Frequency (MHz)	Data Rate (Mbps)	6dB Bandwidth (kHz)	Limit (kHz)	Ref. Plot
2402	1	721.15	>500	PLOT 1
2440	1	716.35	>500	PLOT 2
2480	1	721.15	>500	PLOT 3

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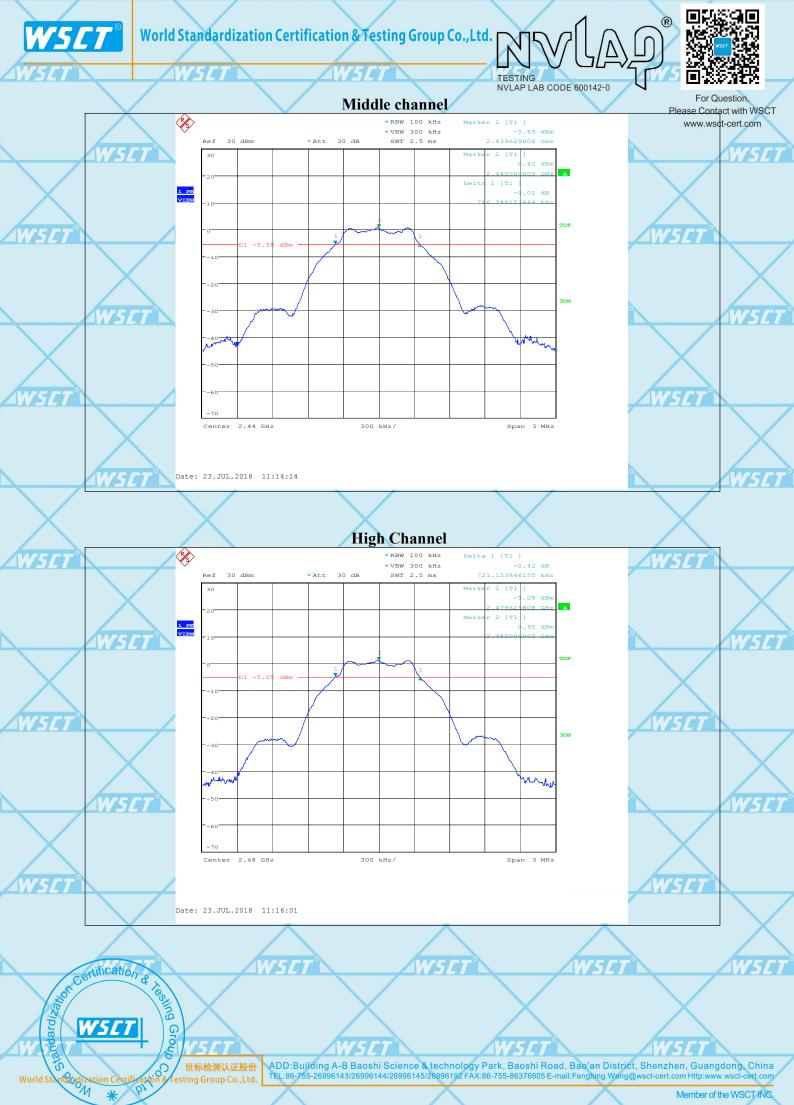
Low Channel



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9. MAXIMUM PEAK OUTPUT POWER

9.1.1. Test Equipment

Please refer to Section 4 this report.

9.1.2. Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in 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 \geq 3RBW, span \geq 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.

9.1.3. Environmental Conditions

Temperature:	26 °C
Relative Humidity:	55%/5/T° W5/T°
ATM Pressure:	100.0kPa

9.1.4. 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.

SET WSET WSET WSET

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9.1.5. Test Result

Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Power (dBm)	Limit (dBm)	
Low	2402	1	0.31	30	
Middle	2440	1	0.09	30	
High	2480	11000	-0.01	30	



Date: 23.JUL.2018 11:16:46

Center 2.402 GHz

WSET WSET WSET WSET WSET

WSET WSET WSET WSET

300 kHz/

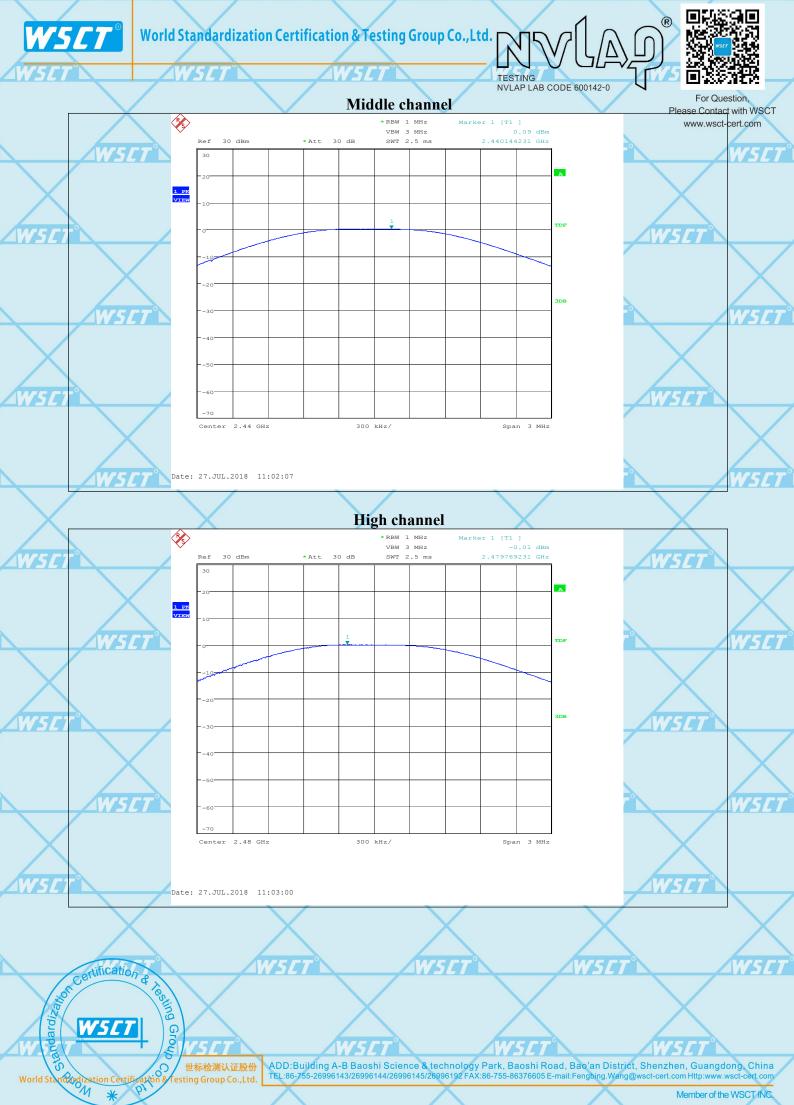
WSET WSET WSET

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Span 3 MHz

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10. 100 kHz Bandwidth of Frequency Band Edge

10.1.1. Test Equipment

Please refer to Section 4 this report.

10.1.2. 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.

10.1.3. Environmental Conditions

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

10.1.4. 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)).

§13.209(a) (300 §	13.203(0)).			
WSET	WSET	WSET	WSET	WSET
	\checkmark			
	\triangle			
W5CT W	VSET WS	TT° WSE	7° W5[
W5ET°	WSET®	W5CT°	W5LT°	WSET
	\vee			
		\	\setminus	
WSET N	SET WS	CT WSE	7° W5E	7 °
rtification	WSET	W5ET	W5ET°	WSET
Certification & Teaming				
	X	X	X	

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10.1.5. Test Result: PASS

	WSET	Rad	liated r	neas	ureme	ent:	W.	ET		W5E	7°		W5E
	Indica	ted		Table	Ante	nna	С	orrection Fa	actor	FCC	C Part 15.24	7	
77	Frequency (MHz)	Receiver Reading (dBµV/m)		Anala	Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
					Low C	hanne	1 (2402	MHz)					
	2390	39.46	AV	225	1.5	V	30.3	4.1	33.1	40.76	54	13.24	
	2390	40.68	AV	90	2	Н	30.3	4.1°	33.1	39.38	54	12.02	W50
	2390	60.22	PK	180	1.5	V	30.3	4.1	33.1	61.52	74	12.48	
	2390	59.72	PK	270	2	Н	30.3	4.1	33.1	61.02	74	12.98	
	<u> </u>				High C	Channe	1 (2480	MHz)					
77	2483.5	41.63	AV	360	1	5 (V)	31	4.4	32.7	44.33	54	9.67	
	2483.5	41.58	AV	90	2	Н	31	4.4	32.7	44.28	54	9.72	
	2483.5	60.36	PK	180	1	V	31	4.4	32.7	63.06	74	10.94	
	2483.5	60.74	PK	225	2	Н	31/	4.4	32.7	63.44	74	10.56	W5L

WSET	WSET	WSET	WSET	WSET	
WSE				WSET	WSCT
WSET	WSET	WSET	WSET	WSET	
WSE				W5CT°	WSET
WSET	WSET	WSET	WSET	WSET	
X			X		X

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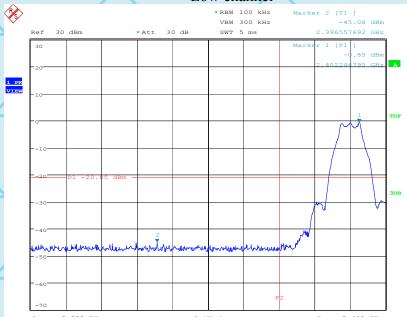






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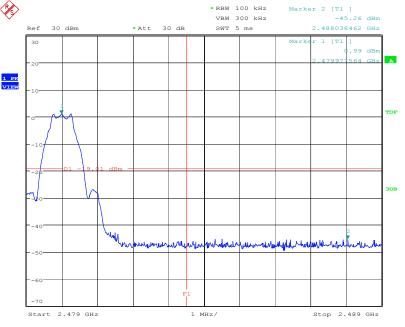


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Conducted Emission Measurement:

High channel



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AWSET[®]

WSFT

WEL

W5E7

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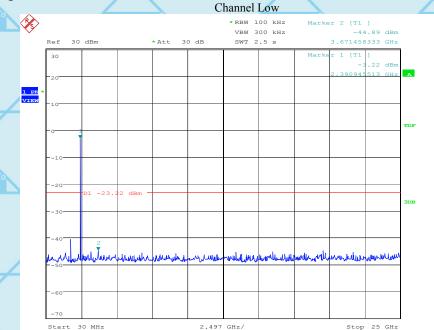




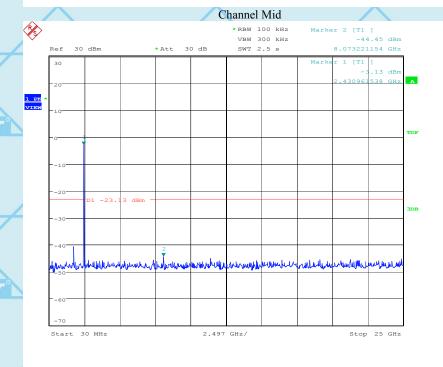


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Conducted spurious emissions



Date: 23.JUL.2018 11:22:04



Date: 23.JUL.2018 11:22:47

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11. MAXIMUM CONDUCTED POWER SPECTRAL DENSITY

11.1.1. Test Equipment

Please refer to Section 4 this report.

11.1.2. 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.

11.1.3. Environmental Conditions

Temperature:	25 °C 5 5 7 W 5 5 7
Relative Humidity:	55%
ATM Pressure:	100.0kPa

11.1.4. 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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11.1.5. Test Result

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Channel Frequency (MHz)	Data Rate (Mbps)	PSD (dBm/3kHz)	Limit (dBm/3kHZ)	RESULT
2402	1	-15.17	8	Compliant
2440	1	-13.84	8	Compliant
2480	1	-13,31	W58.7°	Compliant







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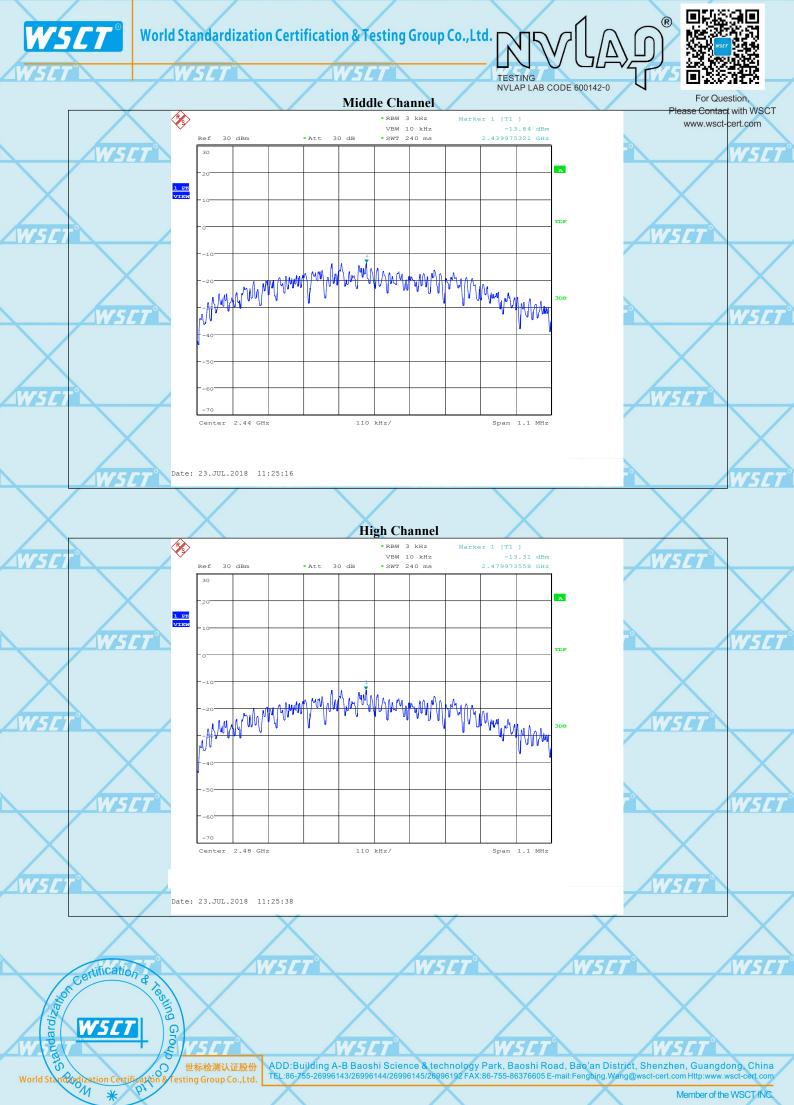
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12. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST

W5ET°



WSET[®]

WSET°

RADIATED EMISSION TEST

(Frequency from 30MHz to 1GHz)



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RADIATED EMISSION TEST

(Frequency above 1GHz)



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TESTING
NVLAP LAB CODE 600142-0



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PHOTOGRAPHS OF EUT

Refer to test report FCC18070037A-15B

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