



FCC TEST REPORT (PART 90)

Applicant:	Sonim Technologies, Inc.		
Address:	6836 Bee Cave Road, Building 1, Suite 279, Austin, Texas 78746, USA		
Manufacturer or Supplier:	Sonim Technologies (Shenzhen) L	imited	
Address:	2nd Floor, No. 2 Building Phase B Baoan, Shenzhen, P. R. China	, Daqian Industrial park, Longchang Road, 67 District,	
Product:	Mobile Phone		
Brand Name:	Sonim		
Model Name:	XP8800		
FCC ID:	WYPPG4032		
Date of tests:	Jul. 01, 2020 ~ Jul. 08, 2020		
The tests have bee	The tests have been carried out according to the requirements of the following standard:		
⊠ FCC Part 90, S ⊠ FCC Part 2		03- D 3-E ⊠ ANSI C63.26-2015	
CONCLUSION: The submitted sample was found to COMPLY with the test requirement			
Prepared by Roger Li Engineer / Mobile Department Approved by Sam Tung Manager / Mobile Department		• • • • • • • • • • • • • • • • • • • •	
Alex		luke lu	
	ate: Jul. 23, 2020	Date: Jul. 23, 2020	
http://www.bureauveritas.com/hom	corporates by reference, CPS Conditions of Service as posted at ne/about-us/our-business/cps/about-us/terms-conditions/and is in	the date of issuance of this report at tended for your exclusive use. Any copying or replication of this report to or for any other person or	

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF171017C11A-1	Original release	Oct. 24, 2019
RF200702W001-11	Based on the original report RF171017C11A-1.add a new charger, update SW version, change the address and add two type numbers	Jul. 23, 2020



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: FCC Part 90 & Part 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK	
2.1046 90.635(b) 90.542(a)(7)	Maximum Peak Output Power	N.A	See note 1	
2.1055 90.213 90.539	Frequency Stability	N.A	See note 1	
2.1049 90.209	Occupied Bandwidth	N.A	See note 1	
90.635 90.542	Peak to average ratio	N.A	See note 1	
2.1051 90.691 90.543	Emission Masks	N.A	See note 1	
2.1051 90.691 90.543	Conducted Spurious Emissions	N.A	See note 1	
2.1053 90.691 90.543	Radiated Spurious Emissions	Compliance	Meet the requirement of limit.	

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01. Note:

1. Per the change notice provide by manufactory, the difference is add a new charger and two type numbers, and change the address and SW version, all the change no effect any RF parameter, Therefore only verify the radiated emission and show the verify test data on this report.

Report Version 1



1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI TR 100 028-1 V1.4.1(2001-12):

MEASUREMENT	UNCERTAINTY
Effective Radiated Power	±2.35dB
Frequency Stability	±76.97Hz
Radiated emissions & Radiated Power (30MHz~1GMHz)	±4.98dB
Radiated emissions & Radiated Power (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Band Edge Measurements	±4.70dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,20	Feb. 25,21
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,20	Feb. 25,21
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 26,20	Feb. 25,21
Horn Antenna (1GHz-18GHz)	ETS-LINDGREN	3117	00168692	Nov. 30, 19	Nov. 29, 20
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40 -K-SG/QMS-00 361		Nov. 21, 19	Nov. 20, 20
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 26,20	Feb. 25,21
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,20	Jun. 01,21
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 02,20	Jun. 01,21
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 30,20	Apr. 29,21
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	Feb. 26,20	Feb. 25,21
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SM A	1505	Jun. 03,20	Jun. 02,21
Power Meter	Anritsu	ML2495A	1506002	Feb. 26,20	Feb. 25,21
Power Sensor	Anritsu	MA2411B	1339352	Feb. 26,20	Feb. 25,21
Humid & Temp Programmable Tester	Juyi	ITH-120-45-CP -AR	IAA1504-001	Jun. 02,20	Jun. 01,21
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 26,20	Feb. 25,21
Power Divider	MCLI/USA	PS2-15	24880	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

- 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
- 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

EUT	Mobile Phone		
BRAND NAME	Sonim		
MODEL NAME	XP8800		
TYPE NUMBER	PG4032/PG4033/PG4034/PG403 PG4011/PG4061	35/PG4012/PG4041/PG4022/	
POWER SUPPLY	5/9Vdc (adapter or host equipmed 3.85Vdc (Li-ion, battery)	nt)	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM, 64QAM	
	LTE Band 14 (Channel Bandwidth: 5MHz)	790.5MHz ~ 795.5 MHz	
	LTE Band 14 (Channel Bandwidth: 10MHz)	793 MHz	
FREQUENCY RANGE	LTE Band 26 (Channel Bandwidth: 1.4MHz)	814.7MHz ~ 823.3MHz	
FREQUENCY KANGE	LTE Band 26 (Channel Bandwidth: 3MHz)	815.5MHz ~ 822.5MHz	
	LTE Band 26 (Channel Bandwidth: 5MHz)	816.5MHz ~ 821.5MHz	
	LTE Band 26 (Channel Bandwidth: 10MHz)	819MHz	
	LTE Band 14 (Channel Bandwidth: 5MHz)	4M50W7D	
	LTE Band 14 (Channel Bandwidth: 10MHz)	8M99W7D	
EMISSION DESIGNATOR	LTE Band 26 (Channel Bandwidth: 1.4MHz)	1M09W7D	
	LTE Band 26 (Channel Bandwidth: 3MHz)	2M70G7D	
	LTE Band 26 (Channel Bandwidth: 5MHz)	4M50W7D	
	LTE Band 26 (Channel Bandwidth: 10MHz)	8M97W7D	

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	LTE Band 14 (Channel Bandwidth: 5MHz)	41.98 mw
	LTE Band 14 (Channel Bandwidth: 10MHz)	41.30 mw
MAX. ERP POWER	LTE Band 26 (Channel Bandwidth: 1.4MHz)	51.29 mw
MAX. ERP POWER	LTE Band 26 (Channel Bandwidth: 3MHz)	50.70 mw
	LTE Band 26 (Channel Bandwidth: 5MHz)	51.52 mw
	LTE Band 26 (Channel Bandwidth: 10MHz)	52.00 mw
ANTENNA TYPE	Fixed Internal antenna with -3dBi	gain
HW VERSION	Α	
SW VERSION	8A.0.0-00-10.0.0-00.34.01	
I/O PORTS	Refer to user's manual	

NOTE

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. The EUT was powered by the following adapter(original):

ADAPTER 1(original)	
BRAND:	Sonim
MODEL:	S42A02
INPUT:	AC 100-240V, 500mA
	DC 5V, 1500mA
OUTPUT:	DC 9V, 1500mA
	DC 12V,1100mA

ADAPTER 2(add)	
BRAND:	Sonim
MODEL:	S84A02
INPUT:	AC 100-240V, 750mA
	DC 5V, 3000mA
OUTPUT:	DC 9V, 2220mA
	DC 12V,1670mA

3. The EUT matched the following USB cables:

USB CABLE 1	
BRAND:	N/A
MODEL:	N/A
SIGNAL LINE:	1.5 METER

USB CABLE 2	
BRAND:	N/A
MODEL:	N/A
SIGNAL LINE:	1.0 METER

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4. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION		
LTE	1TX/1RX diversity		

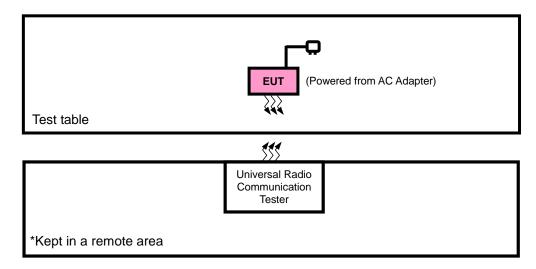
5. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

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2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST





2.3 DESCRIPTION OF SUPPORT UNITS

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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

NOTE:

2.4 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in ERP/EIRP and radiated emission was found when positioned on X-plane for LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
Α	EUT + Adapter + USB Cable with LTE link
В	EUT + Battery with LTE link

^{1.} All power cords of the above support units are non shielded (1.8m).



LTE BAND 14

,	EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	Λ	RADIATED	23305 to 23355	23330	5MHz	QPSK	1 RB / 0 RB Offset
	Α	EMISSION	23330	23330	10MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE BAND 26

CON	EUT NFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
			26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB / 0 RB Offset
	А	RADIATED EMISSION	26705 to 26775	26740	3MHz	QPSK	1 RB / 0 RB Offset
			26715 to 26765	26740	5MHz	QPSK	1 RB / 0 RB Offset
			26740	26740	10MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

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TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RADIATED EMISSION	23deg. C, 70%RH	DC 5/9V from adaptor	Jacky

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2 FCC 47 CFR Part 90 ANSI/TIA/EIA-603-D ANSI/TIA/EIA-603-E ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

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3 **TEST TYPES AND RESULTS**

3.1 RADIATED EMISSION MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to -13dBm

According to FCC part 90. 543(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

According to FCC part 90. 543 (f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna



that is representative of the type that will be used with the equipment in normal operation.

3.1.2 TEST PROCEDURES

- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

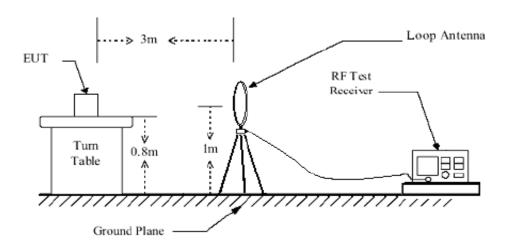
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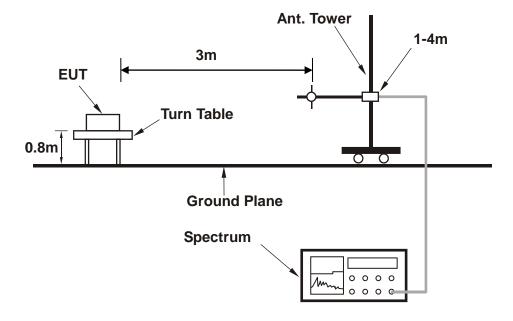


3.1.4 TEST SETUP

<Below 30MHz>



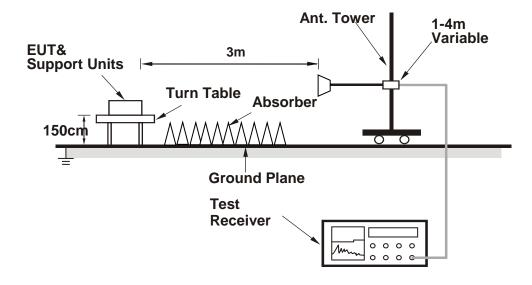
< Frequency Range 30MHz~1GHz >



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< Frequency Range above 1GHz >



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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3.1.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

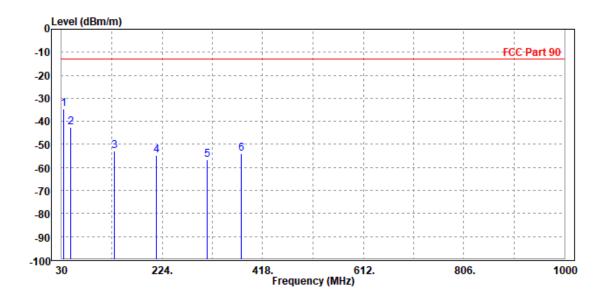
9 KHz – 30 MHz data: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz - 1GHz data:

LTE Band 14:

MODE	TX channel 23330	FREQUENCY RANGE	Below 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5/9V from adapter				
TESTED BY	Jacky Liu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

	Freq	Level	Read Level	Limit Line		Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	34.150	-34.48	-48.12	-13.00	-21.48	13.64	Peak	Horizontal
2	47.110	-42.58	-48.35	-13.00	-29.58	5.77	Peak	Horizontal
3	132.150	-52.81	-35.89	-13.00	-39.81	-16.92	Peak	Horizontal
4	212.360	-54.65	-37.65	-13.00	-41.65	-17.00	Peak	Horizontal
5	311.260	-56.69	-43.26	-13.00	-43.69	-13.43	Peak	Horizontal
6	376.260	-53.84	-42.59	-13.00	-40.84	-11.25	Peak	Horizontal

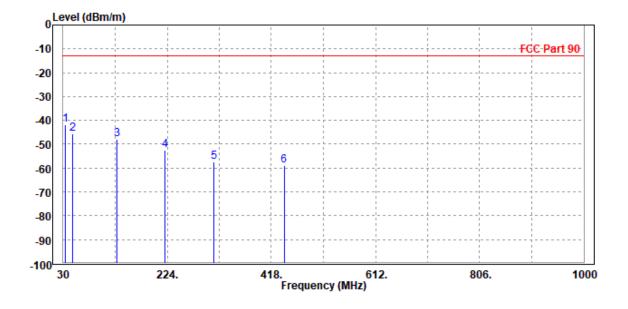


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MODE	ODE TX channel 23330 FREQUENCY RANGE		Below 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5/9V from adapter			
TESTED BY	Jacky Liu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
_								
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	34.150	-41.84	-41.65	-13.00	-28.84	-0.19	Peak	Vertical
2	47.210	-45.52	-41.66	-13.00	-32.52	-3.86	Peak	Vertical
3	130.260	-47.84	-36.58	-13.00	-34.84	-11.26	Peak	Vertical
4	219.220	-52.63	-41.65	-13.00	-39.63	-10.98	Peak	Vertical
5	310.260	-57.52	-46.26	-13.00	-44.52	-11.26	Peak	Vertical
6	441.680	-59.08	-49.68	-13.00	-46.08	-9.40	Peak	Vertical



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BELOW 1GHz WORST-CASE DATA

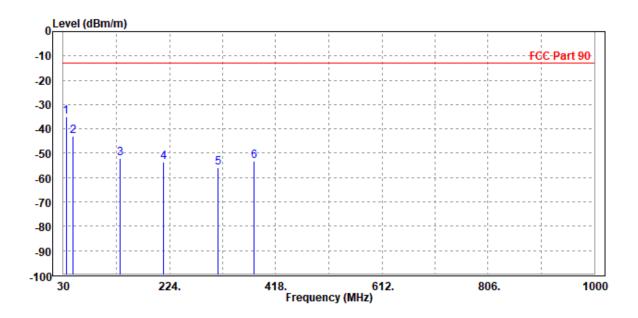
9 KHz – 30 MHz data: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz - 1GHz data

LTE Band 26:

MODE	TX channel 26740	FREQUENCY RANGE	Below 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5/9V from adapter				
TESTED BY	Jacky Liu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	35.120	-35.16	-47.62	-13.00	-22.16	12.46	Peak	Horizontal
2	48.160	-42.86	-47.66	-13.00	-29.86	4.80	Peak	Horizontal
3	133.260	-52.23	-34.98	-13.00	-39.23	-17.25	Peak	Horizontal
4	213.360	-53.75	-36.77	-13.00	-40.75	-16.98	Peak	Horizontal
5	312.680	-56.07	-42.69	-13.00	-43.07	-13.38	Peak	Horizontal
6	378.410	-53.16	-41.98	-13.00	-40.16	-11.18	Peak	Horizontal

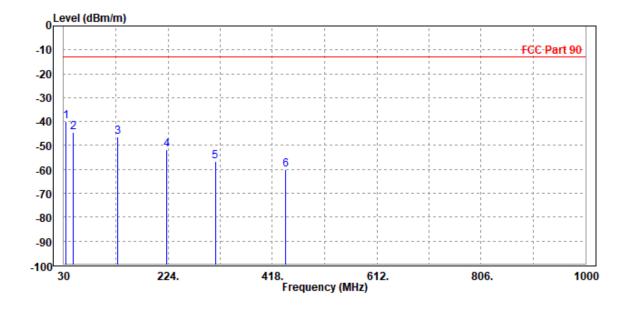


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MODE	TX channel 26740	FREQUENCY RANGE	Below 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5/9V from adapter			
TESTED BY	Jacky Liu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	33.450	-39.91	-40.65	-13.00	-26.91	0.74	Peak	Vertical
2	46.990	-44.37	-40.58	-13.00	-31.37	-3.79	Peak	Vertical
3	129.754	-46.47	-35.28	-13.00	-33.47	-11.19	Peak	Vertical
4	220.980	-51.78	-40.77	-13.00	-38.78	-11.01	Peak	Vertical
5	311.740	-56.51	-45.26	-13.00	-43.51	-11.25	Peak	Vertical
6	442.680	-60.11	-50.75	-13.00	-47.11	-9.36	Peak	Vertical



ABOVE 1GHz DATA

Note: For higher frequency, the emission is too low to be detected.

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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Shenzhen EMC/RF Lab:

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Email: customerservice.sw@cn.bureauveritas.com

Web Site: www.cps.bureauveritas.com

The address and road map of all our labs can be found in our web site also.

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MODIFICATIONS **RECORDERS** 6 APPENDIX **FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.

---END---

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