





FCC TEST REPORT (PART 27)

Applicant:	Particle Industries,Inc				
Address:	325 9th Street, San Francisco, CA 94103, United States Of America				
Manufacturer or Supplier:	Particle Industries,Inc				
Address:	325 9th Street, San Francisco, CA	94103, United States Of America			
Product:	Montior One DE				
Brand Name:	Particle				
Model Name:	MON404-DE				
FCC ID:	2AEMI-MONEDE	2AEMI-MONEDE			
Date of tests:	Oct. 11, 2023 ~ Oct. 20, 2023				
The tests have be	en carried out according to the requi	rements of the following standard:			
	□ ANSI/TIA/EIA-603-D □ ANSI/TIA/EIA-603-E □ ANSI C	C63.26-2015			
CONCLUSION: T	he submitted sample was found to C	OMPLY with the test requirement			
	Prepared by Simon Wang Engineer / Mobile Department Approved by Luke Lu Manager / Mobile Department				
	Simon Wang Luke Lu				
	Date: Oct. 20, 2023	Date: Oct. 20, 2023			
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TABLE OF CONTENTS

R	ELEASE CONTROL RECORD	4
1	SUMMARY OF TEST RESULTS	5
	1.1 MEASREMENT UNCERTAINTY	6
	1.2 TEST SITE AND INSTRUMENTS	7
2	GENERAL INFORMATION	8
	2.1 GENERAL DESCRIPTION OF EUT	
	2.2 CONFIGURATION OF SYSTEM UNDER TEST	
	2.3 DESCRIPTION OF SUPPORT UNITS	
	2.4 TEST ITEM AND TEST CONFIGURATION	13
	2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	
3	TEST TYPES AND RESULTS	17
	3.1 OUTPUT POWER MEASUREMENT	17
	3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	
	3.1.2 TEST PROCEDURES	
	3.1.3 TEST SETUP	
	3.1.4 TEST RESULTS	
	3.2 FREQUENCY STABILITY MEASUREMENT	
	3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	
	3.2.2 TEST PROCEDURE	_
	3.2.3 TEST SETUP	
	3.2.4 TEST RESULTS	
	3.3 OCCUPIED BANDWIDTH MEASUREMENT	
	3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	
	3.3.2 TEST SETUP	33
	3.3.3 TEST PROCEDURES	33
	3.3.4 TEST RESULTS	
	3.4 BAND EDGE MEASUREMENT	
	3.4.1 LIMITS OF BAND EDGE MEASUREMENT	35
	3.4.2 TEST SETUP	36
	3.4.3 TEST PROCEDURES	37
	3.4.4 TEST RESULTS	
	3.5 CONDUCTED SPURIOUS EMISSIONS	
	3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	
	3.5.2 TEST PROCEDURE	
	3.5.3 TEST SETUP	
	3.5.4 TEST RESULTS	
	3.6 RADIATED EMISSION MEASUREMENT	
	3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT	
	3.6.2 TEST PROCEDURES	
	3.6.3 DEVIATION FROM TEST STANDARD	
	3.6.4 TEST SETUP	
	3.6.5 TEST RESULTS	
	3.7 PEAK TO AVERAGE RATIO	
	3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	
	3.7.2 TEST SETUP	
	3.7.3 TEST PROCEDURES	
	3.7.4 TEST RESULTS	
4	INFORMATION ON THE TESTING LABORATORIES	83



5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB... 84

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23100004RF03	Original release	Oct. 20, 2023



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		
§2.1046	Conducted Output Power	Compliance		
§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13)	Compliance		
§27.50(d)(4)	Equivalent Isotropically Radiated Power (Band 4)	Compliance		
§2.1055 §27.54	Frequency Stability	See Note		
§2.1049	Occupied Bandwidth	See Note		
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurements (Band 4) (Band 12) (Band 13)	See Note		
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Spurious Emissions (Band 4) (Band 12) (Band 13)	See Note		
§2.1053 §27.53(c)(2)(4) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emissions (Band 4) (Band 12) (Band 13)	Compliance		
NA	Peak to average ratio	See Note		

NOTE: Refer to Module report R2007A0435-R6, FCC ID:XMR201707BG96.



1.1 MEASREMENT 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
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
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.

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1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,23	Mar. 27,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,23	May.09,24
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.02,23	Sep.01,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,23	Feb. 17,24
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,23	Feb. 17,24
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.03, 23	Sep.02, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,23	Feb. 13,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,23	May. 05,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,23	May.09,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,23	Feb.16,24
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	May. 22, 23	May. 21,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,23	May. 05,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,23	Feb. 13,24
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,23	Feb. 13,24
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,23	May. 05,24
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,23	Feb. 13,24
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.10,23	May.09,24
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36 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

PRODUCT	Montior One DE			
BRAND NAME	Particle			
MODEL NAME	MON404-DE			
NOMINAL VOLTAGE	24Vdc(adapter or host equipment) 3.7Vdc (Li-ion, battery)			
MODULATION TECHNOLOGY	LTE CAT-M1 QPSK, 16QAM			
	LTE Band 4 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1754.3MHz		
	LTE Band 4 Channel Bandwidth: 3MHz	1711.5MHz ~ 1753.5MHz		
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~ 1752.5MHz		
	LTE Band 4 Channel Bandwidth: 10MHz	1715MHz ~ 1750MHz		
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5 MHz		
EDECLIENCY DANCE	LTE Band 4 Channel Bandwidth: 20MHz	1720MHz ~ 1745MHz		
FREQUENCY RANGE	LTE Band 12 Channel Bandwidth: 1.4MHz	699.7MHz ~ 715.3MHz		
	LTE Band 12 Channel Bandwidth: 3MHz	700.5MHz ~ 714.5MHz		
	LTE Band 12 Channel Bandwidth: 5MHz	701.5MHz ~ 713.5MHz		
	LTE Band 12 Channel Bandwidth: 10MHz	704MHz ~ 711MHz		
	LTE Band 13 Channel Bandwidth: 5MHz	779.5MHz ~ 784.5MHz		
	LTE Band 13 Channel Bandwidth: 10MHz	782MHz		
	LTE Band 4 Channel Bandwidth: 1.4MHz	378.44mW		
	LTE Band 4 Channel Bandwidth: 3MHz	369.83mW		
MAX. EIRP POWER	LTE Band 4 Channel Bandwidth: 5MHz	376.7mW		
	LTE Band 4 Channel Bandwidth: 10MHz	379.31mW		
	LTE Band 4 Channel Bandwidth: 15MHz	374.11mW		

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	LTE Band 4 Channel Bandwidth: 20MHz	381.94mW
	LTE Band 12 Channel Bandwidth: 1.4MHz	167.11mW
	LTE Band 12 Channel Bandwidth: 3MHz	166.34mW
MAX. EIRP POWER	LTE Band 12 Channel Bandwidth: 5MHz	168.27mW
	LTE Band 12 Channel Bandwidth: 10MHz	169.82mW
	LTE Band 13 Channel Bandwidth: 5MHz	187.07mW
	LTE Band 13 Channel Bandwidth: 10MHz	187.93mW
		QPSK: 1M12G7D
	LTE Band 4 Channel Bandwidth: 1.4MHz	16QAM: 939KW7D
	Chainer Bandwidth. 1.4Whiz	64QAM: /
		QPSK: 1M15G7D
	LTE Band 4 Channel Bandwidth: 3MHz	16QAM: 981KW7D
	Chamer Bandwidth. 3Whiz	64QAM: /
	LTE David 4	QPSK: 1M13G7D
	LTE Band 4 Channel Bandwidth: 5MHz	16QAM: 1M02W7D
		64QAM: /
		QPSK: 1M18G7D
	LTE Band 4 Channel Bandwidth: 10MHz	16QAM: 1M07W7D
		64QAM: /
EMISSION DESIGNATOR		QPSK: 1M20G7D
	LTE Band 4 Channel Bandwidth: 15MHz	16QAM: 1M06W7D
		64QAM: /
		QPSK: 1M21G7D
	LTE Band 4 Channel Bandwidth: 20MHz	16QAM: 1M11W7D
		64QAM: /
	LTE Band 12 Channel Bandwidth: 1.4MHz	QPSK: 1M11G7D
		16QAM: 939KW7D
		64QAM: /

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		QPSK: 1M15G7D	
	LTE Band 12 Channel Bandwidth: 3MHz	16QAM: 985KW7D	
		64QAM: /	
		QPSK: 1M14G7D	
	LTE Band 12 Channel Bandwidth: 5MHz	16QAM: 976KW7D	
		64QAM: /	
		QPSK: 1M21G7D	
EMISSION DESIGNATOR	LTE Band 12 Channel Bandwidth: 10MHz	16QAM: 1M08W7D	
		64QAM: /	
	LTE Band 13 Channel Bandwidth: 5MHz	QPSK: 1M15G7D	
		16QAM: 977KW7D	
	Onamor Banawath. Omiz	64QAM: /	
	LTE Band 13 Channel Bandwidth: 10MHz	QPSK: 1M18G7D	
		16QAM: 1M03W7D	
		64QAM: /	
	Fixed External Antenna with 3.47dBi gain for LTE B4		
ANTENNA TYPE	Fixed External Antenna with 1.7dBi gain for LTE B12		
HW VERSION	Fixed External Antenna with 1.7dBi gain for LTE B13 v1.2.0		
SW VERSION			
I/O PORTS	v4.0.2 Refer to user's manual		
I/O FOR IS		th w/s formits come 4 5 mosts:	
CABLE SUPPLIED	Cable 1: non-shielded cable, with w/o ferrite core, 1.5 meter Cable 2: non-shielded cable, with w/o ferrite core, 1.5 meter		
EXTREME TEMPERATURE	-10~60 ℃		
EXTREME VOLTAGE	3.6V - 4.2V		

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION	
LTE	1TX/1RX	

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



List of Accessory:

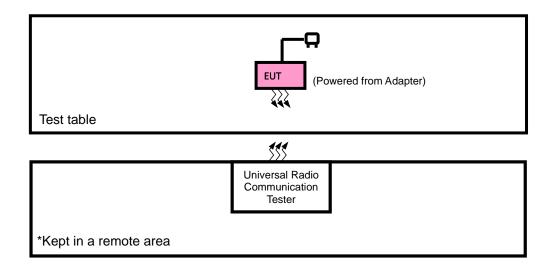
ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	Guangdong Zhaoneng	Guangdong Zhaoneng	ZN18650-4P	Capacity: 3.7Vdc, 12200mAh
AC Adapter	TRI-MAG	TRI-MAG LLC	L6R30-240	I/P: 100-240Vac, 0.8A, O/P: 24Vdc, 1.25A
Cable 1	KAWEEI	KAWEEI technology	CBH-M12M-04 -1500	Signal Line,1.5meter
Cable 2	KAWEEI	KAWEEI technology	115-00014 CBH-M12M-08 -1500	Signal Line,1.5meter

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2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



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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	Adapter	Jingsai	CLS-050200	NA	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

2.4 TEST ITEM AND TEST CONFIGURATION

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 was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
Α	EUT + Adapter with LTE link

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LTE BAND 4 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
		19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
	EIRP	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
Α		20000 to 20350	20000, 20175, 20350	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK,16QAM	1 RB / 0 RB Offset
		19957 to 20393	20175	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	20175	3MHz	QPSK	1 RB / 0 RB Offset
	RADIATED	19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
Α	EMISSION	20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20175	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20175	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.

LTE BAND 12 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	ERP	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
Α		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23017 to 23173	23017, 23095 ,23173	1.4MHz	QPSK	1 RB / 0 RB Offset
	RADIATED EMISSION	23025 to 23165	23095	3MHz	QPSK	1 RB / 0 RB Offset
A		23035 to 23155	23095	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23095	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 13 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
Α		23230	23230	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
^	RADIATED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB / 0 RB Offset
Α	EMISSION	23230	23230	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.



TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 24V By Adapter	Jace Hu
RADIATED EMISSION	23deg. C, 70%RH	DC 24V By Adapter	Jace Hu



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.



3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

47 CFR 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695–1710 MHz and 1755–1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710–1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

47 CFR 27.50(c)(10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

47 CFR 27.50(b)(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP or EIRP = $P_{Meas} + G_{T} - L_{C}$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

 G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Lc = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

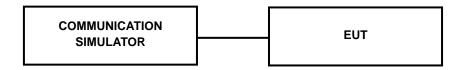
CONDUCTED POWER MEASUREMENT:

- 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

CONDUCTED POWER MEASUREMENT:



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



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

LTE Band 4

Band/BW	Modulation	RB Siz	RB	Low CH 19957	Mid CH 20175	High CH 20393
		e	Offset	Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz
		1	0	22.08	22.01	22.16
		1	5	21.88	21.92	22.22
	QPSK	3	0	22.06	21.84	22.13
		3	3	21.87	21.92	22.13
4/ 1.4		6	0	21.87	21.80	22.11
4/ 1.4		1	0	21.94	21.67	22.05
		1	5	22.11	21.93	22.24
	16QAM	3	0	22.02	21.80	22.13
		3	3	22.09	21.91	22.31
		5	0	22.11	22.02	22.16

Band/BW	Modulation	RB Siz	RB	Low CH 19965	Mid CH 20175	High CH 20385
		e	Offset	Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz
		1	0	22.02	21.98	22.16
		1	5	21.93	21.82	22.14
	QPSK	3	0	22.07	21.78	22.21
		3	3	21.93	21.90	22.18
4/ 3		6	0	21.90	21.74	22.10
4/ 3		1	0	22.02	21.77	22.04
		1	5	22.01	21.86	22.18
	16QAM	3	0	22.06	21.94	22.13
		3	3	22.12	21.96	22.30
		5	0	22.08	21.90	22.25



Band/BW	Modulation	RB Siz	RB	Low CH 19975	Mid CH 20175	High CH 20375
		5 e	Offset	Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz
		1	0	22.00	21.90	22.13
		1	5	22.02	21.85	22.20
	QPSK	3	0	21.98	21.89	22.19
		3	3	22.00	21.90	22.10
4/5		6	0	21.85	21.69	22.02
4/ 5		1	0	21.99	21.74	22.11
		1	5	22.09	21.84	22.10
	16QAM	3	0	22.05	21.90	22.11
		3	3	22.06	22.03	22.29
		5	0	22.16	21.97	22.23

Band/BW	Modulation	RB Siz	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350
		e		Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz
		1	0	22.00	21.92	22.12
		1	5	21.99	21.91	22.14
	QPSK	3	0	22.06	21.89	22.21
		3	3	21.88	21.90	22.10
4/ 10		6	0	21.89	21.81	22.03
4/ 10		1	0	22.04	21.75	22.03
		1	5	22.03	21.98	22.24
	16QAM	3	0	21.98	21.85	22.18
		3	3	22.02	21.94	22.32
		5	0	22.09	21.90	22.20

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Band/BW	Modulation	RB Siz	RB	Low CH 20025	Mid CH 20175	High CH 20325
		5 e	Offset	Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz
		1	0	22.09	21.97	22.06
		1	5	21.95	21.86	22.13
	QPSK	3	0	21.99	21.87	22.10
		3	3	21.97	22.00	22.09
4/45		6	0	21.97	21.70	22.05
4/ 15		1	0	22.03	21.77	22.15
		1	5	22.11	21.92	22.13
	16QAM	3	0	21.95	21.90	22.16
		3	3	22.11	22.00	22.26
		5	0	22.14	21.92	22.17

Band/BW	Modulation	RB Siz	RB	Low CH 20050	Mid CH 20175	High CH 20300
		e e	Offset	Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz
		1	0	22.14	22.04	22.19
		1	5	22.03	21.94	22.25
	QPSK	3	0	22.11	21.91	22.25
		3	3	22.02	22.01	22.21
4/ 20		6	0	21.98	21.84	22.16
4/ 20		1	0	22.09	21.81	22.17
		1	5	22.13	21.99	22.25
	16QAM	3	0	22.09	21.95	22.21
		3	3	22.16	22.04	22.35
		5	0	22.21	22.04	22.26



LTE Band 12

LTL Dana	· <u> </u>					
Band/BW	Modulation	RB Siz	RB Offset	Low CH 23017	Mid CH 23095	High CH 23173
	Wodalation	e		Frequency 699.7 MHz	Frequency 707.5 MHz	Frequency 715.3 MHz
		1	0	22.40	22.68	22.47
		1	5	22.43	22.56	22.45
	QPSK	3	0	22.47	22.52	22.43
		3	3	22.42	22.46	22.29
12/ 1.4		6	0	22.55	22.65	22.51
12/ 1.4		1	0	22.53	22.64	22.53
		1	5	22.52	22.50	22.41
	16QAM	3	0	22.50	22.60	22.47
		3	3	22.49	22.52	22.44
		5	0	22.44	22.48	22.34

Band/BW	Modulation	RB Siz	RB Offset	Low CH 23025	Mid CH 23095	High CH 23165
Dana, Div	Wodalation	e		Frequency 700.5 MHz	Frequency 707.5 MHz	Frequency 714.5 MHz
		1	0	22.45	22.63	22.43
		1	5	22.42	22.66	22.42
	QPSK	3	0	22.51	22.51	22.38
		3	3	22.44	22.41	22.28
12/3		6	0	22.51	22.63	22.49
12/3		1	0	22.53	22.66	22.53
		1	5	22.60	22.57	22.52
	16QAM	3	0	22.42	22.63	22.38
		3	3	22.49	22.53	22.49
		5	0	22.49	22.57	22.40



Band/BW	Modulation	RB Siz e	RB Offset	Low CH 23035 Frequency 701.5 MHz	Mid CH 23095 Frequency 707.5 MHz	High CH 23155 Frequency 713.5 MHz
		1	0	22.46	22.63	22.43
		1	5	22.43	22.67	22.36
	QPSK	3	0	22.42	22.47	22.34
		3	3	22.34	22.45	22.39
40/5		6	0	22.55	22.71	22.59
12/5		1	0	22.48	22.61	22.56
		1	5	22.49	22.56	22.50
160	16QAM	3	0	22.43	22.55	22.43
		3	3	22.45	22.53	22.51
		5	0	22.38	22.53	22.45

Band/BW	Modulation	RB Siz e	RB Offset	Low CH 23060 Frequency 704 MHz	Mid CH 23095 Frequency 707.5 MHz	High CH 23130 Frequency 711 MHz
		1	0	22.54	22.71	22.57
		1	5	22.52	22.69	22.46
	QPSK	3	0	22.52	22.59	22.49
		3	3	22.45	22.51	22.41
12/ 10		6	0	22.65	22.75	22.61
12/10		1	0	22.60	22.67	22.62
		1	5	22.62	22.60	22.55
	16QAM	3	0	22.57	22.65	22.50
		3	3	22.51	22.62	22.56
		5	0	22.52	22.58	22.46



LTE Band 13

Band/BW	Modulation	RB Siz e	RB Offset	Low CH 23205 Frequency 779.5 MHz	Mid CH 23230 Frequency 782.0 MHz	High CH 23255 Frequency 784.5 MHz
		1	0	23.12	23.14	23.09
		1	5	22.96	23.04	23.01
	QPSK	3	0	23.03	22.94	22.94
		3	3	23.01	23.04	23.01
13/ 5		6	0	23.01	23.02	23.08
13/ 3		1	0	23.06	23.13	23.17
		1	5	23.01	23.03	22.95
10	16QAM	3	0	23.13	23.03	23.00
		3	3	23.02	23.00	23.06
		5	0	23.03	23.03	23.04

Band/BW	Modulation	RB Siz	RB Offset	I	Mid CH 23230	/
		е	Oliset	/	Frequency 782.0 MHz	/
	1	0	/	23.15	/	
		1	5	/	23.08	/
	QPSK	3	0	/	23.09	/
		3	3	/	23.09	/
13/ 10		6	0	/	23.10	/
13/10		1	0	/	23.19	/
		1	5	/	23.10	/
	16QAM	3	0	/	23.15	/
		3	3	/	23.11	/
		5	0	/	23.15	/



EIRP

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	22.08	3.47	25.55	358.92	1
20175	1732.5	22.01	3.47	25.48	353.18	1
20393	1754.3	22.22	3.47	25.69	370.68	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	22.11	3.47	25.58	361.41	1
20175	1732.5	22.02	3.47	25.49	354	1
20393	1754.3	22.31	3.47	25.78	378.44	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G⊤-Lc (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.07	3.47	25.54	358.1	1
20175	1732.5	21.98	3.47	25.45	350.75	1
20385	1753.5	22.21	3.47	25.68	369.83	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.12	3.47	25.59	362.24	1
20175	1732.5	22.12	3.47	25.59	362.24	1
20385	1753.5	22.12	3.47	25.59	362.24	1



CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G⊤-Lc (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	22.02	3.47	25.49	354	1
20175	1732.5	21.9	3.47	25.37	344.35	1
20375	1752.5	22.2	3.47	25.67	368.98	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	22.16	3.47	25.63	365.59	1
20175	1732.5	22.03	3.47	25.5	354.81	1
20375	1752.5	22.29	3.47	25.76	376.7	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	Gτ-Lc (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.06	3.47	25.53	357.27	1
20175	1732.5	21.92	3.47	25.39	345.94	1
20350	1750	22.21	3.47	25.68	369.83	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.09	3.47	25.56	359.75	1
20175	1732.5	21.98	3.47	25.45	350.75	1
20350	1750	22.32	3.47	25.79	379.31	1



CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G⊤-L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.09	3.47	25.56	359.75	1
20175	1732.5	22	3.47	25.47	352.37	1
20325	1747.5	22.13	3.47	25.6	363.08	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.14	3.47	25.61	363.92	1
20175	1732.5	22	3.47	25.47	352.37	1
20325	1747.5	22.26	3.47	25.73	374.11	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.14	3.47	25.61	363.92	1
20175	1732.5	22.04	3.47	25.51	355.63	1
20300	1745	22.25	3.47	25.72	373.25	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.21	3.47	25.68	369.83	1
20175	1732.5	22.04	3.47	25.51	355.63	1
20300	1745	22.35	3.47	25.82	381.94	1



LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	22.55	1.7	22.1	162.18	3
23095	707.5	22.68	1.7	22.23	167.11	3
23173	715.3	22.51	1.7	22.06	160.69	3

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	22.53	1.7	22.08	161.44	3
23095	707.5	22.64	1.7	22.19	165.58	3
23173	715.3	22.53	1.7	22.08	161.44	3

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G⊤-Lc (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	22.51	1.7	22.06	160.69	3
23095	707.5	22.66	1.7	22.21	166.34	3
23165	714.5	22.49	1.7	22.04	159.96	3

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	22.6	1.7	22.15	164.06	3
23095	707.5	22.66	1.7	22.21	166.34	3
23165	714.5	22.53	1.7	22.08	161.44	3



CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G⊤-L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	22.55	1.7	22.1	162.18	3
23095	707.5	22.71	1.7	22.26	168.27	3
23155	713.5	22.59	1.7	22.14	163.68	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	22.49	1.7	22.04	159.96	3
23095	707.5	22.61	1.7	22.16	164.44	3
23155	713.5	22.56	1.7	22.11	162.55	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	22.65	1.7	22.2	165.96	3
23095	707.5	22.75	1.7	22.3	169.82	3
23130	711	22.61	1.7	22.16	164.44	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	22.62	1.7	22.17	164.82	3
23095	707.5	22.67	1.7	22.22	166.72	3
23130	711	22.62	1.7	22.17	164.82	3

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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LTE BAND 13

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	23.12	1.7	22.67	184.93	3
23230	782	23.14	1.7	22.69	185.78	3
23255	784.5	23.09	1.7	22.64	183.65	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	23.13	1.7	22.68	185.35	3
23230	782	23.13	1.7	22.68	185.35	3
23255	784.5	23.17	1.7	22.72	187.07	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G⊤-Lc (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	23.15	1.7	22.7	186.21	3
-	-	-	-	-	-	-

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G⊤-Lc (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	23.19	1.7	22.74	187.93	3
-	-	-	-	-	-	-

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

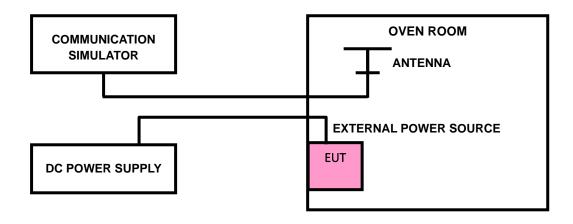
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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 ± 0.5 °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 Module report R2007A0435-R6.

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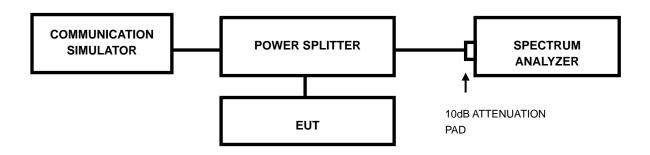


3.3 OCCUPIED BANDWIDTH MEASUREMENT

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 Module report R2007A0435-R6.



3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, 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. 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.

According to FCC 27.53(h) specified that For operations in the 1710-1755 MHz band, 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. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

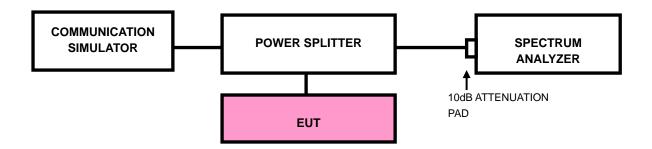
47 CFR 27.53(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) 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 at least 30 kHz may be employed;



(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) 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.

3.4.2 TEST SETUP





3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW)
- d) .Set the resolution bandwidth (RBW) \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to $\ge 3 \times RBW$.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to \geq 1001.
- i) Use auto-coupled sweep time.
- i) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- I) Record the max trace plot into the test report.



3.4.4 **TEST RESULTS**

Please Refer to Module report R2007A0435-R6.

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3.5 CONDUCTED SPURIOUS EMISSIONS

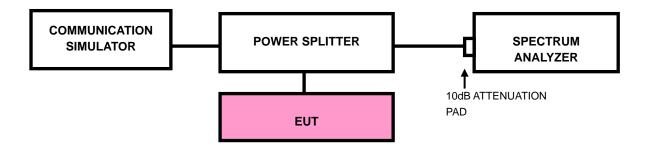
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$. The emission limit equal to -13dBm.

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP



3.5.4 TEST RESULTS

NOTE: The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Module report R2007A0435-R6.



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to –13dBm. 47 CFR 27.53(f):

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions 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.

3.6.2 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.

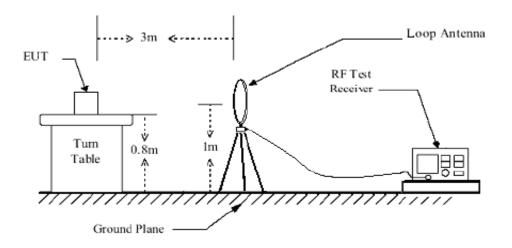
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

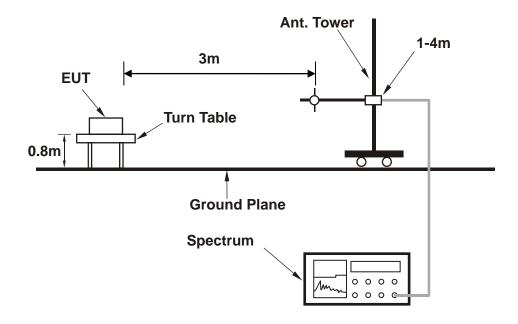


3.6.4 TEST SETUP

< Frequency Range below 30MHz >

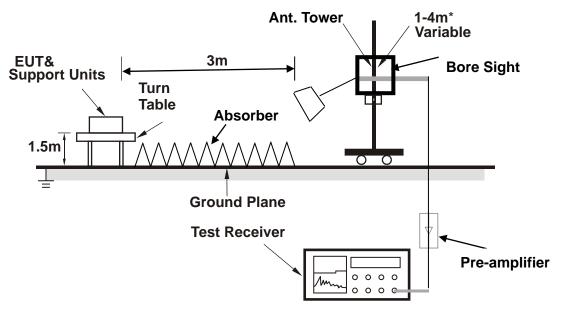


< Frequency Range 30MHz~1GHz >





<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

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3.6.5 TEST RESULTS

NOTE: The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

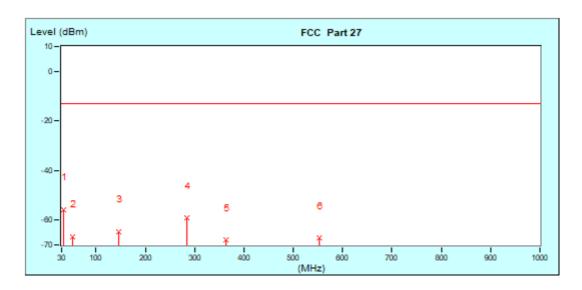
30 MHz - 1GHz data:

LTE Band 13

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 23230	FREQUENCY RANGE	Below 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu	ace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
		MHz	dB	dBm	dBm	dBm	dB	cm	deg
•	1	33.11	-1.74	-54.06	-55.80	-13.00	-42.80	100	0
	2	51.76	-12.58	-54.04	-68.62	-13.00	-53.62	100	0
	3	145.03	-7.29	-57.28	-84.57	-13.00	-51.57	100	0
	4	283.38	-7.01	-52.04	-59.05	-13.00	-48.05	100	0
	5	364.21	-5.09	-62.86	-87.95	-13.00	-54.95	100	0
	6	552.31	-0.60	-66.60	-87.20	-13.00	-54.20	100	0

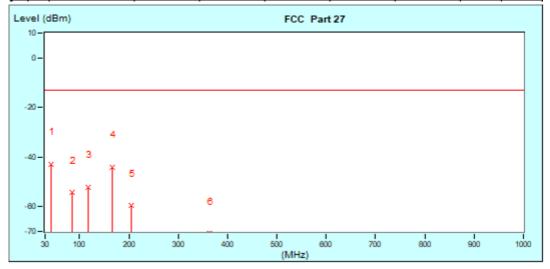


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MODE	TX channel 23230	FREQUENCY RANGE	Below 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ					
TESTED BY Jace Hu								
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
·	1	42.44	-8.32	-34.54	-42.86	-13.00	-29.86	100	0
Г	2	84.41	-12.71	-41.55	-54.26	-13.00	-41.26	100	0
Г	3	117.05	-6.99	-45.06	-52.05	-13.00	-39.05	100	0
Г	4	165.24	-8.25	-35.81	-44.06	-13.00	-31.06	100	0
	5	205.66	-7.27	-52.21	-59.48	-13.00	-46.48	100	0
	6	364.21	-5.09	-85.77	-70.86	-13.00	-57.86	100	0





ABOVE 1GHz

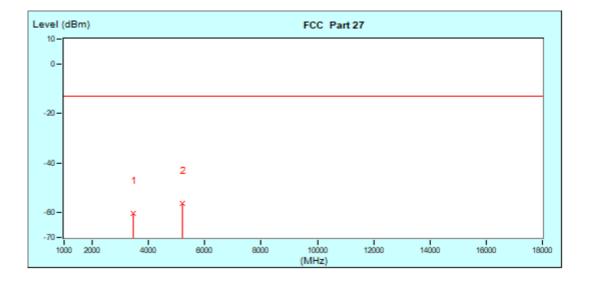
Note: For higher frequency, the emission is too low to be detected.

LTE Band 4

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

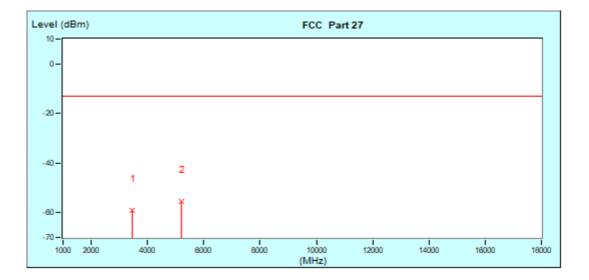
N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3465.00 (PK)	-9.27	-50.92	-60.19	-13.00	-47.19	100	0
•	2	5197.50 (PK)	-3.92	-52.19	-56.11	-13.00	-43.11	100	0





MODE	TX channel 20175 FREQUENCY RANGE Above 1000M		Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY Jace Hu							
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3465.00 (PK)	-9.27	-49.84	-59.11	-13.00	-48.11	100	0
-	2	5197.50 (PK)	-3.92	-51.58	-55.50	-13.00	-42.50	100	0

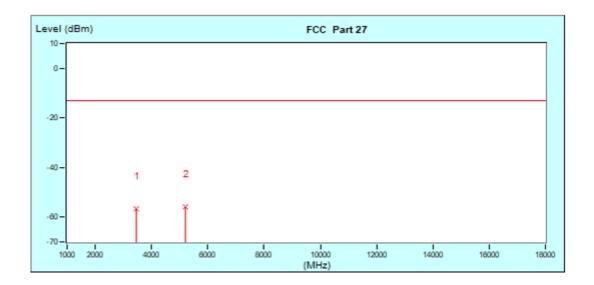




CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	23deg. C, 70%RH INPUT POWER AC 120V/60HZ Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3465.00 (PK)	-9.27	-47.30	-56.57	-13.00	-43.57	100	0
•	2	5197.50 (PK)	-3.92	-51.86	-55.78	-13.00	-42.78	100	0

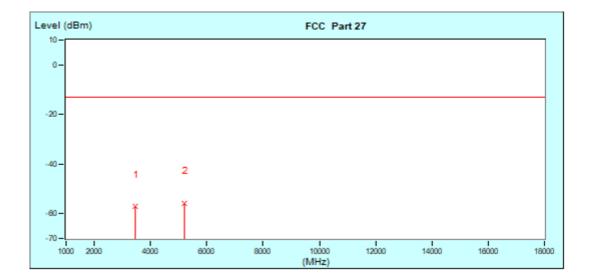


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MODE	MODE TX channel 20175		Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	ace Hu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3465.00 (PK)	-9.27	-47.87	-57.14	-13.00	-44.14	100	0
•	2	5197.50 (PK)	-3.92	-51.81	-55.73	-13.00	-42.73	100	0



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CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 20175	TX channel 20175 FREQUENCY RANGE						
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ					
TESTED BY	Jace Hu							
ANTEN	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
		MHz	dB	dBm	dBm	dBm	dB	cm	deg
•	1	3485.00 (PK)	-9.27	-46.72	-55.99	-13.00	-42.99	100	0
	2	5197.50 (PK)	-3.92	-52.11	-58.03	-13.00	-43.03	100	0
Le	vel (dBm)			FCC Par	t 27			
	-20-								

6000

8000

10000

(MHz)

14000

16000

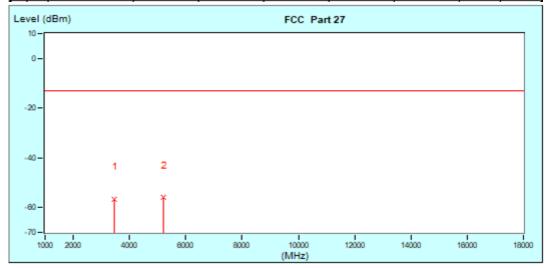
18000

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MODE	TX channel 20175 FREQUENCY RANGE		Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ					
TESTED BY	Jace Hu							
ANTE	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3465.00 (PK)	-9.27	-47.27	-56.54	-13.00	-43.54	100	0
•	2	5197.50 (PK)	-3.92	-52.08	-56.00	-13.00	-43.00	100	0



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CHANNEL BANDWIDTH: 10MHz/QPSK

CH20000

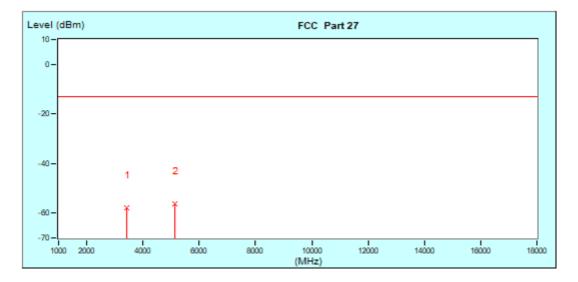
MODE	TX channel 20000	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu						
ANTEN	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower / Table	
		MHz	dB	dBm	dBm	dBm	dB	cm	deg
	1	3430.00 (PK)	-9.40	-50.64	-60.04	-13.00	-47.04	100	0
•	2	5145.00 (PK)	-4.03	-51.38	-55.41	-13.00	-42.41	100	0
1	0-	iBm)			FCC Par	121			
-2	ю-								



MODE	TX channel 20000	TX channel 20000 FREQUENCY RANGE					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu	ce Hu					
ANTE	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3430.00 (PK)	-9.40	-48.35	-57.75	-13.00	-44.75	100	0
•	2	5145.00 (PK)	-4.03	-52.18	-56.21	-13.00	-43.21	100	0

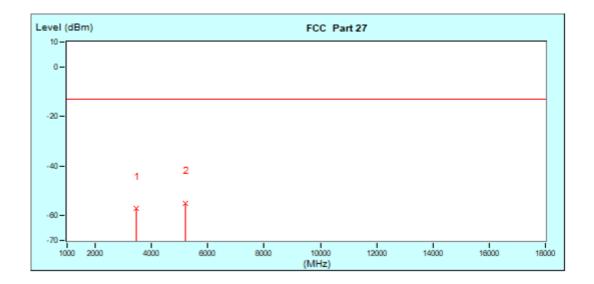




CH20175

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ					
TESTED BY	Jace Hu	ce Hu						
ANTEN	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

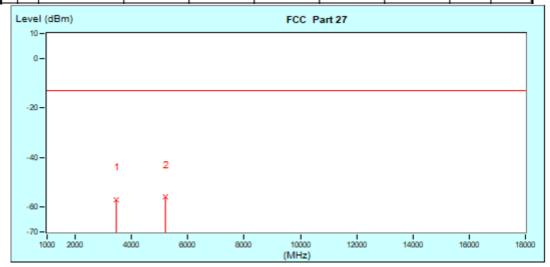
N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3465.00 (PK)	-9.27	-47.95	-57.22	-13.00	-44.22	100	0
•	2	5197.50 (PK)	-3.92	-51.04	-54.98	-13.00	-41.96	100	0





MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu	e Hu					
ANTE	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3465.00 (PK)	-9.27	-47.60	-56.87	-13.00	-43.87	100	0
٠	2	5197.50 (PK)	-3.92	-52.04	-55.96	-13.00	-42.96	100	0

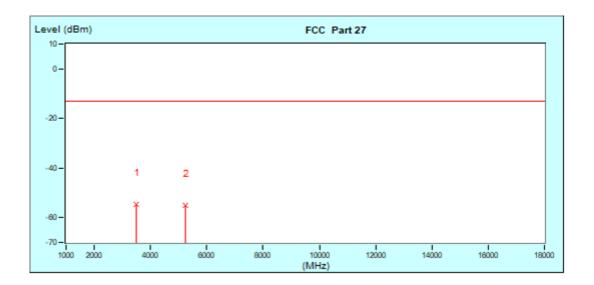




CH20350

MODE	TX channel 20350	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					

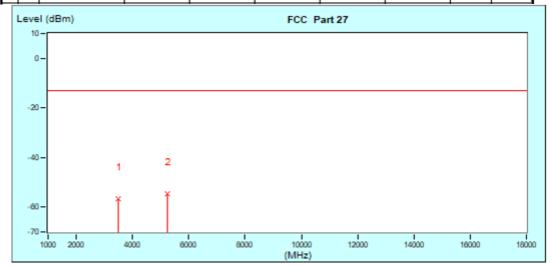
N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Ŀ	1	3500.00 (PK)	-9.15	-45.62	-54.77	-13.00	-41.77	100	0
Г	2	5250.00 (PK)	-3.80	-51.37	-55.17	-13.00	-42.17	100	0





MODE	TX channel 20350	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu	Jace Hu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3500.00 (PK)	-9.15	-47.67	-56.82	-13.00	-43.82	100	0
•	2	5250.00 (PK)	-3.80	-50.98	-54.79	-13.00	-41.79	100	0

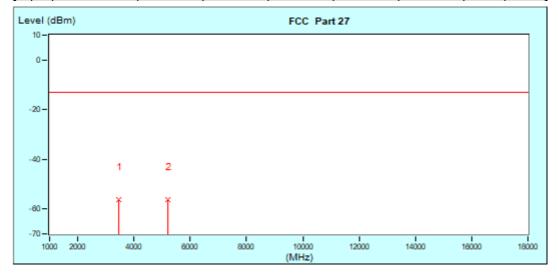




CHANNEL BANDWIDTH: 15MHz/QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz	
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ	
TESTED BY Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M				

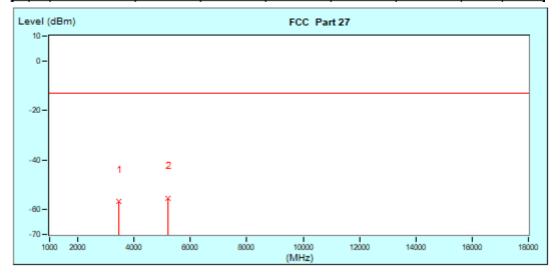
T _N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3465.00 (PK)	-9.27	-46.89	-56.16	-13.00	-43.16	100	0
-	2	5197.50 (PK)	-3.92	-52.20	-56.12	-13.00	-43.12	100	0





MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3465.00 (PK)	-9.27	-47.38	-56.63	-13.00	-43.63	100	0
•	2	5197.50 (PK)	-3.92	-51.33	-55.25	-13.00	-42.25	100	0

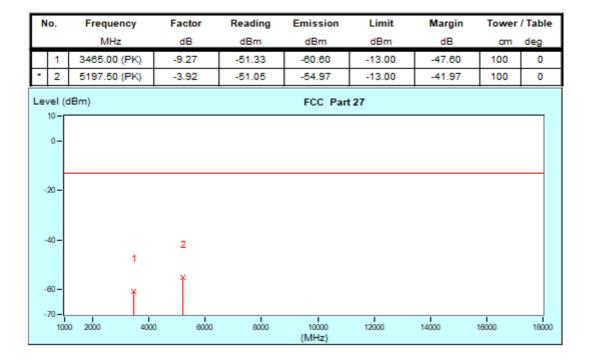


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CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

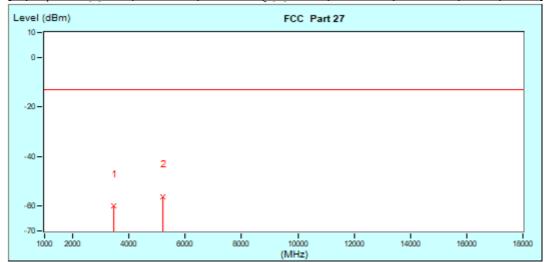


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MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu	Jace Hu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	3465.00 (PK)	-9.27	-50.59	-59.86	-13.00	-46.86	100	0
•	2	5197.50 (PK)	-3.92	-52.15	-56.07	-13.00	-43.07	100	0





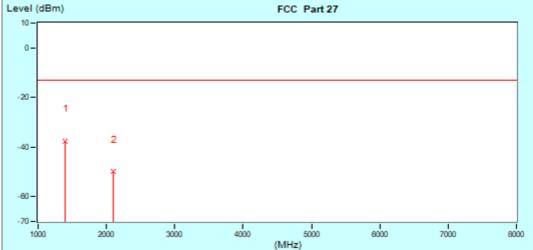
LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz/QPSK

CH23017

MODE	TX channel 23017	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu	Jace Hu			
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
·	1	1399.40 (PK)	-15.03	-22.47	-37.50	-13.00	-24.50	100	0
Г	2	2099.10 (PK)	-9.20	-40.60	-49.80	-13.00	-36.80	100	0
Le	Level (dBm) FCC Part 27								
	10-								
	0-								



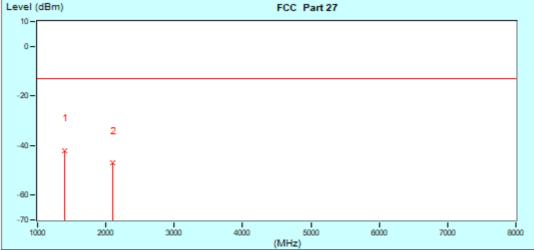
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MODE	TX channel 23017	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

N	0.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
		MHz	dB	dBm	dBm	dBm	dB	cm	deg
٠	1	1399.40 (PK)	-15.03	-27.01	-42.04	-13.00	-29.04	100	0
	2	2099.10 (PK)	-9.20	-37.92	-47.12	-13.00	-34.12	100	0
Level (dBm) FCC Part 27									
	0-								



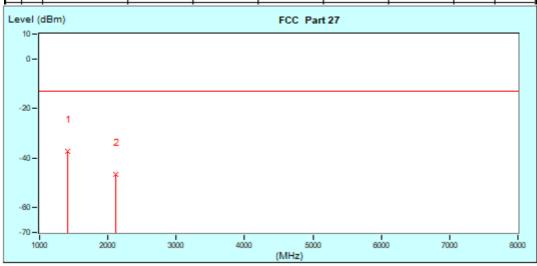
Tel: +86 755 8869 6566



CH23095

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

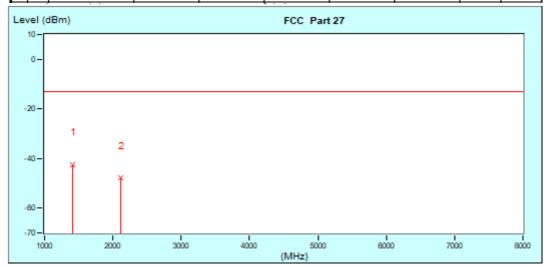
N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
		MHz	dB	dBm	dBm	dBm	dB	cm	deg
•	1	1415.00 (PK)	-15.01	-22.35	-37.38	-13.00	-24.36	100	0
	2	2122.50 (PK)	-9.30	-37.24	-46.54	-13.00	-33.54	100	0
Level (dBm) FCC Part 27									





MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Ŀ	1	1415.00 (PK)	-15.01	-27.32	-42.33	-13.00	-29.33	100	0
Г	2	2122.50 (PK)	-9.30	-38.63	-47.93	-13.00	-34.93	100	0

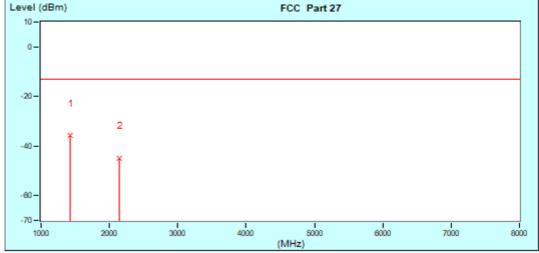




CH23173

MODE	TX channel 23173	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

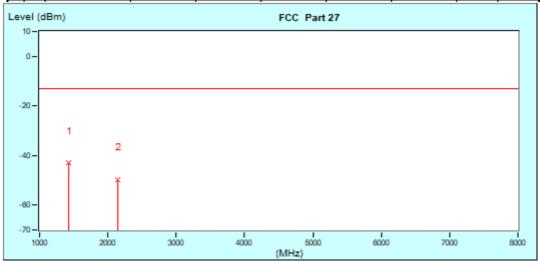
N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
		MHz	dB	dBm	dBm	dBm	dB	cm	deg
•	1	1430.60 (PK)	-14.98	-20.74	-35.72	-13.00	-22.72	100	0
Г	2	2145.90 (PK)	-9.41	-35.38	-44.79	-13.00	-31.79	100	0
Le	Level (dBm) FCC Part 27								
	0-								





MODE	TX channel 23173	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
		MHz	dB	dBm	dBm	dBm	dB	cm	deg
-	1	1430.60 (PK)	-14.98	-28.10	-43.08	-13.00	-30.08	100	0
	2	2145.90 (PK)	-9.41	-40.31	-49.72	-13.00	-36.72	100	0

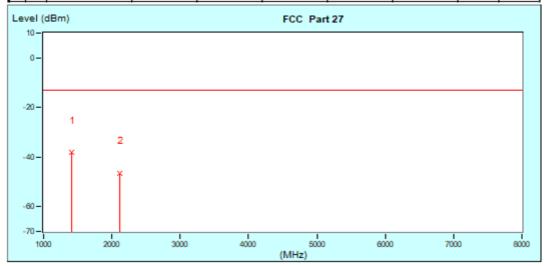




CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
-	1	1415.00 (PK)	-15.01	-23.18	-38.19	-13.00	-25.19	100	0
Г	2	2122.50 (PK)	-9.30	-37.17	-46.47	-13.00	-33.47	100	0

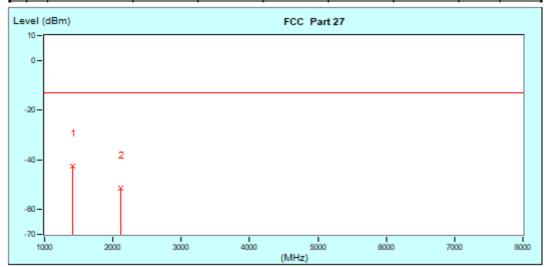


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MODE	TX channel 23095 FREQUENCY RANGE A		Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
F	1	1415.00 (PK)	-15.01	-27.35	-42.38	-13.00	-29.36	100	0
Г	2	2122.50 (PK)	-9.30	-42.03	-51.33	-13.00	-38.33	100	0

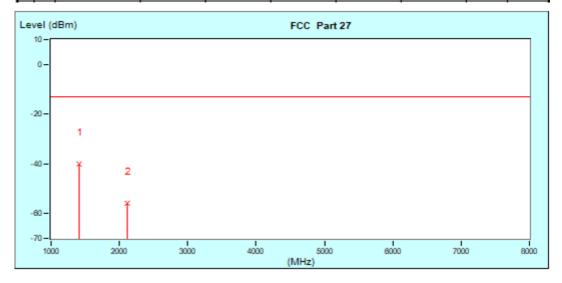




CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

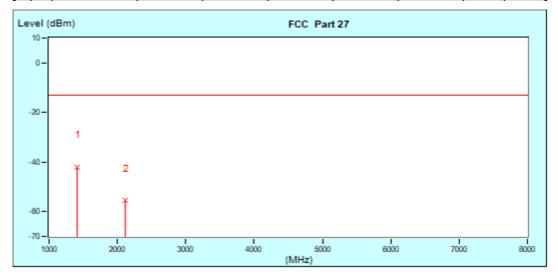
No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
F	1	1415.00 (PK)	-15.01	-25.29	-40.30	-13.00	-27.30	100	0
Г	2	2122.50 (PK)	-9.30	-48.75	-56.05	-13.00	-43.05	100	0





MODE	TX channel 23095 FREQUENCY RANGE		Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Y Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Ŀ	1	1415.00 (PK)	-15.01	-27.00	-42.01	-13.00	-29.01	100	0
	2	2122.50 (PK)	-9.30	-46.23	-55.53	-13.00	-42.53	100	0

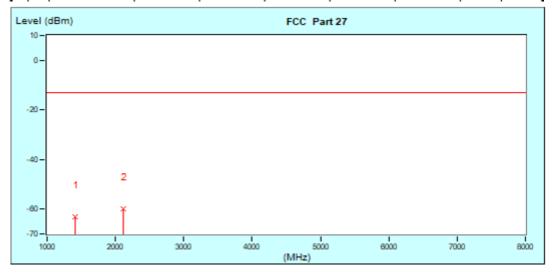




CHANNEL BANDWIDTH: 10MHz/QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	ESTED BY Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					

No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	1415.00 (PK)	-15.01	-48.08	-63.09	-13.00	-50.09	100	0
•	2	2122.50 (PK)	-9.30	-50.73	-60.03	-13.00	-47.03	100	0

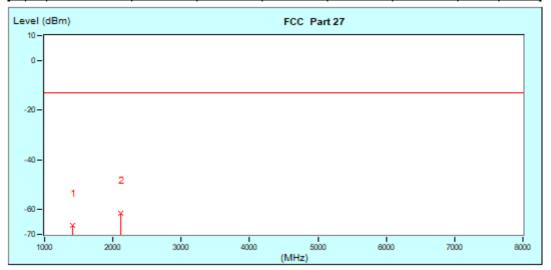


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MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Г	1	1415.00 (PK)	5.72	-72.17	-66.45	-13.00	-53.45	100	0
•	2	2122.50 (PK)	5.72	-87.14	-61.42	-13.00	-48.42	100	0





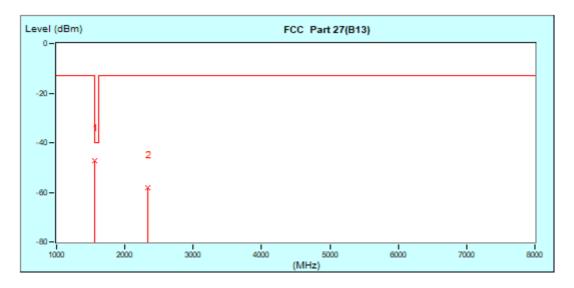
LTE B13

CHANNEL BANDWIDTH: 5MHz / QPSK

CH23205

MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu	ace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
F	1	1559.00 (PK)	-14.15	-33.04	-47.19	-40.00	-7.19	100	0
	2	2338.50 (PK)	-10.24	-47.79	-58.03	-13.00	-45.03	100	0

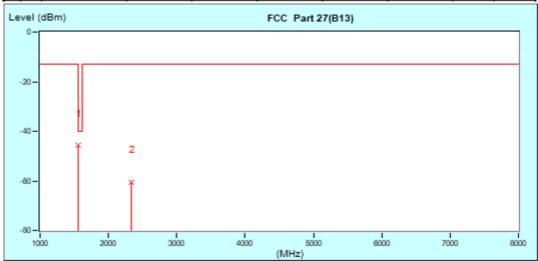


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MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu	ce Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
F	1	1559.00 (PK)	-14.15	-31.48	-45.63	-40.00	-5.63	100	0
Г	2	2338.50 (PK)	-10.24	-50.21	-80.45	-13.00	-47.45	100	0

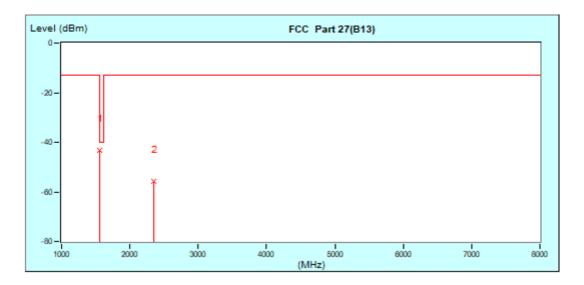




CH23230

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Y Jace Hu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

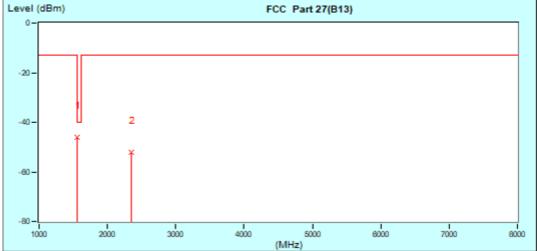
No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
F	1	1584.00 (PK)	-14.09	-29.20	-43.29	-40.00	-3.29	100	0
Г	2	2346.00 (PK)	-10.27	-45.63	-55.90	-13.00	-42.90	100	0





MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ				
TESTED BY	Jace Hu	ace Hu					
ANTE	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
٠	1	1564.00 (PK)	-14.09	-32.07	-46.16	-40.00	-6.16	100	0
Г	2	2346.00 (PK)	-10.27	-41.99	-52.26	-13.00	-39.26	100	0
Level (dBm) FCC Part 27(B13)									
	0-								
	-20-								

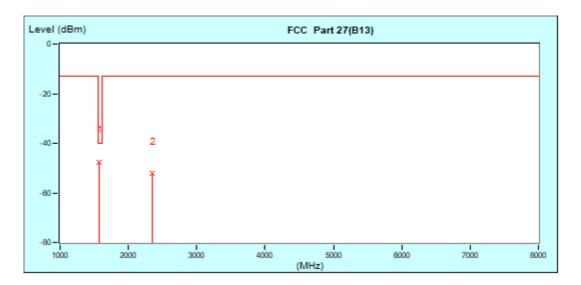




CH23255

MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu	ce Hu				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

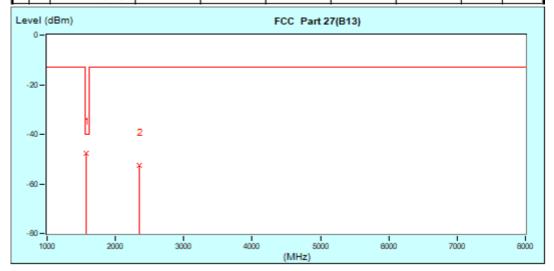
N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
F	1	1569.00 (PK)	-14.03	-33.57	-47.60	-40.00	-7.60	100	0
Г	2	2353.50 (PK)	-10.30	-41.95	-52.25	-13.00	-39.25	100	0





MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ			
TESTED BY	Jace Hu	ce Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

N	lo.	Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
Ŀ	1	1569.00 (PK)	-14.03	-33.82	-47.85	-40.00	-7.85	100	0
Г	2	2353.50 (PK)	-10.30	-42.12	-52.42	-13.00	-39.42	100	0

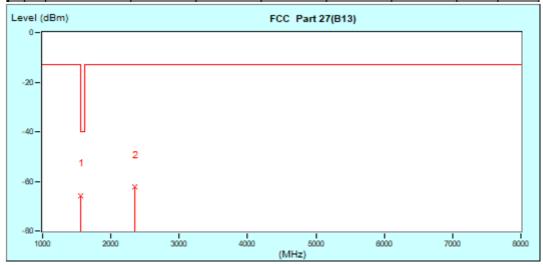




CHANNEL BANDWIDTH: 10MHz/QPSK

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					

No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower	/ Table
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
F	1	1564.00 (PK)	-14.09	-51.68	-65.77	-40.00	-25.77	100	0
Г	2	2346.00 (PK)	-10.27	-52.10	-62.37	-13.00	-49.37	100	0

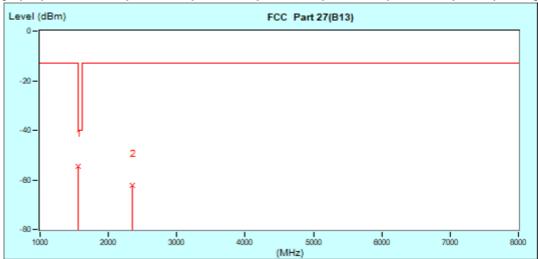


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MODE	TX channel 23230 FREQUENCY RANGE		Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ		
TESTED BY	Jace Hu				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

No.		Frequency	Factor	Reading	Emission	Limit	Margin	Tower / Table	
L		MHz	dB	dBm	dBm	dBm	dB	cm	deg
F	1	1584.00 (PK)	-14.09	-40.27	-54.38	-40.00	-14.36	100	0
	2	2346.00 (PK)	-10.27	-52.08	-62.33	-13.00	-49.33	100	0



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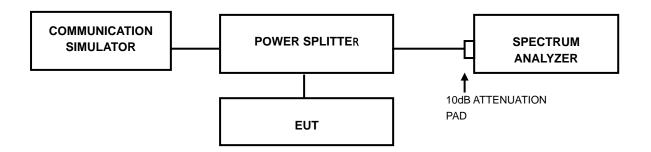


3.7 PEAK TO AVERAGE RATIO

3.7.1 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

3.7.2 TEST SETUP



3.7.3 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%.

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3.7.4 TEST RESULTS

Please Refer to Module report R2007A0435-R6.



4 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.adt.com.tw

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



5 MODIFICATIONS RECORDERS 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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