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TEST REPORT

FCC ID: 2AIZN-X609B

Product: Mobile Phone

Model No.: X609B

Additional Model No.: N/A

Trade Mark: Infinix

Report No.: FCC18080068A-BLE

Issued Date:Oct. 16, 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,
Bao'an District, Shenzhen, Guangdong, China

TEL: +86-755-26996192 FAX: +86-755-86376605

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WSET	1.	MAXIMUM CONDUCTED PO	WSCT WSCT	WSCT W	W5LT W5LT
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WSCT*	1.	WSET WSET	SET WSET	WSCT W	W5LT W5LT

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GENERAL INFORMATION

Product:	Mobile Phone
Model No.:	X609B
Additional Model:	N/A
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
Data of receipt:	Sep. 26, 2018
Date of Test:	Sep. 26, 2018 to Oct. 15, 2018
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
	Model No.: Additional Model: Applicant: Address: Manufacturer: Address: Data of receipt: Date of Test: Applicable

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.

Pushixi Tested By:

Date: Oct. 16, 2018

(Pu Shixi)

Check By: Qin Shuiguan (Qin Shuiguan)

(Wang Fengbing)

Date: 0ct. 16, 2018

Approved By:

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GENERAL DESCRIPTION OF EUT

Z. GENER	TAL DESCRIPTION OF EUT
Equipment Type:	Mobile Phone
Test Model:	X609B
Additional Model:	NAT WSET 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:	V2.0
Software version:	X609B-H8025C-GO-180911V46
Extreme Temp. Tolerance:	-10℃ to +65℃
Battery information:	Li-Polymer Battery : BL-34BX Voltage: 3.8V Rated Capacity:3400mAh/12.92Wh Typical Capacity:3500mAh/13.30Wh Limited Charge Voltage: 4.35V
Adapter Information:	Adapter: CU-52JT Input: AC 100-240V 50/60Hz 200mA Output: DC 5V==1.2A
Operating Frequency:	2402-2480MHz
Channels:	40
Channel Spacing:	2MHz
Modulation Type:	GFSK W5ET W5ET W5ET
Antenna Type:	Integral Antenna
Antenna gain:	1.26dBi

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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)
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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3.2. TEST DESCRIPTION

3.2.1. MEASUREMENT UNCERTAINTY

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

level of confidence of approximately 95 % •						
WSET	No.	Item	Uncertainty	WSET		
\searrow	1	Conducted Emission Test	±3.2dB			
	2	RF power,conducted	±0.16dB			
W5E	3	Spurious emissions, conducted	±0.21dB W5CT	WSET		
	4	All emissions,radiated(<1G)	±4.7dB			
	5	All emissions,radiated(>1G)	±4.7dB			
WSET	6 W	Temperature W577	±0.5°C/5/7°	WSET		
	7	Humidity	±2%			
X		\times	$\langle \ \ \ \ $	X		
WSD	7	WSET WS	ET WSET	WSCT		
X		X X	X	X		
WSET	100	SET WSET	WSET	WSET		
	/					
X		\times	X	X		
WSI		WSET WS	ET WSET	AVE CT		
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X		× ×	X	\times		
WSET	W	SET° WSET°	WSET	WSET		
\searrow						
W5L	7	WSET [®] WS	ET° WSET	W5LT		
	/	\wedge				
WSET	W.	SCT WSCT	WSET	WSET		
X				X		
sification	7	WSET WS	ET WSET	WSET		
Certification	4/2					
ZZ		X	X	X		

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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.

<	Pretest Mode	Description
	Mode 1	CH00
1	Mode 2	W5/CH20 W5/T
	Mode 3	CH39
	Mode 4	Normal

For Conducted Emission				
Final Test Mode Description				
Normal				
	Description			

		For Radiated Emission
	Final Test Mode	Description
	Mode 1	CH00
(Mode 2	CH20
3	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 ≥ 98%

WSET WSET WSET WSET WSET

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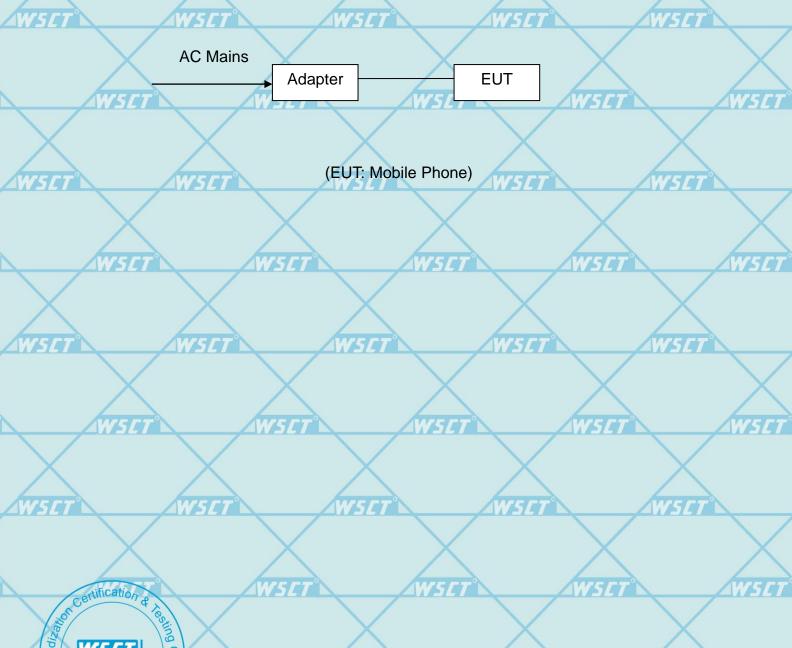
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3.2.3. Table of Parameters of Text Software Setting

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 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	N/A		EET	AVIII A
1	Version	AMPLI		54	4W3L/ 1
	Frequency	2402 MHz	2440 MHz	2480 MHz	
A	Parameters(1Mbps)	DEF	DEF	DEF	
4	17-14		A IP L	ANDLI	

3.2.4. CONFIGURATION OF SYSTEM UNDER TEST



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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.

`							/
7	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note	
	1	Adapter		CU-52JT	\	/	
	2	Earphone	X /	N/A		/	
	W	15.57	WSET	WSET	WSET		
/	Note:						
	(1) The support equipment was authorized by Declaration of Confirmation.						
\	(2)	For detachable typ	e I/O cable should be s	specified the length in	cm in FLength	n column.	
7	(3)	"YES" is means "sl	nielded" "with core"; "No	O" is means "unshield	ded" "without co	ore". 527	

	WSET	WSET	WSET	WSET	WSET
WSET	$\langle \ \rangle$			SET WS	
	WSET	WSET	W5ET°	WSET	WSET
WSET	WSL	W51	W.	SET WS	
	WSET	W5ET°	WSET	WSET	WSET
WSE				SET WS	
	etification e	WSET	WSET	WSET	WSET

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3.4. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	WSCT	WSET WSET	W	SET	W5E7
		FCC Part15 (15.247) , Subpart 0	;		
	Standard Section	Test Item	Judgment	Remark	7
	15.203	Antenna Requirement	PASS		
	15.207	Conducted Emission	PASS		
	15.209, 15.205, 15.247(d)	Spurious Emission	PASS		WSLI
	15.247(a) (2)	6dB Bandwidth Testing	PASS	X	
7	15.247(b) (3)	Maximum Peak Output Power	PASS	W51	7
	15.247(d)	100 KHz Bandwidth of Frequency Band Edge	PASS	X	X
	15.247(e)	Maximum Conducted Power Spectral Density	PASS W	SET	WSET

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NOTE:

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

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WSET WSET

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4. MEASUREMENT INSTRUMENTS

_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibrati on Due.	V
	EMI Test Receiver	R&S	ESCI	100005	08/19/2018	08/18/2019	
7	LISN	AFJ	LS16	16010222119	08/19/2018	08/18/2019	
	LISN(EUT)	Mestec	AN3016	04/10040	08/19/2018	08/18/2019	7
	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	08/19/2018	08/18/2019	
	Coaxial cable	Megalon	LMR400 / 5	N/A	08/12/2018	08/11/2019	C
/	GPIB cable	Megalon	GPIB	N/A	08/12/2018	08/11/2019	
	Spectrum Analyzer	R&S	FSU	100114	08/19/2018	08/18/2019	
7	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	09/13/2018	09/12/2019	
	9*6*6 Anechoic	WSET	W5		08/21/2018	08/20/2019	ſ
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		09/13/2018	09/12/2019	
\	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2018	08/22/2019	
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	77° N/A	N.C.R	N.C.R	C
/	RF cable	Murata	MXHQ87WA3000	-\/	08/21/2018	08/20/2019	
\	Loop Antenna	EMCO	6502	00042960	08/22/2018	08/21/2019	
7	Horn Antenna	SCHWARZBECK	BBHA 9170	11235 []	08/19/2018	08/18/2019	
	Power meter	Anritsu	ML2487A	6K00003613	08/23/2018	08/22/2019	
	Power sensor	Anritsu	MX248XD		08/19/2018	08/18/2019	

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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 integrated on PCB, The antenna's gain is 1.26dBi and meets the requirement.

	WSET	WSET	WSET	WSET	WSET
WSET	X	\times			507
	WSET	WSET	WSLT	WSET	WSET
WSET	X				5.57
	X	WSET	WSET	WSET	WSET
ion C	ertification & Reg				

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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

Temperature:	26 °C
Relative	60%
Humidity:	0076
-	400 OkDa
ATM Pressure:	100.0kPa
Voltage	120V/60Hz

6.1.4. TEST RESULTS WSET

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

nted hereinafter as reference.

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WSET WSET WSET WSET WSET

WSET WSET WSET WSET WSET

WSCT WSCT WSCT WSCT WSCT

WSET WSET WSET

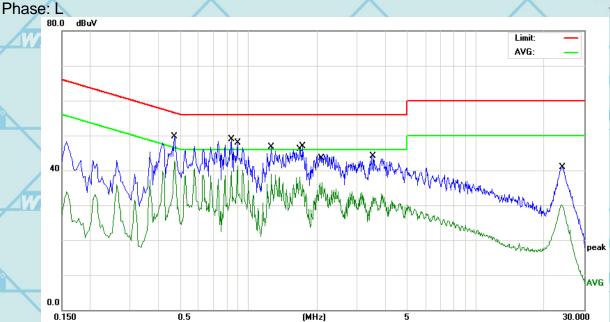
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector
1		0.4700	37.41	10.40	47.81	56.51	-8.70	QP
2	*	0.4700	32.36	10.40	42.76	46.51	-3.75	AVG
3		0.8380	37.29	10.36	47.65	56.00	-8.35	QP
4		0.8900	31.03	10.35	41.38	46.00	-4.62	AVG
5		1.2579	33.51	10.33	43.84	56.00	-12.16	QP
6		1.2579	28.67	10.33	39.00	46.00	-7.00	AVG
7		1.6740	27.70	10.31	38.01	46.00	-7.99	AVG
8		1.7300	31.05	10.30	41.35	56.00	-14.65	QP
9		2.1099	26.15	10.29	36.44	46.00	-9.56	AVG
10		3.5220	28.36	10.26	38.62	56.00	-17.38	QP
11		23.7620	20.09	10.10	30.19	50.00	-19.81	AVG
12		24.0500	25.26	10.10	35.36	60.00	-24.64	QP

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



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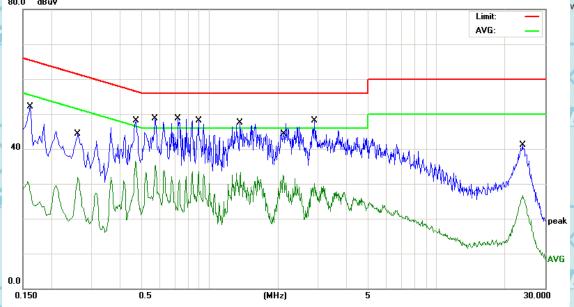




Phase: N

80.0 dBuV

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/	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
V			MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector
	1		0.1620	28.99	10.44	39.43	65.36	-25.93	QP
	2		0.2620	21.52	10.43	31.95	51.36	-19.41	AVG
_	3	*	0.4700	26.02	10.40	36.42	46.51	-10.09	AVG
	4		0.5740	32.19	10.39	42.58	56.00	-13.42	QP
7	5		0.7260	27.78	10.37	38.15	56.00	-17.85	QP
4	6		0.8900	23.18	10.35	33.53	46.00	-12.47	AVG
	7		1.3580	31.69	10.32	42.01	56.00	-13.99	QP
	8		1.3619	22.93	10.32	33.25	46.00	-12.75	AVG
\	9		2.1099	22.13	10.29	32.42	46.00	-13.58	AVG
/	10		2.8980	28.28	10.27	38.55	56.00	-17.45	QP
V	11		23.8220	25.25	10.10	35.35	60.00	-24.65	QP
	12		23.9220	16.53	10.10	26.63	50.00	-23.37	AVG
			-		-				

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

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7. SPURIOUS EMISSIONS

7.1.1. Test Equipment

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.

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	55%	
Humidity:		WEET
ATM Pressure:	100.0kPa	

XXX

WSET WSET WSET

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7.1.4. Radiated Test Setup

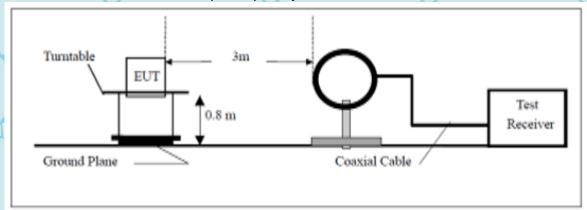
The system was investigated from 9 KHz to 25 GHz.

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

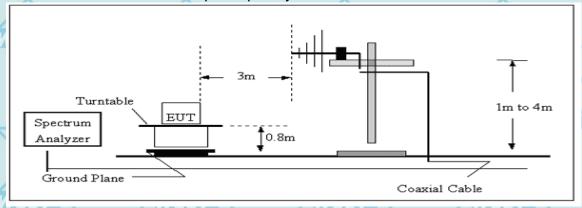
set with the following configurations:

Frequency Range	RBW	Video B/W	Detector	
9KHz-30MHz W5	9kHz W5	30 kHz	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

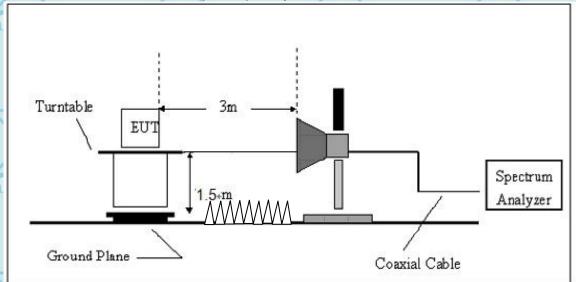


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(C) Radiated Emission Test-Up Frequency Above 1GHz



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

	WSET	WSET	WSET	W5ET*	W5ET [*]
_	\times	SET WSE			500
	WSET	WSET	WSET	WSET	WSET
	\times	SET WSE			517
	WSET	WSET	WSET	WSET	WSET
,	\times	SET WSE			SET SET
	X	WSET	WSET	WSET	WSET
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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
4	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 WSET

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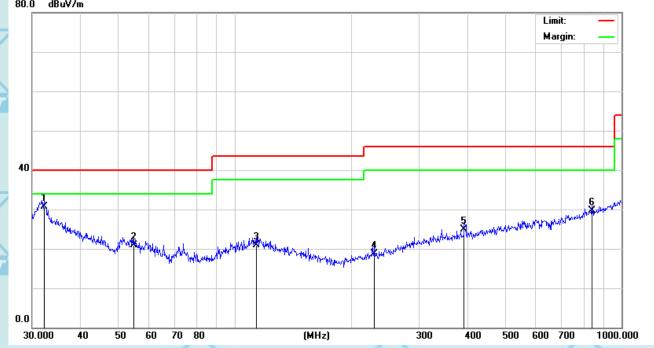






Frequency from 30MHz to 1GHz

Horizontal: 80.0 dBuV/m For Question,
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_								
NI	o. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	4
1.41	O. IVIK.	1164.	Level	Factor	ment		7010	
3		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
à	1 *	32.1795	26.79	3.96	30.75	40.00	-9.25	QP
	2/1	54.8348	26.43	-5.59	20.84	40.00	-19.16	QP
1	3	113.7143	23.06	-2.23	20.83	43.50	-22.67	QP
	4	229.2931	24.46	-5.67	18.79	46.00	-27.21	QP
1	5	392.0951	26.41	-1.56	24.85	46.00	-21.15	QP
	6	839.1818	25.19	4.57	29.76	46.00	-16.24	QP

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

WSET WSET

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	THE STATE OF
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	* /	32.2925	27.95	3.91	31.86	40.00	-8.14	QP
_2	All	42.3022	26.92	-0.98	25.94	40.00	-14.06	QP
3		58.2030	33.49	-6.00	27.49	40.00	-12.51	QP
4		104.1701	24.77	-3.01	21.76	43.50	-21.74	QP
15	1	04.7062	24.17	0.66	24.83	46.00	-21.17	QP
6	8	36.2443	25.31	4.53	29.84	46.00	-16.16	QP

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

T WSET WSET WSET WS

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7.1.7. From 1GHz to 25GHz:

Operation Mode:	Channel 0	Measured Distance:	3m 5-7
Frequency Range:	Above 1GHz	Temperature :	28℃
Test Result:	PASS	Humidity:	65 %

Freq.	Ant.Pol	Emission Level(dBuV)				Over(dB)	
(MHz)				3m(dB	luV/m)		
	H/V	PK	AV	PK	AV	PK	AV
4804	V	59.00	40.75	74	54	-15.00	-13.25
7206	V	59.25	40.65	74	54	-14.75	-13.35
4804	H /	59.34	39.29	74	54	-14.66	-14.71
7206	H	58.26	39.26	74	54	-15.74	-14.74

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	W5ET*	
W.51				\times	VSCT
WSET	WSET	WSET	WSLT	WSET	
WS		$\langle \ \ \rangle$		\times	VISCIT.
WSET	WSET	W5ET°	WSET	WSET	
certification		$\langle \ \ \rangle$		\times	VISCT

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For Question,

	Operation Mode:	Channel 20	Measured Distance:		vw.wsct-cert.com
1	Frequency Range:	Above 1GHz	Temperature :	28℃	WELL
	Test Result:	PASS	Humidity:	65 %	THE IS

Freq. (MHz)	Ant.Pol	Emission Level(dBuV		Limit 3m(dBuV/m)		Over(dB)	
` _	// H/V	PK	AV7°	PK	AVET	PK	ZVAVET
4880	V	60.35	39.47	74	54	-13.65	-14.53
7320	V	60.00	39.65	74	54	-14.00	-14.35
4880	Н	58.85	39.31	74	54	-15.15	-14.69
7320	Н	59.90	40.90	74	54	-14.10	-13.10

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.

ZWSCT \	W5CT	AWSCT	W5CT	WSET	
W.51	W.S		WSET	WSET	WSET
WSET	WSET	WSET	WSET	WSET	
WS			WSET	WSET	WSET
WSET	WSET	W5ET*	WSET	WSET	
					X

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For Question,

	X	X	X	X	Please Contact with WSC
	Operation Mode:	Channel 39	Measured Distance:	3m	www.wsct-cert.com
A	Frequency Range:	Above 1GHz	Temperature :	28℃	WSI
	Test Result:	PASS	Humidity:	65 %	

Freq.	Ant.Po.	Emission	Emission Level(dBuV		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	WH/V	PK	WAV7	PK	VAVET	PK	AV CT	
4960	V	59.68	40.28	74	54	-14.32	-13.72	
7440	V	59.19	39.48	74	54	-14.81	-14.52	
4960	Н	58.66	40.88	74	54	-15.34	-13.12	
7440	Н	59.94	40.94	74	54	-14.06	-13.06	

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*	W5CT [°]	WSET	W5ET*	WSET [®]	
WS			\times	\times	WSET
WSET	WSLT	WSET	WSET	WSET	
W5			\times	X	WSET
WSET	WSLT	WSET	WSET	WSET	
\rightarrow			\times	X	WSET

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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	55%	All Control
Humidity:	AW5L/	WSL
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.

	V-7-7-7	WSL	4W5L/	ZW56/	ZWSLI
WSET	WSET	WSET	WSET	WSCT	
	WSET*	WSET	WSET	WSET	WSET
WSET	WSET	WSET	WSET	WSCT	

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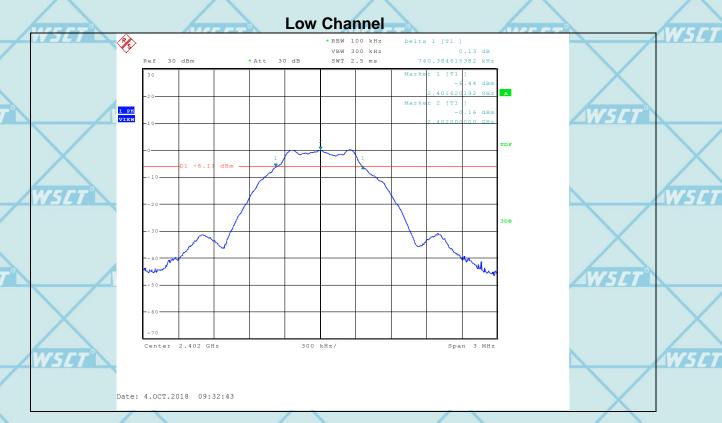


8.1.5. Test Result: Pass.

Please refer to the following tables

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	Channel Frequency (MHz)	Data Rate (Mbps)	6dB Bandwidth (kHz)	Limit (kHz)	Ref. Plot
	2402	1	740.38	>500	PLOT 1
/	2440	1	745.19	>500	PLOT 2
	2480	1	735.58	>500	PLOT 3

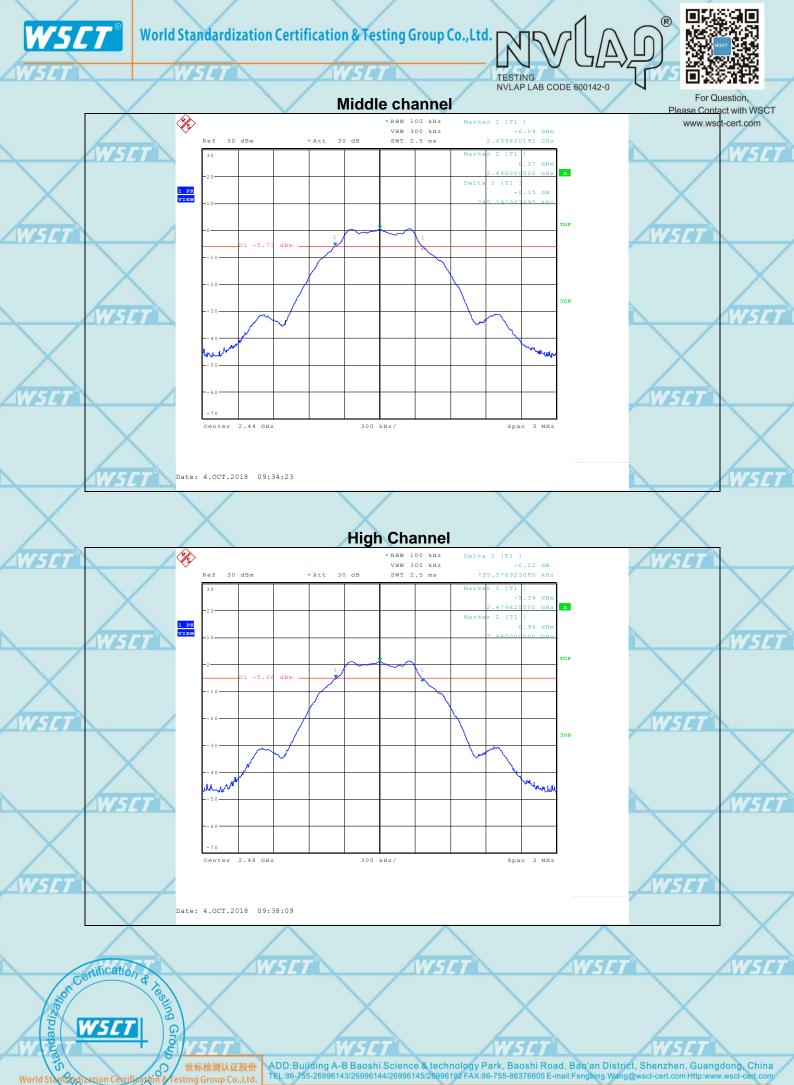




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9. MAXIMUM PEAK OUTPUT POWER

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 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.

9.1.3. Environmental Conditions

Temperature:	26 °C 5/7° W5/7°
Relative	55%
Humidity:	
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.

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9.1.5. Test Result

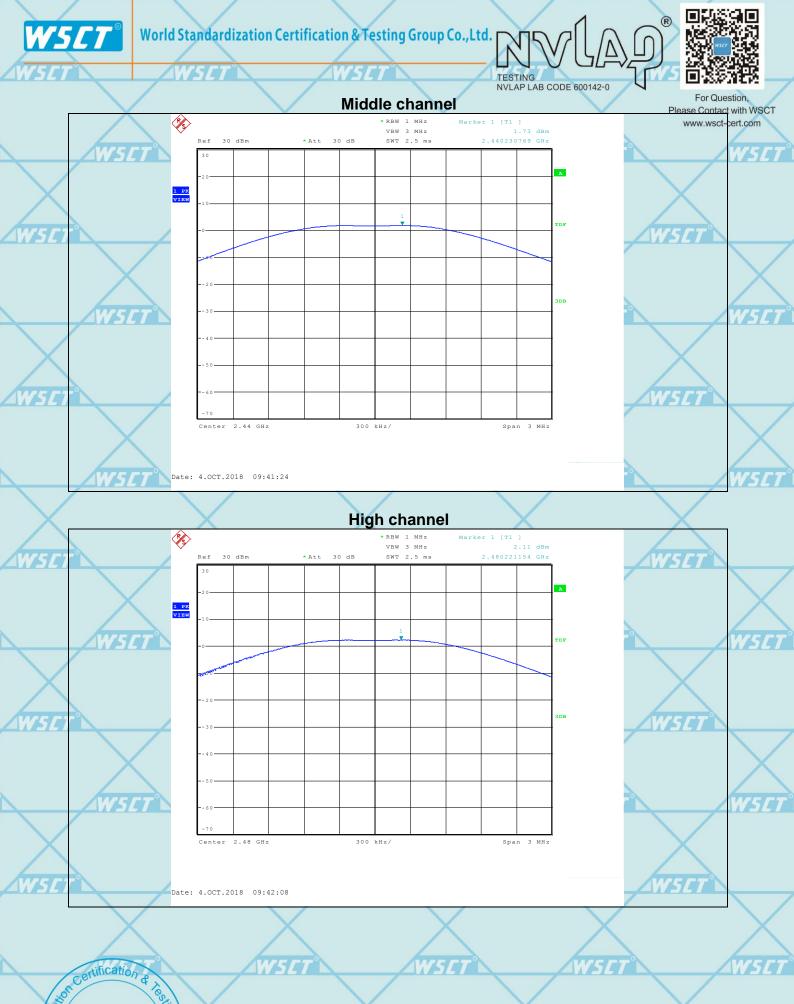
	Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Power (dBm)	Limit (dBm)
4	Low	2402	1	1.00	30
	Middle	2440	1	1.73	30
	High	2480	WSET	2.11 _{W5/7}	30

Low channel



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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
4	Relative	55%
	Humidity:	
	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)).

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2483.5

2483.5

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2483.5

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TESTING
NVLAP LAB CODE 600142-0

32.7

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32.7

32.7

43.82

43.9

63.05

65.01



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10.18

10.1

10.95

8.99

54

54

74

74

10.1.5. Test Result: PASS

41.12

41.20

60.35

62.31

AV

ΑV

PΚ

PK

360

90

180

225

2

1

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	WSET	Rad	liated i	meas	ureme	ent:	W.	SET L		W5E	7		ľ
/	Indicated		Toblo	Table	Antenna		Correction Factor		FCC Part 15.247		47		
/	Frequency (MHz)	Receiver Reading (dB _µ V/m)	IPN/AVI	Angle Degree	Height (m)	I(H/\/)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	_
Low Channel (2402MHz)													
	2390	40.23	AV	225	1.5	V	30.3	4.1	33.1	41.53	54	12.47	
	2390	41.68	AV	90	2	Н	30.3	4.1	33.1	42.98	54	11.02	6
	2390	61.21	PK	180	1.5	V	30.3	4.1	33.1	41.53	74	11.49	
	2390	61.92	PK	270	2	H	30.3	4.1	33.1	63.22	74	10.78	
	High Channel (2480MHz)												

31

31

31

31

4.4

4.4

4.4

4.4

WSET	WSLT	W5CT	WSET	WSET	
W51			WS WS		WSET
WSET	WSET	WSET	WSET	WSET	
WS			W's		WSET
WSET	WSET	WSET	WSET	WSET	
					/

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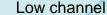






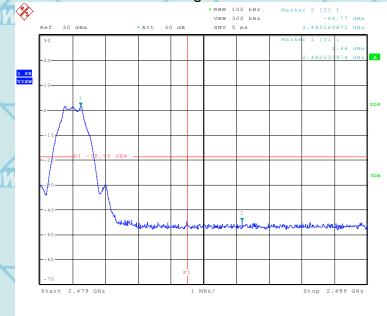
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Conducted Emission Measurement:





High channel



ate: 4.OCT.2018 09:45:26

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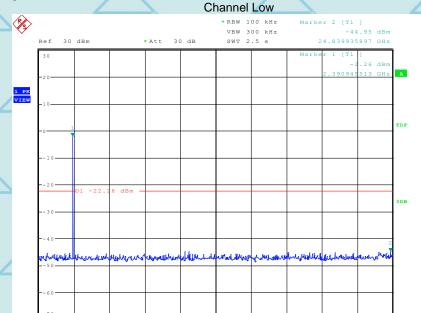


Stop 25 GHz



For Question,
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Conducted spurious emissions



2.497 GHz/

Date: 4.OCT.2018 09:46:55

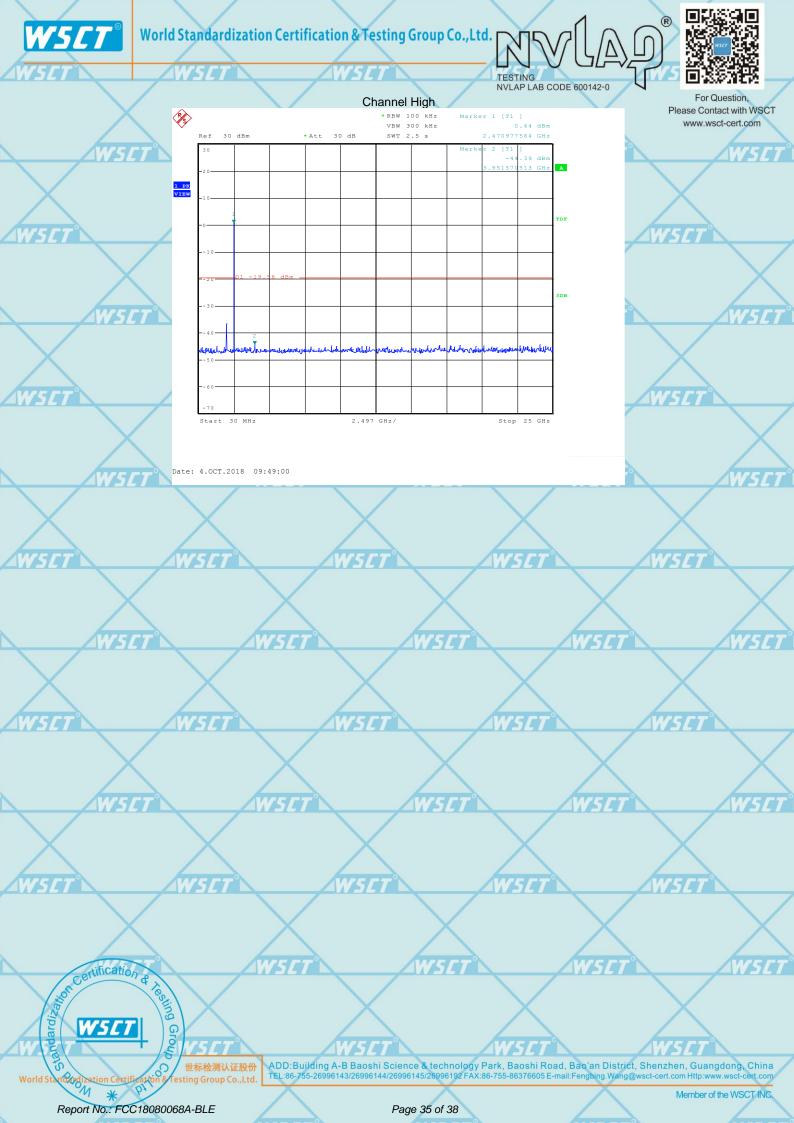
Start 30 MHz

Date: 4.OCT.2018 09:47:54

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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 °C5/7 W5/7
Relative	55%
Humidity:	X
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.

世标检测认证股份 festing Group Co.,Ltd. ND:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, Chin.





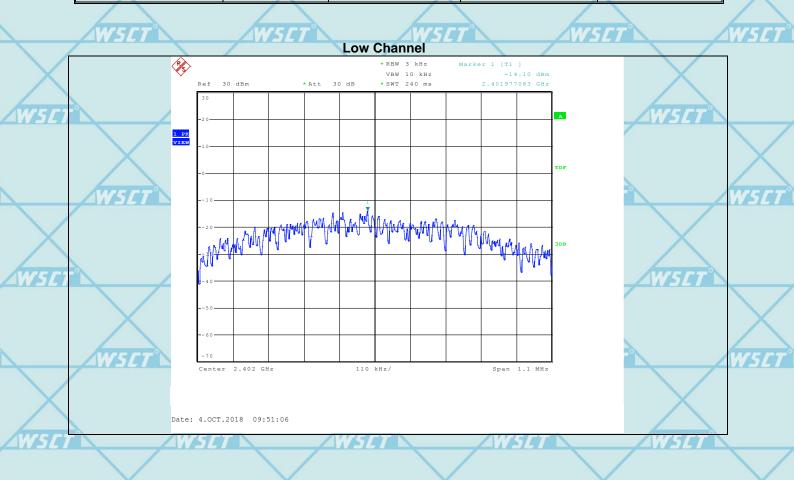


For Question,
Please Contact with WSCT
www.wsct-cert.com

11.1.5. Test Result

PASS

	Channel Frequency (MHz)	Data Rate (Mbps)	PSD (dBm/3kHz)	Limit (dBm/3kHZ)	RESULT	
	2402	1	-14.10	8	Compliant	
4	2440 W54	1	-13.61	W5 8	Compliant	
	2480	1	-12.90	8	Compliant	



WSET WSET WSET WSET WSET

WSET 世标检测认证股份

esting Group Co.,Ltd.

WSET

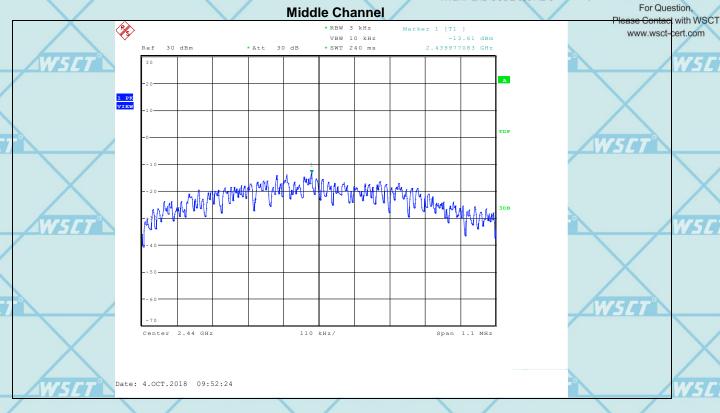
WSGT

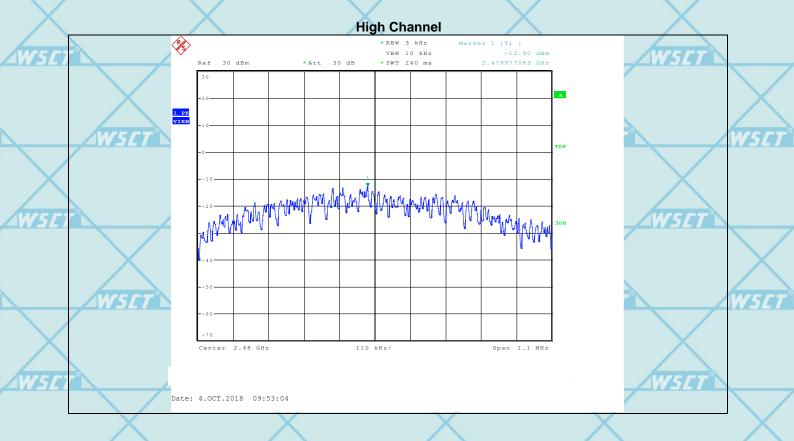
ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com











---END OF REPORT---

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