



FCC TEST REPORT (PART 27)

Applicant:	Fibocom Wireless Inc.				
Address:	5/F, Tower A, Technology Building II, 1057 Nanhai Avenue, Shenzhen, China				
Manufacturer or Supplier:	Fibocom Wireless Inc.				
Address:	5/F, Tower A, Technology Building	II, 1057 Nanhai Avenue, Shenzhen, China			
Product:	LTE Module				
Brand Name:	Fibocom				
Model Name:	L860-GL				
FCC ID:	ZMOL860GLD				
Date of tests:	Mar. 19, 2019 ~ Apr. 08, 2019				
The tests have bee	n carried out according to the requi	rements of the following standard:			
⊠ FCC Part 27, S ⊠ FCC Part 2		3- 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 Luke Lu Manager / Mobile Department					
7	Roger luke lu				
This report is governed by, and inc	ate: Apr. 08, 2018 orporates by reference, CPS Conditions of Service as posted at the property of the propert	Date: Apr. 08, 2018 the date of issuance of this report at			

This report is governed by, and incorporates by reference, CPS Conditions of service as posted at the date of insistence or in its legiont at the high power of the property o

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RELEASE CONTROL RECORD

ISSUE NO. REASON FOR CHANGE		DATE ISSUED	
RF190318W003-5	Original release	Apr. 08, 2019	



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 27 & Part 2						
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK			
2.1046 27.50(d)(4)	Maximum Peak Output Power	PASS	Meet the requirement of limit.			
2.1055 27.54	Frequency Stability	N/A	See Note			
2.1049 27.53(h)	Occupied Bandwidth	N/A	See Note			
27.50(d)(5)	Peak to average ratio	N/A	See Note			
27.53(h)	Band Edge Measurements	N/A	See Note			
2.1051 27.53(h)	Conducted Spurious Emissions	N/A	See Note			
2.1053 27.53(h)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -25.17dB at 5265MHz.			

Note: Please refer to test report SZEM180500437001.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY		
Maximum Peak Output Power	±1dB		
Frequency Stability	±39.27Hz		
Radiated emissions	±4.48dB		
Conducted emissions	±2 dB		
Occupied Channel Bandwidth	±21.7KHz		
Band Edge Measurements	±4.48dB		
Peak to average ratio	±0.76dB		

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. 26,19	Feb. 25,20
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,19	Feb. 25,20
Bilog Antenna 1	ETS-LINDGREN	3143B	00161964	Feb. 26,19	Feb. 25,20
Bilog Antenna 2	ETS-LINDGREN	3143B	00161965	Feb. 26,19	Feb. 25,20
Horn Antenna 1	ETS-LINDGREN	3117	00168728	Feb. 26,19	Feb. 25,20
Horn Antenna 2	ETS-LINDGREN	3117	00168692	Nov. 30, 18	Nov. 29, 19
Loop antenna	Daze	ZN30900A	0708	Oct. 23,18	Oct. 22, 19
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40 -K-SG/QMS-00 361	15433	Nov. 21, 18	Nov. 20, 19
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 26,19	Feb. 25,20
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jul. 09,18	Jul. 08,19
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jul. 09,18	Jul. 08,19
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jul. 09,18	Jul. 08,19
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	Feb. 26,19	Feb. 25,20
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	Jul. 09,18	Jul. 08,19
Power Meter	Anritsu	ML2495A	1506002	Feb. 26,19	Feb. 25,20
Power Sensor	Anritsu	MA2411B	1339352	Feb. 26,19	Feb. 25,20
Humid & Temp Programmable Tester	Juyi	ITH-120-45-CP -AR	IAA1504-001	Jul. 09,18	Jul. 08,19
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 26,19	Feb. 25,20

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.



GENERAL INFORMATION 2

2.1 GENERAL DESCRIPTION OF EUT

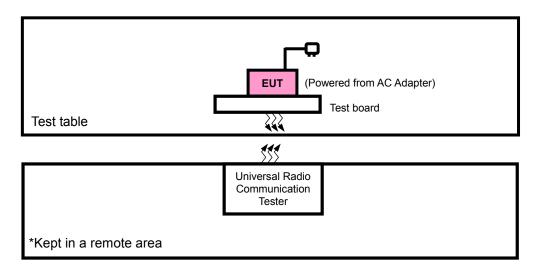
MODEL NAME L860-GL POWER SUPPLY DC 3.3V	QPSK, 16QAM, 64QAM			
POWER SUPPLY DC 3.3V	QPSK, 16QAM, 64QAM			
	QPSK, 16QAM, 64QAM			
MODULATION TECHNOLOGY	Q. 3.1, 13 Q, 3.1 Q			
LTE Band 66 Channel Band	width: 1.4MHz 1710.7MHz ~ 1779.3MHz			
LTE Band 66 Channel Band	width: 3MHz 1711.5MHz ~ 1778.5MHz			
FREQUENCY RANGE LTE Band 66 Channel Band	width: 5MHz 1712.5MHz ~ 1777.5MHz			
LTE Band 66 Channel Band	width: 10MHz 1715.0MHz ~ 1775.0MHz			
LTE Band 66 Channel Band	width: 15MHz 1717.5MHz ~ 1772.5MHz			
LTE Band 66 Channel Band	width: 20MHz 1720.0MHz ~ 1770.0MHz			
LTE Band 66 Channel Band	width: 1.4MHz 373mW			
LTE Band 66 Channel Band	width: 3MHz 367mW			
MAX. ERP/EIRP LTE Band 66 Channel Band	width: 5MHz 372mW			
POWER LTE Band 66 Channel Band	width: 10MHz 377mW			
LTE Band 66 Channel Band	width: 15MHz 371mW			
LTE Band 66 Channel Band	width: 20MHz 334mW			
ANTENNA TYPE External Antenr	External Antenna with 5dBi gain			
HW VERSION V1.2	V1.2			
SW VERSION 18600.5006.00.	18600.5006.00.31.00.02			
ACCESSORY DEVICE Refer to note as	Refer to note as below			
DATA CABLE N/A	N/A			

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

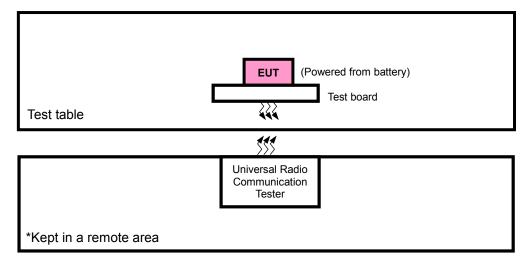


2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR CONDUCTED & E.R.P./E.I.R.P 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
2	PC	HP	A6608CN	3CR83825X3	N/A
3	Test board	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS		
1	DC Line: Unshielded, Detachable 1.0m		
2	AC Line: Unshielded, Detachable 1.5m		
3	N/A		

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
-	EUT with LTE link

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



LTE BAND 66

TEST ITEM	TEST ITEM AVAILABLE CHANNEL TEST		CHANNEL BANDWIDTH	MODULATION	MODE
	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
EIRP	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
EIRP	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
	131979 to 132665	132322	1.4MHz	QPSK	1 RB / 0 RB Offset
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK	1 RB / 0 RB Offset
RADIATED EMISSION	131997 to 132647	132322	5MHz	QPSK	1 RB / 0 RB Offset
	132022 to 132622	132322	10MHz	QPSK	1 RB / 0 RB Offset
	132047 to 132597	132322	15MHz	QPSK	1 RB / 0 RB Offset
	132072 to 132572	132322	20MHz	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.

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP(ERP)	24deg. C, 60%RH	DC 3.3V	Rose Ma
RADIATED EMISSION	23deg. C, 70%RH	DC 3.3V	Rose Ma



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 27 KDB 971168 D01 Power Meas License Digital Systems v03r01 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.

BV 7Layers Communications Technology



3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1780 MHz band are limited to 1 watt EIRP.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RBW and VBW is 10MHz for LTE.
- b. E.I.R.P power 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
- c. 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
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn
- e. E.R.P = E.I.R.P- 2.15 dB

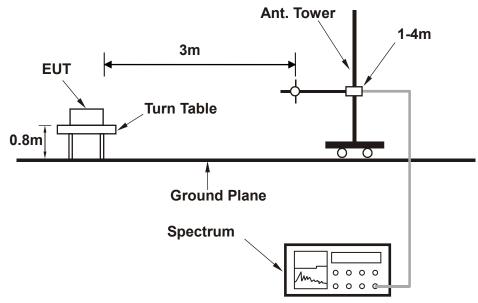
CONDUCTED POWER MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

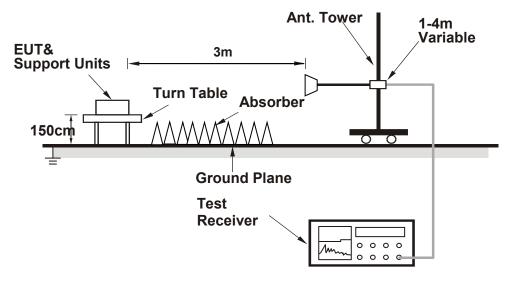


3.1.3 TEST SETUP

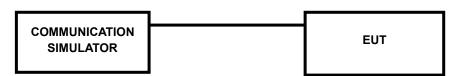
ERP MEASUREMENT:



EIRP MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo). **CONDUCTED POWER MEASUREMENT:**



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

Email: customerservice.dg@cn.bureauveritas.com



3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

				LTE Band 66			
BW	Modulation	RB	RB	Low CH 131979	Mid CH 132322	High CH 132665	MPR
DW	Modulation	Size	Offset	Frequency 1710.7 MHz	Frequency 1745 MHz	Frequency 1779.3 MHz	WIPK
		1	0	23.16	23.36	23.45	0
		1	2	23.11	23.31	23.40	0
		1	5	23.09	23.29	23.38	0
	QPSK	3	0	23.15	23.35	23.44	0
		3	1	23.10	23.30	23.39	0
		3	3	23.08	23.28	23.37	0
		6	0	22.05	22.25	22.34	1
		1	0	22.16	22.36	22.45	1
		1	2	22.12	22.32	22.41	1
		1	5	22.06	22.26	22.35	1
1.4MHz	16QAM	3	0	22.14	22.34	22.43	1
		3	1	22.10	22.30	22.39	1
		3	3	22.04	22.24	22.33	1
		6	0	21.03	21.23	21.32	2
		1	0	21.27	21.47	21.56	2
		1	2	21.22	21.42	21.51	2
		1	5	21.16	21.36	21.45	2
	64QAM	3	0	21.25	21.45	21.54	3
		3	1	21.20	21.40	21.49	3
		3	3	21.14	21.34	21.43	3
		6	0	20.06	20.26	20.35	3



				LTE Band 66			
BW	Modulation	RB	RB	Low CH 131987	Mid CH 132322	High CH 132657	MPR
DVV	Woddiation	Size	Offset	Frequency 1711.5 MHz	Frequency 1745 MHz	Frequency 1778.5 MHz	WIPK
		1	0	23.19	23.39	23.48	0
		1	7	23.14	23.34	23.43	0
		1	14	23.12	23.32	23.41	0
	QPSK	8	0	21.95	22.15	22.24	1
		8	3	21.92	22.12	22.21	1
		8	7	21.90	22.10	22.19	1
		15	0	22.08	22.28	22.37	1
		1	0	22.19	22.39	22.48	1
		1	7	22.15	22.35	22.44	1
		1	14	22.09	22.29	22.38	1
3 MHz	16QAM	8	0	21.05	21.25	21.34	2
		8	3	21.01	21.21	21.30	2
		8	7	20.98	21.18	21.27	2
		15	0	21.06	21.26	21.35	2
		1	0	21.30	21.50	21.59	2
		1	7	21.25	21.45	21.54	2
		1	14	21.19	21.39	21.48	2
	64QAM	8	0	20.51	20.71	20.80	3
		8	3	20.48	20.68	20.77	3
		8	7	20.49	20.69	20.78	3
		15	0	20.09	20.29	20.38	3



				LTE Band 66			
DIM	Modulation	RB	RB	Low CH 131997	Mid CH 132322	High CH 132647	мор
BW	Woddiation	Size	Offset	Frequency 1712.5 MHz	Frequency 1745 MHz	Frequency 1777.5 MHz	MPR
		1	0	23.22	23.42	23.51	0
		1	12	23.17	23.37	23.46	0
		1	24	23.15	23.35	23.44	0
	QPSK	12	0	21.98	22.18	22.27	1
		12	6	21.95	22.15	22.24	1
		12	13	21.93	22.13	22.22	1
		25	0	22.11	22.31	22.40	1
		1	0	22.22	22.42	22.51	1
		1	12	22.18	22.38	22.47	1
		1	24	22.12	22.32	22.41	1
5 MHz	16QAM	12	0	21.08	21.28	21.37	2
		12	6	21.04	21.24	21.33	2
		12	13	21.01	21.21	21.30	2
		25	0	21.09	21.29	21.38	2
		1	0	21.33	21.53	21.62	2
		1	12	21.28	21.48	21.57	2
		1	24	21.22	21.42	21.51	2
	64QAM	12	0	20.54	20.74	20.83	3
		12	6	20.51	20.71	20.80	3
		12	13	20.52	20.72	20.81	3
		25	0	20.12	20.32	20.41	3



				LTE Band 66			
D\A/	Modulation	RB	RB	Low CH 132022	Mid CH 132322	High CH 132622	мор
BW	Modulation	Size	Offset	Frequency 1715 MHz	Frequency 1745 MHz	Frequency 1775 MHz	MPR
		1	0	23.24	23.44	23.53	0
		1	24	23.19	23.39	23.48	0
		1	49	23.17	23.37	23.46	0
	QPSK	25	0	22.00	22.20	22.29	1
		25	12	21.97	22.17	22.26	1
		25	25	21.95	22.15	22.24	1
		50	0	22.13	22.33	22.42	1
	16QAM	1	0	22.24	22.44	22.53	1
		1	24	22.20	22.40	22.49	1
		1	49	22.14	22.34	22.43	1
10 MHz		25	0	21.10	21.30	21.39	2
		25	12	21.06	21.26	21.35	2
		25	25	21.03	21.23	21.32	2
		50	0	21.11	21.31	21.40	2
		1	0	21.35	21.55	21.64	2
		1	24	21.30	21.50	21.59	2
		1	49	21.24	21.44	21.53	2
	64QAM	25	0	20.56	20.76	20.85	3
		25	12	20.53	20.73	20.82	3
		25	25	20.54	20.74	20.83	3
		50	0	20.14	20.34	20.43	3



				LTE Band 66			
BW	Modulation	RB	RB	Low CH 132047	Mid CH 132322	High CH 132597	MPR
DW	Woddiation	Size	Offset	Frequency 1717.5 MHz	Frequency 1745 MHz	Frequency 1772.5 MHz	WIPK
		1	0	23.27	23.47	23.56	0
		1	37	23.22	23.42	23.51	0
		1	74	23.20	23.40	23.49	0
	QPSK	36	0	22.03	22.23	22.32	1
		36	19	22.00	22.20	22.29	1
		36	39	21.98	22.18	22.27	1
		75	0	22.16	22.36	22.45	1
		1	0	22.27	22.47	22.56	1
		1	37	22.23	22.43	22.52	1
		1	74	22.17	22.37	22.46	1
15 MHz	16QAM	36	0	21.13	21.33	21.42	2
		36	19	21.09	21.29	21.38	2
		36	39	21.06	21.26	21.35	2
		75	0	21.14	21.34	21.43	2
		1	0	21.38	21.58	21.67	2
		1	37	21.33	21.53	21.62	2
		1	74	21.27	21.47	21.56	2
	64QAM	36	0	20.59	20.79	20.88	3
		36	19	20.56	20.76	20.85	3
		36	39	20.57	20.77	20.86	3
		75	0	20.17	20.37	20.46	3



				LTE Band 66			
BW	Modulation	RB	RB	Low CH 132072	Mid CH 132322	High CH 132572	MPR
DVV	Woddiation	Size	Offset	Frequency 1720 MHz	Frequency 1745 MHz	Frequency 1770 MHz	WIPK
		1	0	23.32	23.52	23.61	0
		1	50	23.27	23.47	23.56	0
		1	99	23.25	23.45	23.54	0
	QPSK	50	0	22.08	22.28	22.37	1
		50	25	22.05	22.25	22.34	1
		50	50	22.03	22.23	22.32	1
		100	0	22.21	22.41	22.50	1
	16QAM	1	0	22.32	22.52	22.61	1
		1	50	22.28	22.48	22.57	1
		1	99	22.22	22.42	22.51	1
20 MHz		50	0	21.18	21.38	21.47	2
		50	25	21.14	21.34	21.43	2
		50	50	21.11	21.31	21.40	2
		100	0	21.19	21.39	21.48	2
		1	0	21.43	21.63	21.72	2
		1	50	21.38	21.58	21.67	2
		1	99	21.32	21.52	21.61	2
	64QAM	50	0	20.64	20.84	20.93	3
		50	25	20.61	20.81	20.90	3
		50	50	20.62	20.82	20.91	3
		100	0	20.22	20.42	20.51	3



EIRP

LTE BAND 66

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
131979	1710.7	-16.81	41.29	24.48	280.80	Н	1
132322	1745	-17.94	41.96	24.02	252.17	Н	1
132665	1779.3	-18.27	43.27	25.00	316.23	Н	1
131979	1710.7	-18.68	44.25	25.57	360.16	V	1
132322	1745.0	-18.17	43.88	25.71	372.56	V	1
132665	1779.3	-18.81	44.45	25.64	366.44	V	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
131979	1710.7	-17.68	41.29	23.61	229.83	Н	1
132322	1745	-18.87	41.96	23.09	203.56	Н	1
132665	1779.3	-19.23	43.27	24.04	253.51	Н	1
131979	1710.7	-19.55	44.25	24.70	294.78	V	1
132322	1745.0	-19.10	43.88	24.78	300.75	V	1
132665	1779.3	-19.77	44.45	24.68	293.76	V	1

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
131979	1710.7	-17.98	41.29	23.31	214.49	Н	1
132322	1745.0	-19.13	41.96	22.83	191.73	Н	1
132665	1779.3	-19.49	43.27	23.78	238.78	Н	1
131979	1710.7	-19.77	44.25	24.48	280.22	V	1
132322	1745.0	-19.23	43.88	24.65	291.88	V	1
132665	1779.3	-20.08	44.45	24.37	273.53	V	1



LTE BAND 66

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
131987	1711.5	-16.79	41.27	24.48	280.35	Н	1
132322	1745	-18.00	41.96	23.96	248.71	Н	1
132657	1778.5	-18.22	43.16	24.94	311.89	Н	1
131987	1711.5	-18.66	44.26	25.60	363.25	V	1
132322	1745.0	-18.23	43.88	25.65	367.45	V	1
132657	1778.5	-18.76	44.37	25.61	363.92	V	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
131987	1711.5	-17.86	41.27	23.41	219.13	Н	1
132322	1745	-18.89	41.96	23.07	202.63	Н	1
132657	1778.5	-19.21	43.16	23.95	248.31	Н	1
131987	1711.5	-19.73	44.26	24.53	283.92	V	1
132322	1745.0	-19.12	43.88	24.76	299.36	V	1
132657	1778.5	-19.75	44.37	24.62	289.73	V	1

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
131987	1711.5	-18.16	41.27	23.11	204.50	Н	1
132322	1745.0	-19.15	41.96	22.81	190.85	Н	1
132657	1778.5	-19.47	43.16	23.69	233.88	Н	1
131987	1711.5	-19.95	44.26	24.31	269.90	V	1
132322	1745.0	-19.25	43.88	24.63	290.54	V	1
132657	1778.5	-20.06	44.37	24.31	269.77	V	1



LTE BAND 66

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
131997	1712.5	-16.85	41.39	24.54	284.38	Н	1
132322	1745	-17.95	41.96	24.01	251.59	Н	1
132647	1777.5	-18.17	43.09	24.92	310.46	Н	1
131997	1712.5	-18.72	44.17	25.45	350.43	V	1
132322	1745.0	-18.18	43.88	25.70	371.71	V	1
132647	1777.5	-18.71	44.32	25.61	363.50	V	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
131997	1712.5	-17.68	41.39	23.71	234.91	Н	1
132322	1745	-18.97	41.96	22.99	198.93	Н	1
132647	1777.5	-19.27	43.09	23.82	240.99	Н	1
131997	1712.5	-19.55	44.17	24.62	289.47	V	1
132322	1745.0	-19.20	43.88	24.68	293.90	V	1
132647	1777.5	-19.81	44.32	24.51	282.16	V	1

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
131997	1712.5	-17.98	41.39	23.41	219.23	Н	1
132322	1745.0	-19.23	41.96	22.73	187.37	Н	1
132647	1777.5	-19.53	43.09	23.56	226.99	Н	1
131997	1712.5	-19.77	44.17	24.40	275.17	V	1
132322	1745.0	-19.33	43.88	24.55	285.23	V	1
132647	1777.5	-20.12	44.32	24.20	262.72	V	1



LTE BAND 66

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
132022	1715.0	-16.66	41.49	24.83	303.81	Н	1
132322	1745	-17.89	41.96	24.07	255.09	Н	1
132622	1775.0	-18.04	43.00	24.96	313.33	Н	1
132022	1715.0	-18.53	44.06	25.53	357.52	V	1
132322	1745.0	-18.12	43.88	25.76	376.88	V	1
132622	1775.0	-18.58	44.26	25.68	369.83	V	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
132022	1715.0	-17.81	41.49	23.68	233.13	Н	1
132322	1745	-18.99	41.96	22.97	198.02	Н	1
132622	1775.0	-19.20	43.00	23.80	239.88	Н	1
132022	1715.0	-19.68	44.06	24.38	274.35	V	1
132322	1745.0	-19.22	43.88	24.66	292.55	V	1
132622	1775.0	-19.74	44.26	24.52	283.14	V	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
132022	1715.0	-18.11	41.49	23.38	217.57	Н	1
132322	1745.0	-19.25	41.96	22.71	186.51	Н	1
132622	1775.0	-19.46	43.00	23.54	225.94	Н	1
132022	1715.0	-19.90	44.06	24.16	260.80	V	1
132322	1745.0	-19.35	43.88	24.53	283.92	V	1
132622	1775.0	-20.05	44.26	24.21	263.63	V	1



LTE BAND 66

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
132047	1717.5	-16.67	41.34	24.67	292.95	Н	1
132322	1745	-17.96	41.96	24.00	251.02	Н	1
132597	1772.5	-18.11	42.96	24.85	305.49	Н	1
132047	1717.5	-18.54	44.04	25.50	355.14	V	1
132322	1745.0	-18.19	43.88	25.69	370.85	V	1
132597	1772.5	-18.65	44.18	25.53	356.86	V	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
132047	1717.5	-17.53	41.34	23.81	240.33	Н	1
132322	1745	-18.83	41.96	23.13	205.45	Н	1
132597	1772.5	-18.96	42.96	24.00	251.19	Н	1
132047	1717.5	-19.40	44.04	24.64	291.34	V	1
132322	1745.0	-19.06	43.88	24.82	303.53	V	1
132597	1772.5	-19.50	44.18	24.68	293.43	V	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
132047	1717.5	-17.83	41.34	23.51	224.28	Н	1
132322	1745.0	-19.09	41.96	22.87	193.51	Н	1
132597	1772.5	-19.22	42.96	23.74	236.59	Н	1
132047	1717.5	-19.62	44.04	24.42	276.95	V	1
132322	1745.0	-19.19	43.88	24.69	294.58	V	1
132597	1772.5	-19.81	44.18	24.37	273.21	V	1



LTE BAND 66

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
132072	1720.0	-17.25	41.28	24.03	252.99	Н	1
132322	1745.0	-18.41	41.96	23.55	226.31	Н	1
132572	1770.0	-18.69	42.91	24.22	264.24	Н	1
132072	1720.0	-19.12	44.14	25.02	317.32	V	1
132322	1745.0	-18.64	43.88	25.24	334.35	V	1
132572	1770.0	-19.23	44.16	24.93	311.17	V	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
132072	1720.0	-18.18	41.28	23.10	204.22	Н	1
132322	1745.0	-19.48	41.96	22.48	176.89	Н	1
132572	1770.0	-19.52	42.91	23.39	218.27	Н	1
132072	1720.0	-20.05	44.14	24.09	256.15	V	1
132322	1745.0	-19.71	43.88	24.17	261.34	V	1
132572	1770.0	-20.06	44.16	24.10	257.04	V	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
132072	1720.0	-18.48	41.28	22.80	190.59	Н	1
132322	1745.0	-19.74	41.96	22.22	166.61	Н	1
132572	1770.0	-19.78	42.91	23.13	205.59	Н	1
132072	1720.0	-20.27	44.14	23.87	243.50	V	1
132322	1745.0	-19.84	43.88	24.04	253.63	V	1
132572	1770.0	-20.37	44.16	23.79	239.33	V	1

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).

^{2.} Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

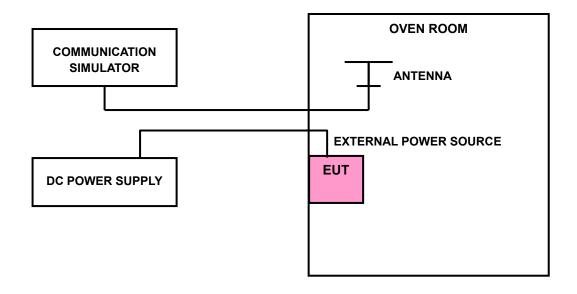
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}$ C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





3.2.4 TEST RESULTS

Please refer to section 8 of Appendix B in test report SZEM180500437001.

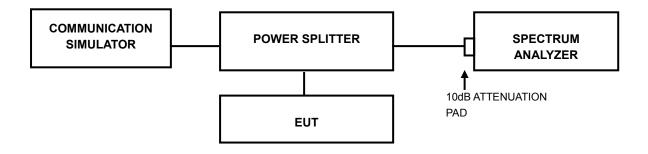


3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- a. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- b. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.4 TEST RESULTS

Please refer to section 4 of Appendix B in test report SZEM180500437001.

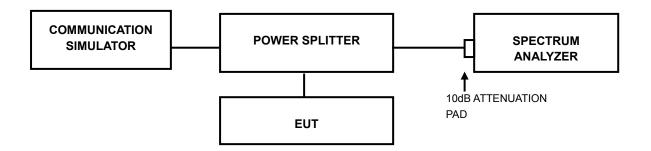


3.4 PEAK TO AVERAGE RATIO

3.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.

3.4.4 TEST RESULTS

Please refer to section 2 of Appendix B in test report SZEM180500437001.



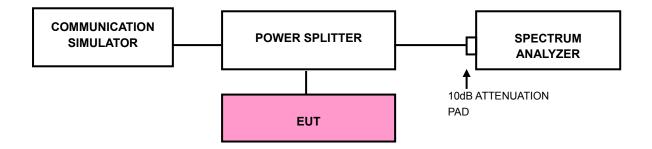
3.5 BAND EDGE MEASUREMENT

3.5.1 LIMITS OF BAND EDGE MEASUREMENT

The power of any emission outside a 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, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

3.5.2 TEST SETUP





3.5.3 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20kHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz)
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz)
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 50kHz and VBW of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 15MHz)
- h. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 20MHz)
- i. Record the max trace plot into the test report.

3.5.4 TEST RESULTS

Please refer to section 5 of Appendix B in test report SZEM180500437001.



3.6 CONDUCTED SPURIOUS EMISSIONS

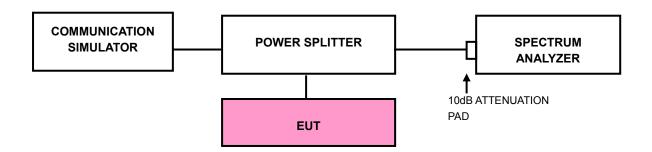
3.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

3.6.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at middle operational frequency range.
- b. Measuring frequency range is from 30 MHz to 17.8GHz for LTE Band 66. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

3.6.3 TEST SETUP



3.6.4 TEST RESULTS

Please refer to section 6 of Appendix B in test report SZEM180500437001.



3.7 RADIATED EMISSION MEASUREMENT

3.7.1 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

3.7.2 TEST PROCEDURES

- a. 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.

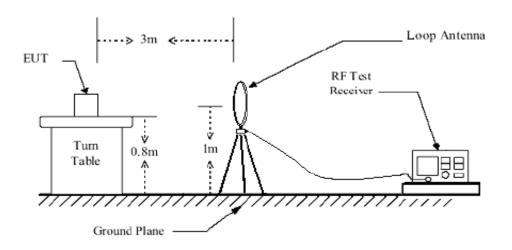
3.7.3 DEVIATION FROM TEST STANDARD

No deviation

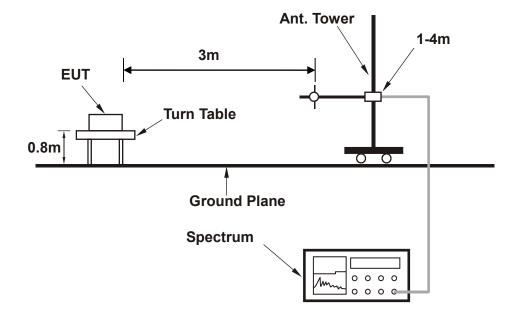


3.7.4 TEST SETUP

<Below 30MHz>

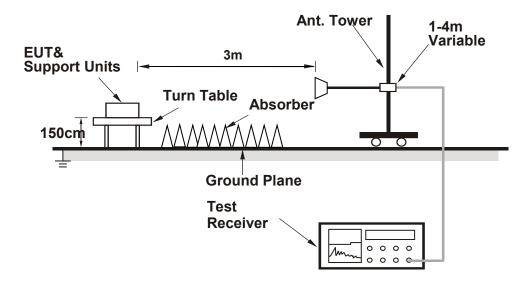


< Frequency Range 30MHz~1GHz >





< Frequency Range above 1GHz >



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



3.7.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

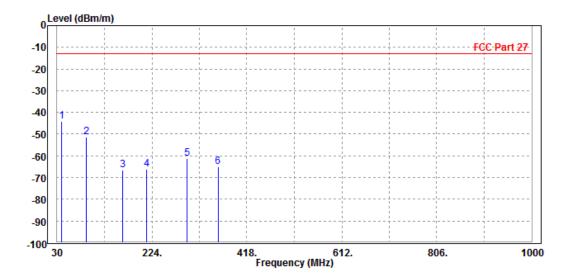
9 KHz – 30 MHz data: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz - 1GHz data:

LTE Band 66:

MODE	TX channel 132322	FREQUENCY RANGE	Below 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY Rose Ma						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

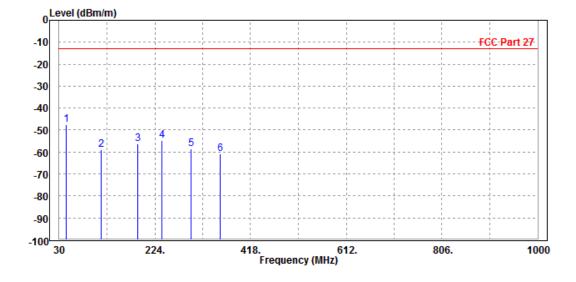
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	38.760	-44.26	-56.42	-13.00	-31.26	12.16	Peak	Horizontal
2	89.750	-51.35	-42.33	-13.00	-38.35	-9.02	Peak	Horizontal
3	164.260	-66.49	-48.17	-13.00	-53.49	-18.32	Peak	Horizontal
4	213.280	-66.07	-49.09	-13.00	-53.07	-16.98	Peak	Horizontal
5	296.390	-61.13	-47.14	-13.00	-48.13	-13.99	Peak	Horizontal
6	358.970	-65.09	-53.26	-13.00	-52.09	-11.83	Peak	Horizontal





MODE	TX channel 132322	FREQUENCY RANGE	Below 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V				
TESTED BY	Rose Ma						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

			Read					
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
		u.z,	45	u.b,	45	u.,		
1 PP	43.580	-47.67	-45.03	-13.00	-34.67	-2.64	Peak	Vertical
2	114.750	-58.98	-46.36	-13.00	-45.98	-12.62	Peak	Vertical
3	189.570	-56.15	-44.19	-13.00	-43.15	-11.96	Peak	Vertical
4	238.740	-54.58	-43.26	-13.00	-41.58	-11.32	Peak	Vertical
5	297.370	-58.53	-47.22	-13.00	-45.53	-11.31	Peak	Vertical
6	356.480	-60.74	-49.65	-13.00	-47.74	-11.09	Peak	Vertical





ABOVE 1GHz

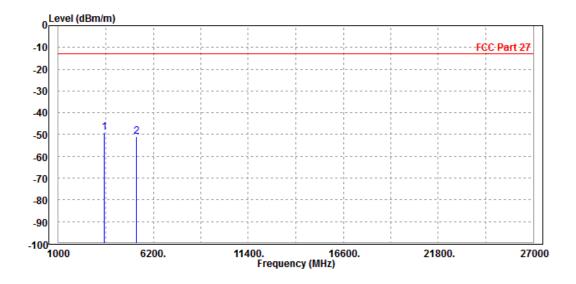
Note: For higher frequency, the emission is too low to be detected.

LTE BAND 66

CHANNEL BANDWIDTH: 1.4MHz / QPSK

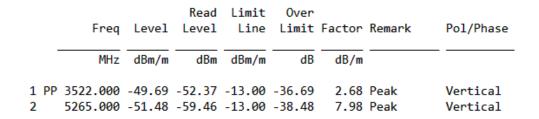
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V				
TESTED BY	Rose Ma						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

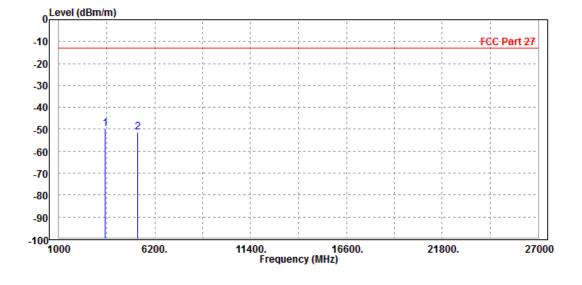
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
	3522.000 5265.000							Horizontal Horizontal





MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY	Rose Ma					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						



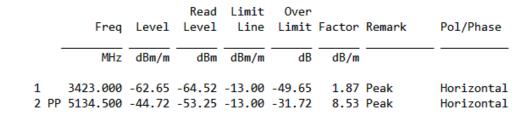


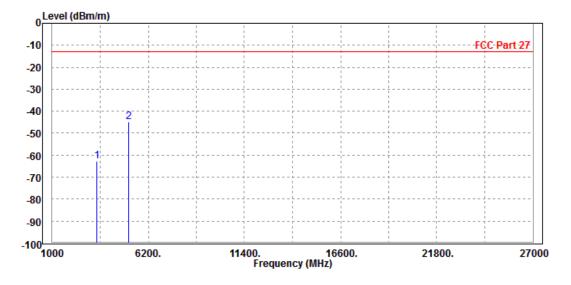


CHANNEL BANDWIDTH: 3MHz / QPSK

CH 131987

MODE	TX channel 131987	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V				
TESTED BY	Rose Ma						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							



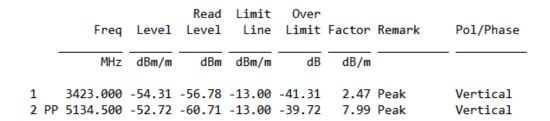


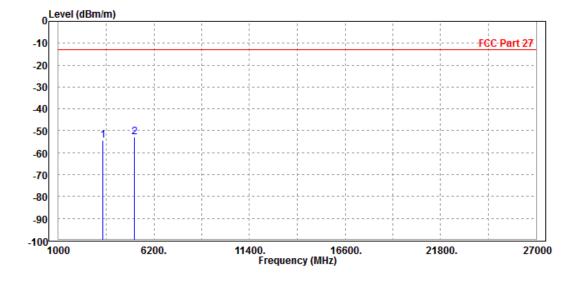
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Email: customerservice.dg@cn.bureauveritas.com



MODE	TX channel 131987	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY	Rose Ma					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						



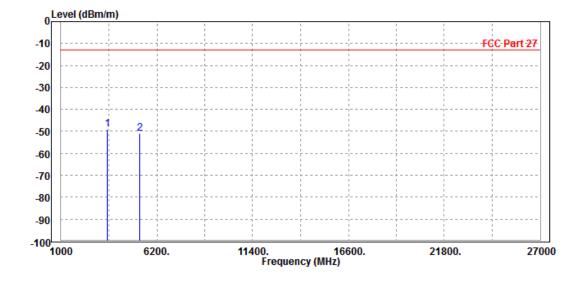




CH 132322

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY	Rose Ma					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 2	3522.000 5265.000							Horizontal Horizontal

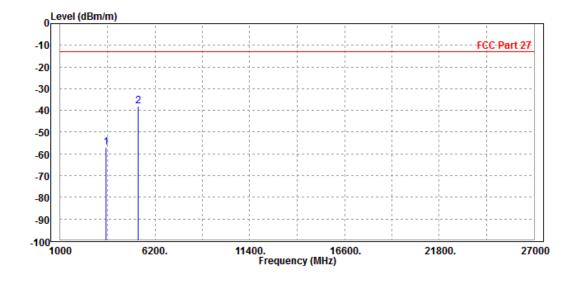


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MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V				
TESTED BY	Rose Ma						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

Freq	Level		Limit Line		Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 3522.000 2 PP 5265.000							Vertical Vertical



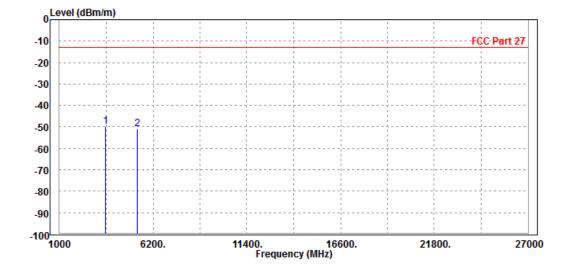
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CH 132657

MODE	TX channel 132657	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V				
TESTED BY	ESTED BY Rose Ma						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

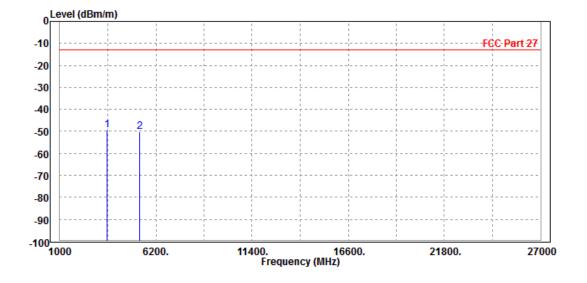
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		3557.000 5335.500							Horizontal Horizontal





MODE	TX channel 132657 FREQUENCY RANGE		Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V				
TESTED BY	D BY Rose Ma						
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 PI	9 3557.000 5335.500							Vertical Vertical

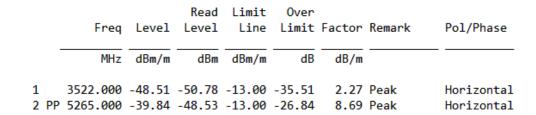


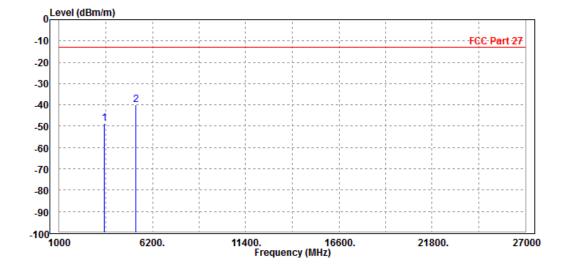
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CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 132322 FREQUENCY RANGE A		Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH INPUT POWER		DC 3.3V			
TESTED BY	Rose Ma					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

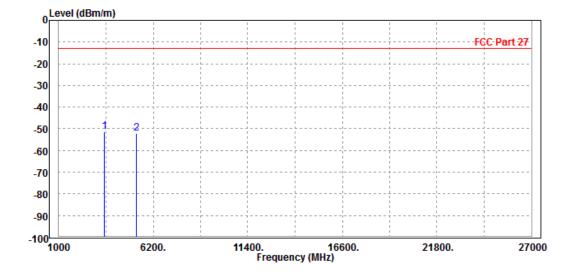






MODE	TX channel 132322 FREQUENCY RANGE		Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY	Rose Ma	Rose Ma				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level			Over Limit		Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PI	P 3522.000 5265.000							Vertical Vertical

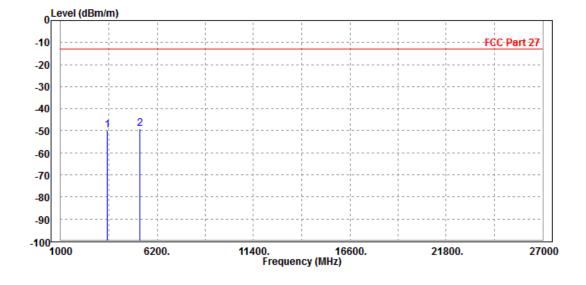




CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY	TESTED BY Rose Ma					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	——dB	dB/m		
_	3522.000 5265.000							Horizontal Horizontal

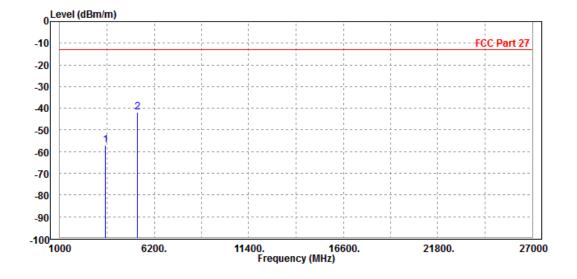


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MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY	TESTED BY Rose Ma					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

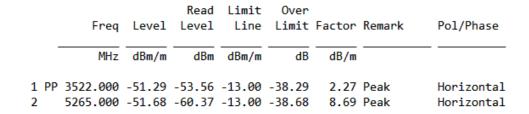
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	3522.000 5265.000							Vertical Vertical

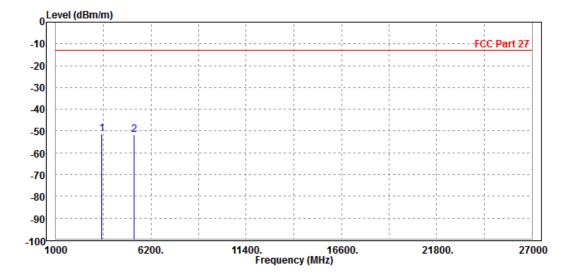




CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY	TESTED BY Rose Ma					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

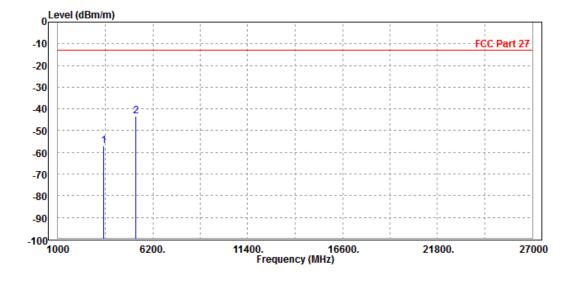






MODE	TX channel 132322 FREQUENCY RANGE		Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY	Rose Ma	Rose Ma				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

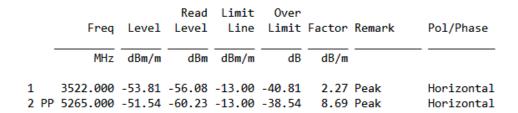
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	3522.000 5265.000							Vertical Vertical

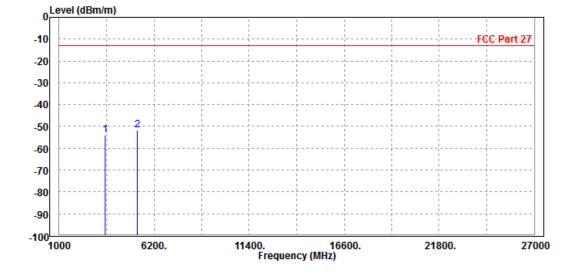




CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY	Rose Ma					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

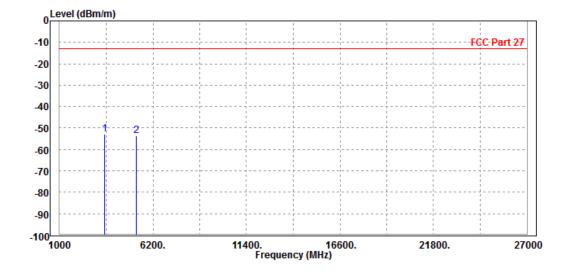






MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V			
TESTED BY	Rose Ma					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3522.000	-53.01	-55.69	-13.00	-40.01	2.68	Peak	Vertical
2	5265.000	-53.48	-61.46	-13.00	-40.48	7.98	Peak	Vertical



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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.

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Web Site: www.adt.com.tw

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

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BV 7Layers Communications Technology



5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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