



FCC TEST REPORT (PART 27)

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Manufacturer or Supplier:	PAX Computer Technology (Shenz	zhen) Co., Ltd.		
Address:	4/F, No.3 Building, Software Park, industrial Park, Shenzhen, Guange	Second Central Science-Tech Road, High-Tech dong, P.R.C.		
Product:	Smart Kiosk			
Brand Name:	PAX			
Model Name:	SK600			
FCC ID:	V5PSK600	/5PSK600		
Date of tests:	Apr. 30, 2019 ~ Jun 26, 2019			
The tests have bee	n carried out according to the requi	rements of the following standard:		
 FCC Part 27, Se FCC Part 2		3- D 3-E ⊠ ANSI C63.26-2015		
CONCLUSION: Th	e submitted sample was found to <u>C</u>	OMPLY with the test requirement		
Prepared by Alex Chen Engineer / Mobile Department Approved by Luke Lu Manager / Mobile Department				
Alex lufe lu		lufe lu		
	ate: Jul 15, 2019 orporates by reference, CPS Conditions of Service as posted at			
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
RF190429W001-6	Original release	Jul 15, 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	PASS	Meet the requirement of limit.		
2.1049 27.53(h)	Occupied Bandwidth	PASS	Meet the requirement of limit.		
27.50(d)(5)	Peak to average ratio	PASS	Meet the requirement of limit.		
27.53(h)	Band Edge Measurements	PASS	Meet the requirement of limit.		
2.1051 27.53(h)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.		
2.1053 27.53(h)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -27.9dB at 46.490MHz.		

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.

Report Version 1



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
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	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jun. 24,19	Jun. 23,20
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	Jun. 24,19	Jun. 23,20
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	Jun. 24,19	Jun. 23,20
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
- 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Kiosk			
MODEL NAME	SK600			
POWER SUPPLY	AC 120V			
MODULATION TECHNOLOGY	LTE 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	1715.0MHz ~ 1750.0MHz		
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5MHz		
FREQUENCY RANGE	LTE Band 4 Channel Bandwidth: 20MHz	1720.0MHz ~ 1745.0MHz		
TREGULACI 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	704.0MHz ~ 711.0MHz		
	LTE Band 17 Channel Bandwidth: 5MHz	706.5MHz ~ 713.5MHz		
	LTE Band 17 Channel Bandwidth: 10MHz	709.0MHz ~ 711.0MHz		



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	LTE Band 4	QPSK: 1M09G7D	
	Channel Bandwidth: 1.4MHz	16QAM: 1M08W7D	
	LTE Band 4	QPSK: 2M69G7D	
	Channel Bandwidth: 3MHz	16QAM: 2M68W7D	
	LTE Band 4	QPSK: 4M49G7D	
	Channel Bandwidth: 5MHz	16QAM: 4M47W7D	
	LTE Band 4	QPSK: 8M93G7D	
	Channel Bandwidth: 10MHz	16QAM: 8M92W7D	
	LTE Band 4	QPSK: 13M4G7D	
	Channel Bandwidth: 15MHz	16QAM: 13M4W7D	
	LTE Band 4	QPSK: 17M9G7D	
EMISSION	Channel Bandwidth: 20MHz	16QAM: 17M8W7D	
DESIGNATOR	LTE Band 12	QPSK: 1M09G7D	
	Channel Bandwidth: 1.4MHz	16QAM: 1M08W7D	
	LTE Band 12	QPSK: 2M69G7D	
	Channel Bandwidth: 3MHz	16QAM: 2M68W7D	
	LTE Band 12	QPSK: 4M47G7D	
	Channel Bandwidth: 5MHz	16QAM: 4M46W7D	
	LTE Band 12	QPSK: 8M92G7D	
	Channel Bandwidth: 10MHz	16QAM: 8M92W7D	
	LTE Band 17	QPSK: 4M47G7D	
	Channel Bandwidth: 5MHz	16QAM: 4M48W7D	
	LTE Band 17	QPSK: 8M91G7D	
	Channel Bandwidth: 10MHz	16QAM: 8M91W7D	
	LTE Band 4 Channel Bandwidth: 1.4MHz	68mW	
	LTE Band 4 Channel Bandwidth: 3MHz	68mW	
	LTE Band 4 Channel Bandwidth: 5MHz	66mW	
	LTE Band 4 Channel Bandwidth: 10MHz	67mW	
MAX. ERP/EIRP	LTE Band 4 Channel Bandwidth: 15MHz	67mW	
POWER	LTE Band 4 Channel Bandwidth: 20MHz	60mW	
	LTE Band 12	48mW	
	Channel Bandwidth: 1.4MHz		
	LTE Band 12 Channel Bandwidth: 3MHz	50mW	
	LTE Band 12	54 . W	
	Channel Bandwidth: 5MHz	51mW	
	LTE Band 12 Channel Bandwidth: 10MHz	46mW	
		•	

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	LTE Band 17 Channel Bandwidth: 5MHz	43mW	
	LTE Band 17 Channel Bandwidth: 10MHz	38mW	
ANTENNA TYPE	Fixed Internal Antenna		
ANTENNA GAIN	1.5dBi for LTE Band 4		
ANTENNA GAIN	1dBi for LTE Band 12 & LTE Band 17		
HW VERSION	N/A		
SW VERSION	N/A		
ACCESSORY DEVICE	Refer to user's manual		
DATA CABLE	Refer to note as below		

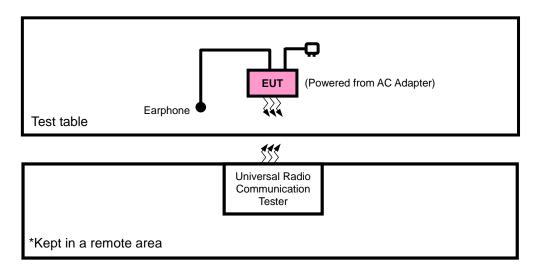
NOTE:

- 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.

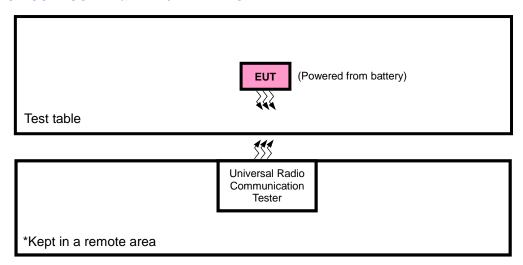


2.2 CONFIGURATION OF SYSTEM UNDER TEST

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

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

NOTE:

2.4 DESCRIPTION OF TEST MODES

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

EUT CONFIGURE MODE	DESCRIPTION
Α	EUT with LTE link
В	EUT with LTE link

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



LTE BAND 4

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
В	EIRP	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
5	LIIVI	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	19957, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965, 20385	3MHz	QPSK	1 RB / 0 RB Offset
ь	B FREQUENCY	19975 to 20375	19975, 20375	5MHz	QPSK	1 RB / 0 RB Offset
Ь	STABILITY	20000 to 20350	20000, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025, 20325	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20300	20MHz	QPSK	1 RB / 0 RB Offset
		19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
В	OCCUPIED	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
В	BANDWIDTH	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
		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
Б	PEAK TO	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В	AVERAGE RATIO	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	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19957 to 20393				6 RB / 0 RB Offset
			20393	1.4MHz	QPSK, 16QAM	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
			19965	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385				15 RB / 0 RB Offset 1 RB / 14 RB Offset
			20385	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
В	BAND EDGE					1 RB / 0 RB Offset
			19975	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		19975 to 20375	20275	5M⊔~	ODOK 1004::	1 RB / 24 RB Offset
			20375	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
			20000	10MHz	OBSK 460AM	1 RB / 0 RB Offset
		20000 +- 20052	20000	I OIVII IZ	QPSK, 16QAM	50 RB / 0 RB Offset
		20000 to 20350	20350	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset
					,	50 RB / 0 RB Offset



			20025	15MHz	0001/ 400414	1 RB / 0 RB Offset
		00005 1- 00005	20025	TOME	QPSK, 16QAM	75 RB / 0 RB Offset
		20025 to 20325	20225	15ML-	ODEK 160AM	1 RB / 74 RB Offset
В	D DAND EDGE		20325	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
В	BAND EDGE		20050	20MHz	ODEK 160AM	1 RB / 0 RB Offset
		20050 to 20200	20030	ZOWII IZ	QPSK, 16QAM	100 RB / 0 RB Offset
		20050 to 20300	20200	2011-	ODEK 160AM	1 RB / 99 RB Offset
			20300	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
	CONDCUDETED EMISSION	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK	1 RB / 0 RB Offset
В		19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 RB / 0 RB Offset
, B		20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK	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
А	RADIATED	19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
^	EMISSION	20000 to 20350	20175	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20175	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	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

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
В	ERP	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
	LIKI	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, 23173	1.4MHz	QPSK	1 RB / 0 RB Offset
В	FREQUENCY	23025 to 23165	23025, 23165	3MHz	QPSK	1 RB / 0 RB Offset
Б	STABILITY	23035 to 23155	23035, 23155	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060, 23130	10MHz	QPSK	1 RB / 0 RB Offset
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
_	OCCUPIED	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
В	BANDWIDTH	23035 to 23155	23035, 23095 ,23155	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		23060 to 23130		10MHz	QPSK,16QAM	50 RB / 0 RB Offset
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
_	PEAK TO	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В	AVERAGE RATIO	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
			20247	4 45411		1 RB / 0 RB Offset
			23017	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		23017 to 23173				1 RB / 5 RB Offset
			23173	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
			20025	OMUL-		1 RB / 0 RB Offset
			23025	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		23025 to 23165	00405	OMI I-		1 RB / 14 RB Offset
			23165	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
В	BAND EDGE		2225	51411		1 RB / 0 RB Offset
			23035	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		23035 to 23155				1 RB / 24 RB Offset
			23155	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
			00000	40141-		1 RB / 0 RB Offset
			23060	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		23060 to 23130				1 RB / 49 RB Offset
			23130	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK	1 RB / 0 RB Offset
_	CONDCUDETED		23025, 23095 ,23165	3MHz	QPSK	1 RB / 0 RB Offset
В	EMISSION		23035, 23095 ,23155	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130		10MHz	QPSK	1 RB / 0 RB Offset
		23017 to 23173	23095	1.4MHz	QPSK	1 RB / 0 RB Offset
	RADIATED	23025 to 23165	23095	3MHz	QPSK	1 RB / 0 RB Offset
Α	EMISSION	23035 to 23155		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 17

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
В	ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	LIVI	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В	FREQUENCY	23755 to 23825	23790	5MHz	QPSK	1 RB / 0 RB Offset
В	STABILITY	23780 to 23800	23790	10MHz	QPSK	1 RB / 0 RB Offset
В	OCCUPIED	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
В	BANDWIDTH	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
В	PEAK TO	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В	AVERAGE RATIO	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
			23755 5MHz		QPSK	1 RB / 0 RB Offset
		23755 to 23825				25 RB / 0 RB Offset
			23825 5MHz	5MHz	QPSK	1 RB / 24 RB Offset
В	BAND EDGE		20020	0111112	α. σ.τ	25 RB / 0 RB Offset
	271112 2202		23780	10MHz	QPSK	1 RB / 0 RB Offset
		23780 to 23800	20700	1011112	QI OIL	50 RB / 0 RB Offset
		257 00 10 25000	23800	10MHz	QPSK	1 RB / 49 RB Offset
					QI SIC	50 RB / 0 RB Offset
В	CONDCUDETED	23755 to 23825	23755, 23790, 23825	5MHz	QPSK	1 RB / 0 RB Offset
	EMISSION	23780 to 23800	23780, 23790, 23800	10MHz	QPSK	1 RB / 0 RB Offset
А	RADIATED	23755 to 23825	23790	5MHz	QPSK	1 RB / 0 RB Offset
, , , , , , , , , , , , , , , , , , ,	EMISSION	23780 to 23800	23780, 23790, 23800	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
EIRP(ERP)	24deg. C, 60%RH	AC120V	Tony
FREQUENCY STABILITY	24deg. C, 61%RH	AC120V	Rain Wang
OCCUPIED BANDWIDTH	24deg. C, 61%RH	AC120V	Rain Wang
PEAK TO AVERAGE RATIO	24deg. C, 61%RH	AC120V	Rain Wang
BAND EDGE	24deg. C, 61%RH	AC120V	Rain Wang
CONDCUDETED EMISSION	24deg. C, 61%RH	AC120V	Rain Wang
RADIATED EMISSION	24deg. C, 60%RH	AC120V	Tony



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.

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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 1710–1755 MHz band are limited to 1 watt EIRP.

Portable stations (hand-held devices) operating in the 699-716 MHz bands are limited to 3 watts ERP.

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.

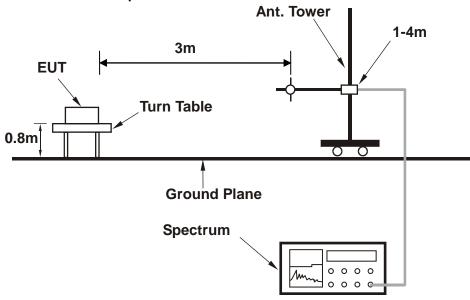
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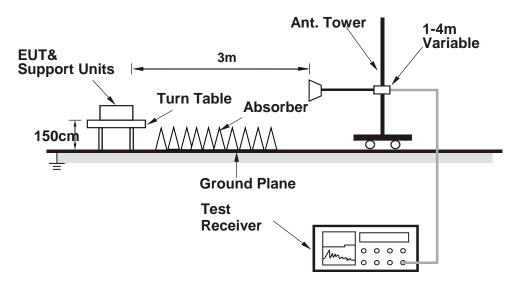
3.1.3 TEST SETUP

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

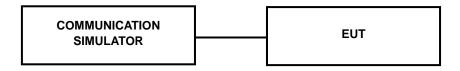


<Radiated Emission above 1 GHz>



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

CONDUCTED POWER MEASUREMENT:



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3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

				LTE Band 4			
BW	Modulation	RB	RB	Low CH 19957	Mid CH 20175	High CH 20393	MPR
	Modulation	Size	Offset	Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz	WII IX
		1	0	20.76	21.19	21.20	0
		1	2	20.67	21.03	21.09	0
		1	5	20.24	20.58	20.62	0
	QPSK	3	0	19.95	20.32	20.40	1
		3	1	19.95	20.33	20.29	1
		3	3	19.89	20.25	20.29	1
4/ 1.4		6	0	20.03	20.37	20.43	1
4/ 1.4		1	0	19.37	19.74	19.78	1
		1	2	19.35	19.68	19.76	1
		1	5	19.26	19.62	19.71	1
	16QAM	3	0	19.08	19.46	19.48	2
		3	1	18.98	19.44	19.42	2
		3	3	19.00	19.38	19.44	2
		6	0	19.04	19.47	19.46	2
	Modulation	RB	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385	
BW		Size		Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz	MPR
		1	0	20.78	21.21	21.19	0
		1	7	20.63	21.04	21.09	0
		1	14	20.20	20.58	20.62	0
	QPSK	8	0	19.94	20.35	20.40	1
		8	3	19.88	20.33	20.31	1
		8	7	19.86	20.32	20.33	1
44.0		15	0	20.00	20.38	20.37	1
4/ 3		1	0	19.34	19.80	19.81	1
		1	7	19.32	19.71	19.74	1
		1	14	19.29	19.62	19.71	1
	16QAM	8	0	19.04	19.47	19.48	2
		8	3	19.03	19.39	19.45	2
		8	7	19.02	19.36	19.40	2
		15	0	19.04	19.41	19.49	2

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				LTE Band 4			
BW	Modulation	RB	RB	Low CH 19975	Mid CH 20175	High CH 20375	MPR
	Woddiation	Size	Offset	Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz	WIFIX
		1	0	20.79	21.16	21.20	0
		1	12	20.68	21.01	21.09	0
		1	24	20.21	20.57	20.66	0
	QPSK	12	0	19.97	20.35	20.37	1
		12	6	19.88	20.34	20.32	1
		12	13	19.90	20.28	20.34	1
4/ 5		25	0	19.98	20.41	20.40	1
4/ 5		1	0	19.35	19.76	19.81	1
		1	12	19.29	19.74	19.73	1
		1	24	19.29	19.62	19.70	1
	16QAM	12	0	19.04	19.45	19.45	2
		12	6	19.00	19.43	19.41	2
		12	13	18.97	19.38	19.43	2
		25	0	19.04	19.42	19.46	2
BW	Modulation	RB	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350	MPR
BW		Size		Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz	WIT IX
		1	0	20.76	21.19	21.20	0
		1	24	20.68	21.01	21.10	0
		1	49	20.18	20.61	20.62	0
	QPSK	25	0	19.98	20.34	20.40	1
		25	12	19.94	20.28	20.32	1
		25	25	19.88	20.25	20.33	1
4/40		50	0	20.03	20.41	20.37	1
4/ 10		1	0	19.35	19.73	19.77	1
		1	24	19.34	19.70	19.76	1
		1	49	19.29	19.63	19.67	1
	16QAM	25	0	19.06	19.43	19.51	2
		25	12	19.04	19.37	19.46	2
		25	25	18.96	19.39	19.40	2
		50	0	19.08	19.41	19.50	2

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				LTE Band 4			
BW	Modulation	RB	RB	Low CH 20025	Mid CH 20175	High CH 20325	MPR
511	Woddiation	Size	Offset	Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	WIFIX
		1	0	20.83	21.19	21.17	0
		1	37	20.66	21.06	21.05	0
		1	74	20.24	20.64	20.63	0
	QPSK	36	0	19.95	20.35	20.41	1
		36	19	19.95	20.33	20.32	1
		36	39	19.86	20.26	20.33	1
4/ 15		75	0	20.03	20.39	20.42	1
4/ 15		1	0	19.39	19.80	19.77	1
		1	37	19.33	19.71	19.76	1
		1	74	19.25	19.68	19.69	1
	16QAM	36	0	19.10	19.43	19.52	2
		36	19	18.98	19.41	19.42	2
		36	39	19.01	19.37	19.43	2
		75	0	19.09	19.44	19.43	2
BW	Modulation	RB	RB	Low CH 20050	Mid CH 20175	High CH 20300	MDD
BVV		Size	Offset	Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz	MPR
		1	0	20.84	21.23	21.25	0
		1	50	20.70	21.09	21.11	0
		1	99	20.26	20.65	20.67	0
	QPSK	50	0	20.01	20.40	20.42	1
		50	25	19.96	20.35	20.37	1
		50	50	19.94	20.33	20.35	1
4/ 00		100	0	20.04	20.43	20.45	1
4/ 20		1	0	19.42	19.81	19.83	1
		1	50	19.37	19.76	19.78	1
		1	99	19.31	19.70	19.72	1
	16QAM	50	0	19.12	19.51	19.53	2
		50	25	19.06	19.45	19.47	2
		50	50	19.04	19.43	19.45	2
		100	0	19.10	19.49	19.51	2

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				LTE Band 12			
BW	Modulation	RB	RB	Low CH 23017	Mid CH 23095	High CH 23173	MPR
DVV	Wodulation	Size	Offset	Frequency 699.7 MHz	Frequency 707.5 MHz	Frequency 715.3 MHz	IVIPR
		1	0	21.46	21.63	21.48	0
		1	2	21.93	22.03	21.93	0
		1	5	22.00	22.08	21.96	0
	QPSK	3	0	21.91	22.02	21.94	0
		3	1	21.94	22.06	21.86	0
		3	3	21.86	21.96	21.84	0
40/4.4		6	0	21.87	21.95	21.85	0
12/ 1.4		1	0	21.53	21.64	21.52	1
		1	2	21.53	21.60	21.52	1
		1	5	21.47	21.57	21.50	1
	16QAM	3	0	20.82	20.94	20.80	1
		3	1	20.74	20.94	20.76	1
		3	3	20.74	20.86	20.76	1
		6	0	20.79	20.96	20.79	1
				LTE Band 12			
BW	Madulation	RB	RB	Low CH 23025	Mid CH 23095	High CH 23165	МВВ
DVV	Modulation	Size	Offset	Frequency 700.5 MHz	Frequency 707.5 MHz	Frequency 714.5 MHz	MPR
		1	0	21.48	21.65	21.47	0
		1	7	21.89	22.04	21.93	0
		1	14	21.96	22.08	21.96	0
	QPSK	8	0	21.90	22.05	21.94	0
		8	3	21.87	22.06	21.88	0
		8	7	21.83	22.03	21.88	0
40/0		15	0	21.84	21.96	21.79	0
12/ 3		1	0	21.50	21.70	21.55	1
		1	7	21.50	21.63	21.50	1
		1	14	21.50	21.57	21.50	1
	16QAM	8	0	20.78	20.95	20.80	1
		8	3	20.79	20.89	20.79	1
					_	_	_
		8	7	20.76	20.84	20.72	1



				LTE Band 12			
BW	Modulation	RB	RB	Low CH 23035	Mid CH 23095	High CH 23155	- MPR
511	Modulation	Size	Offset	Frequency 701.5 MHz	Frequency 707.5 MHz	Frequency 713.5 MHz	WII IX
		1	0	21.49	21.60	21.48	0
		1	12	21.94	22.01	21.93	0
		1	24	21.97	22.07	22.00	0
	QPSK	12	0	21.93	22.05	21.91	0
		12	6	21.87	22.07	21.89	0
		12	13	21.87	21.99	21.89	0
40/5		25	0	21.82	21.99	21.82	0
12/ 5		1	0	21.51	21.66	21.55	1
		1	12	21.47	21.66	21.49	1
	16QAM	1	24	21.50	21.57	21.49	1
		12	0	20.78	20.93	20.77	1
		12	6	20.76	20.93	20.75	1
		12	13	20.71	20.86	20.75	1
		25	0	20.79	20.91	20.79	1
				LTE Band 12	•		
			RB Offset	Low CH	Mid CH	High CH	
BW	Modulation	RB Size		23060 Frequency	23095 Frequency	23130 Frequency	MPR
				704 MHz	707.5 MHz	711 MHz	
		1	0	21.54	21.67	21.53	0
		1	24	21.96	22.09	21.95	0
		1	49	22.02	22.15	22.01	0
	QPSK	25	0	21.97	22.10	21.96	0
		25	12	21.95	22.08	21.94	0
		25	25	21.91	22.04	21.90	0
40/40		50	0	21.88	22.01	21.87	0
12/ 10		1	0	21.58	21.71	21.57	1
		1	24	21.55	21.68	21.54	1
		1	49	21.52	21.65	21.51	1
	16QAM	25	0	20.86	20.99	20.85	1
		25	12	20.82	20.95	20.81	1
		25	25	20.78	20.91	20.77	1
		23		20.70	20.01	20.11	

20.85

50

0

20.84

20.98

1



				LTE Band 17			
BW	Modulation	RB Size	RB Offset	Low CH 23755 Frequency	Mid CH 23790 Frequency	High CH 23825 Frequency	MPR
				706.5 MHz	710 MHz	713.5 MHz	
		1	0	21.23	21.18	20.91	0
		1	12	21.13	21.04	20.81	0
		1	24	20.90	20.84	20.62	0
	QPSK	12	0	21.29	21.25	20.96	0
		12	6	21.18	21.22	20.89	0
		12	13	21.17	21.13	20.88	0
17/ 5		25	0	21.22	21.23	20.91	0
		1	0	20.88	20.87	20.61	1
		1	12	20.83	20.86	20.54	1
		1	24	20.84	20.75	20.52	1
	16QAM	12	0	20.28	20.27	19.96	1
		12	6	20.26	20.27	19.94	1
		12	13	20.21	20.20	19.94	1
		25	0	20.17	20.13	19.86	1
BW	Modulation	RB	RB	Low CH 23780	Mid CH 23790	High CH 23800	MPR
BVV		Size	Offset	Frequency 709 MHz	Frequency 710 MHz	Frequency 711 MHz	INICK
		1	0	21.28	21.25	20.96	0
		1	24	21.15	21.12	20.83	0
		1	49	20.95	20.92	20.63	0
	QPSK	25	0	21.33	21.30	21.01	0
		25	12	21.26	21.23	20.94	0
		25	25	21.21	21.18	20.89	0
47/40		50	0	21.28	21.25	20.96	0
17/ 10		1	0	20.95	20.92	20.63	1
		1	24	20.91	20.88	20.59	1
		1	49	20.86	20.83	20.54	1
	16QAM	25	0	20.36	20.33	20.04	1
		25	12	20.32	20.29	20.00	1
		25	25	20.28	20.25	19.96	1
		50	0	20.23	20.20	19.91	1

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LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19957	1710.7	-26.01	41.29	15.28	33.76	Н	1
20175	1732.5	-25.54	41.36	15.82	38.19	Н	1
20393	1754.3	-27.13	42.74	15.61	36.37	Н	1
19957	1710.7	-25.94	44.25	18.31	67.69	V	1
20175	1732.5	-27.40	44.20	16.80	47.86	V	1
20393	1754.3	-26.62	44.09	17.47	55.78	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)
19957	1710.7	-26.88	41.29	14.41	27.63	Н	1
20175	1732.5	-26.47	41.36	14.89	30.83	Н	1
20393	1754.3	-28.09	42.74	14.65	29.16	Н	1
19957	1710.7	-26.81	44.25	17.44	55.40	V	1
20175	1732.5	-28.33	44.20	15.87	38.64	V	1
20393	1754.3	-27.58	44.09	16.51	44.72	V	1



LTE BAND 4

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19965	1711.5	-25.99	41.27	15.28	33.71	Н	1
20175	1732.5	-25.60	41.36	15.76	37.67	Н	1
20385	1753.5	-27.08	42.76	15.68	36.96	Н	1
19965	1711.5	-25.92	44.26	18.34	68.27	V	1
20175	1732.5	-27.46	44.20	16.74	47.21	V	1
20385	1753.5	-26.57	44.23	17.66	58.37	V	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19965	1711.5	-27.06	41.27	14.21	26.35	Н	1
20175	1732.5	-26.49	41.36	14.87	30.69	Н	1
20385	1753.5	-28.07	42.76	14.69	29.42	Н	1
19965	1711.5	-26.99	44.26	17.27	53.36	V	1
20175	1732.5	-28.35	44.20	15.85	38.46	V	1
20385	1753.5	-27.56	44.23	16.67	46.47	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19975	1712.5	-26.05	41.39	15.34	34.19	Н	1
20175	1732.5	-25.55	41.36	15.81	38.11	Н	1
20375	1752.5	-27.03	42.63	15.60	36.30	Н	1
19975	1712.5	-25.98	44.17	18.19	65.86	V	1
20175	1732.5	-27.41	44.20	16.79	47.75	V	1
20375	1752.5	-26.52	44.35	17.83	60.60	V	1



CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19975	1712.5	-26.88	41.39	14.51	28.24	Н	1
20175	1732.5	-26.57	41.36	14.79	30.13	Н	1
20375	1752.5	-28.13	42.63	14.50	28.18	Н	1
19975	1712.5	-26.81	44.17	17.36	54.40	V	1
20175	1732.5	-28.43	44.20	15.77	37.76	V	1
20375	1752.5	-27.62	44.35	16.73	47.04	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20000	1715.0	-25.86	41.49	15.63	36.53	Н	1
20175	1732.5	-25.49	41.36	15.87	38.64	Н	1
20350	1750.0	-26.90	42.28	15.38	34.54	Н	1
20000	1715.0	-25.79	44.06	18.27	67.19	V	1
20175	1732.5	-27.35	44.20	16.85	48.42	V	1
20350	1750.0	-26.39	44.43	18.04	63.68	V	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20000	1715.0	-27.01	41.49	14.48	28.03	Н	1
20175	1732.5	-26.59	41.36	14.77	29.99	Н	1
20350	1750.0	-28.06	42.28	14.22	26.44	Н	1
20000	1715.0	-26.94	44.06	17.12	51.56	V	1
20175	1732.5	-28.45	44.20	15.75	37.58	V	1
20350	1750.0	-27.55	44.43	16.88	48.75	V	1



LTE BAND 4

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20025	1717.5	-25.87	41.34	15.47	35.22	Н	1
20175	1732.5	-25.56	41.36	15.80	38.02	Н	1
20325	1747.5	-26.97	42.09	15.12	32.48	Н	1
20025	1717.5	-25.80	44.04	18.24	66.74	V	1
20175	1732.5	-27.42	44.20	16.78	47.64	V	1
20325	1747.5	-26.46	44.22	17.76	59.63	V	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20025	1717.5	-26.73	41.34	14.61	28.89	Н	1
20175	1732.5	-26.43	41.36	14.93	31.12	Н	1
20325	1747.5	-27.82	42.09	14.27	26.71	Н	1
20025	1717.5	-26.66	44.04	17.38	54.75	V	1
20175	1732.5	-28.29	44.20	15.91	38.99	V	1
20325	1747.5	-27.31	44.22	16.91	49.03	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20050	1720.0	-26.45	41.28	14.83	30.42	Н	1
20175	1732.5	-26.01	41.36	15.35	34.28	Н	1
20300	1745.0	-27.55	41.96	14.41	27.59	Н	1
20050	1720.0	-26.38	44.14	17.76	59.63	V	1
20175	1732.5	-27.87	44.20	16.33	42.91	V	1
20300	1745.0	-27.04	43.88	16.84	48.33	V	1



CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20050	1720.0	-27.38	41.28	13.90	24.55	Н	1
20175	1732.5	-27.08	41.36	14.28	26.80	Н	1
20300	1745.0	-28.38	41.96	13.58	22.79	Н	1
20050	1720.0	-27.31	44.14	16.83	48.14	V	1
20175	1732.5	-28.94	44.20	15.26	33.54	V	1
20300	1745.0	-27.87	43.88	16.01	39.92	V	1

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

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23017	699.7	-13.90	32.77	16.72	46.99	Н	3
23095	707.5	-14.68	33.23	16.40	43.65	Н	3
23173	715.3	-14.66	33.14	16.33	42.93	Н	3
23017	699.7	-13.94	32.42	16.33	42.91	V	3
23095	707.5	-14.14	32.60	16.31	42.76	V	3
23173	715.3	-13.26	32.19	16.78	47.60	V	3

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23017	699.7	-14.73	32.77	15.89	38.82	Н	3
23095	707.5	-15.70	33.23	15.38	34.51	Н	3
23173	715.3	-15.76	33.14	15.23	33.33	Н	3
23017	699.7	-14.77	32.42	15.50	35.45	V	3
23095	707.5	-15.16	32.60	15.29	33.81	V	3
23173	715.3	-14.36	32.19	15.68	36.95	V	3

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



LTE BAND 12

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23025	700.5	-13.71	32.63	16.77	47.54	Н	3
23095	707.5	-14.62	33.23	16.46	44.26	Н	3
23165	714.5	-14.53	33.21	16.53	44.93	Н	3
23025	700.5	-13.75	32.33	16.43	43.92	V	3
23095	707.5	-14.08	32.60	16.37	43.35	V	3
23165	714.5	-13.13	32.30	17.02	50.36	V	3

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23025	700.5	-14.86	32.63	15.62	36.48	Н	3
23095	707.5	-15.72	33.23	15.36	34.36	Н	3
23165	714.5	-15.69	33.21	15.37	34.40	Н	3
23025	700.5	-14.90	32.33	15.28	33.71	V	3
23095	707.5	-15.18	32.60	15.27	33.65	V	3
23165	714.5	-14.29	32.30	15.86	38.56	V	3

LTE BAND 12

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23035	701.5	-13.72	32.53	16.66	46.29	Н	3
23095	707.5	-14.69	33.23	16.39	43.53	Н	3
23155	713.5	-14.60	33.29	16.54	45.05	Н	3
23035	701.5	-13.76	32.25	16.34	43.09	V	3
23095	707.5	-14.15	32.60	16.30	42.66	V	3
23155	713.5	-13.20	32.39	17.04	50.54	V	3



CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23035	701.5	-14.58	32.53	15.80	37.98	Н	3
23095	707.5	-15.56	33.23	15.52	35.63	Н	3
23155	713.5	-15.45	33.29	15.69	37.04	Н	3
23035	701.5	-14.62	32.25	15.48	35.35	V	3
23095	707.5	-15.02	32.60	15.43	34.91	V	3
23155	713.5	-14.05	32.39	16.19	41.55	V	3

LTE BAND 12

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23060	704.0	-14.30	32.68	16.23	42.00	Н	3
23095	707.5	-15.14	33.23	15.94	39.26	Н	3
23130	711.0	-15.18	33.39	16.06	40.34	Н	3
23060	704.0	-14.34	32.37	15.88	38.71	V	3
23095	707.5	-14.60	32.60	15.85	38.46	V	3
23130	711.0	-13.78	32.56	16.63	45.97	V	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23060	704.0	-15.23	32.68	15.30	33.91	Н	3
23095	707.5	-16.21	33.23	14.87	30.69	Н	3
23130	711.0	-16.01	33.39	15.23	33.32	Н	3
23060	704.0	-15.27	32.37	14.95	31.25	V	3
23095	707.5	-15.67	32.60	14.78	30.06	V	3
23130	711.0	-14.61	32.56	15.80	37.98	V	3

REMARKS: 1. ERP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB) -2.15(dB).

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



LTE BAND 17

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23755	706.5	-14.89	32.64	15.60	36.27	Н	3
23790	710.0	-16.19	32.92	14.58	28.71	Н	3
23825	713.5	-15.93	32.83	14.75	29.83	Н	3
23755	706.5	-13.69	32.14	16.30	42.62	V	3
23790	710.0	-14.13	32.18	15.90	38.90	V	3
23825	713.5	-13.81	31.95	15.99	39.76	V	3

NOTE: ERP (dBm) = LVL (dBm) + Correction Factor (dB)-2.15dB.

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23755	706.5	-15.75	32.64	14.74	29.75	Н	3
23790	710.0	-17.06	32.92	13.71	23.50	Н	3
23825	713.5	-16.78	32.83	13.90	24.52	Н	3
23755	706.5	-14.55	32.14	15.44	34.96	V	3
23790	710.0	-15.00	32.18	15.03	31.84	V	3
23825	713.5	-14.66	31.95	15.14	32.69	V	3

NOTE: ERP (dBm) = LVL (dBm) + Correction Factor (dB)-2.15dB.



LTE BAND 17

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23780	709.0	-15.47	32.90	15.28	33.69	Н	3
23790	710.0	-16.64	32.92	14.13	25.87	Н	3
23800	711.0	-16.51	32.92	14.26	26.67	Н	3
23780	709.0	-14.27	32.20	15.78	37.80	V	3
23790	710.0	-14.58	32.18	15.45	35.09	V	3
23800	711.0	-14.39	32.13	15.59	36.23	V	3

NOTE: ERP (dBm) = LVL (dBm) + Correction Factor (dB)-2.15dB.

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23780	709.0	-16.40	32.90	14.35	27.20	Н	3
23790	710.0	-17.71	32.92	13.06	20.22	Н	3
23800	711.0	-17.34	32.92	13.43	22.03	Н	3
23780	709.0	-15.20	32.20	14.85	30.51	V	3
23790	710.0	-15.65	32.18	14.38	27.43	V	3
23800	711.0	-15.22	32.13	14.76	29.93	V	3

NOTE: ERP (dBm) = LVL (dBm) + Correction Factor (dB)-2.15dB.



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

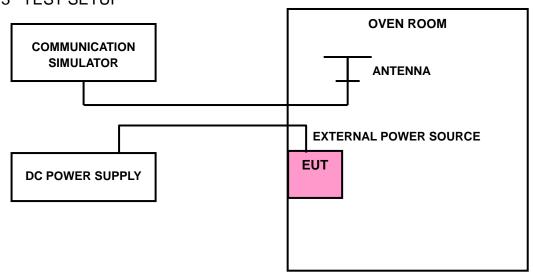
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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

The test results was recorded in Report No.: RF160714W002-3 (FCC ID: SRQ-ME3630).

Nanshan District, Shenzhen, Guangdong, China

Email: customerservice.dg@cn.bureauveritas.com

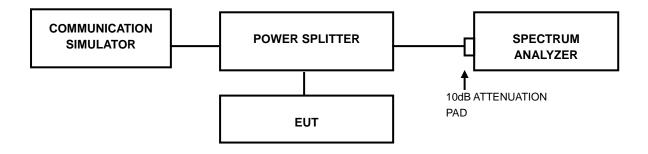


3.3 OCCUPIED BANDWIDTH MEASUREMENT

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

The test results was recorded in Report No.: RF160714W002-3 (FCC ID: SRQ-ME3630).

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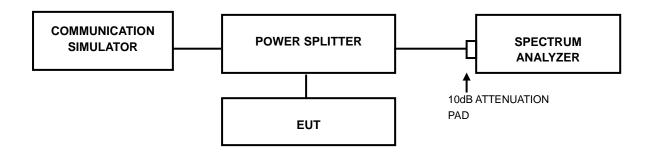


3.4 PEAK TO AVERAGE RATIO

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

The test results was recorded in Report No.: RF160714W002-3 (FCC ID: SRQ-ME3630).

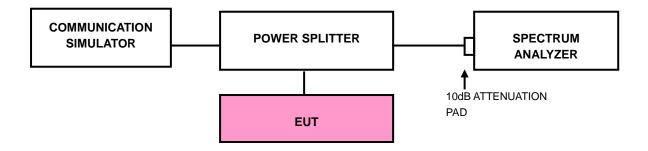
3.5 BAND EDGE MEASUREMENT

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

The test results was recorded in Report No.: RF160714W002-3 (FCC ID: SRQ-ME3630).



3.6 CONDUCTED SPURIOUS EMISSIONS

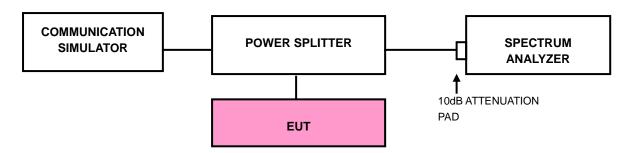
3.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 19.1GHz for WCDMA Band 4 & LTE Band 4 and 30 MHz to 9GHz for LTE Band 12. 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

The test results was recorded in Report No.: RF160714W002-3 (FCC ID: SRQ-ME3630).



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.

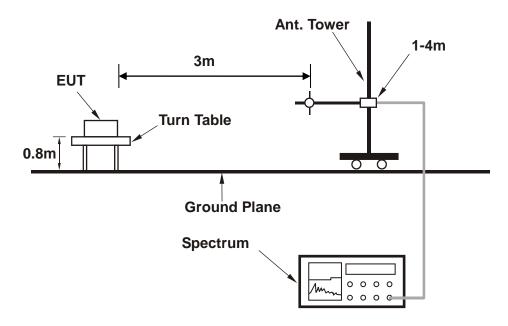
3.7.3 DEVIATION FROM TEST STANDARD

No deviation

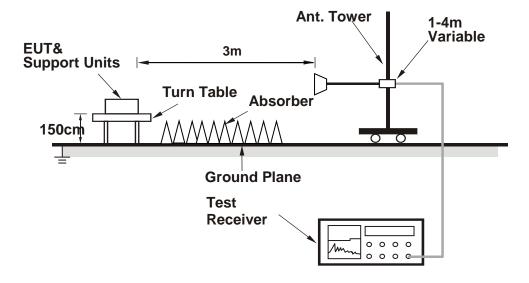


3.7.4 TEST SETUP

< Frequency Range 30MHz~1GHz >



< Frequency Range above 1GHz >



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

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3.7.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

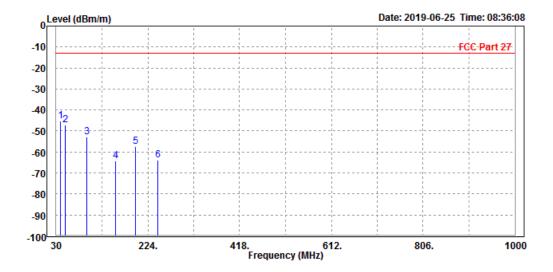
30 MHz - 1GHz data:

LTE BAND 12

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Below 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	3deg. C, 70%RH INPUT POWER					
TESTED BY	Tony	Tony					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

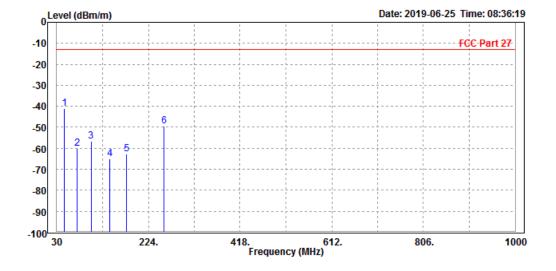
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
_								
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	38.590	-45.35	-57.52	-13.00	-32.35	12.17	Peak	Horizontal
2	49.880	-47.33	-50.55	-13.00	-34.33	3.22	Peak	Horizontal
3	95.780	-52.90	-42.64	-13.00	-39.90	-10.26	Peak	Horizontal
4	155.860	-64.36	-45.62	-13.00	-51.36	-18.74	Peak	Horizontal
5	198.520	-57.42	-40.15	-13.00	-44.42	-17.27	Peak	Horizontal
6	245.690	-63.88	-47.52	-13.00	-50.88	-16.36	Peak	Horizontal





MODE	TX channel 23095	Below 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony	ony					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

	Freq	Level		Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	46.490	-40.90	-37.26	-13.00	-27.90	-3.64	Peak	Vertical
2	72.520	-60.01	-45.78	-13.00	-47.01	-14.23	Peak	Vertical
3	102.580	-56.60	-45.59	-13.00	-43.60	-11.01	Peak	Vertical
4	142.560	-65.20	-49.25	-13.00	-52.20	-15.95	Peak	Vertical
5	177.540	-62.61	-49.18	-13.00	-49.61	-13.43	Peak	Vertical
6	256.480	-49.35	-37.86	-13.00	-36.35	-11.49	Peak	Vertical





ABOVE 1GHz

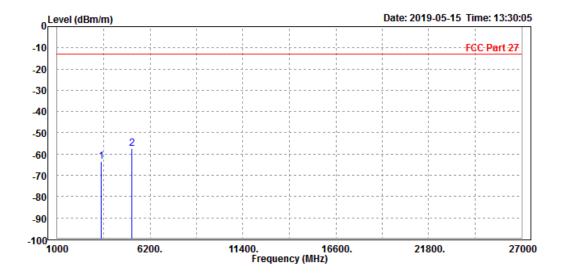
Note: For higher frequency, the emission is too low to be detected.

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			
TESTED BY	Tony	ony				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

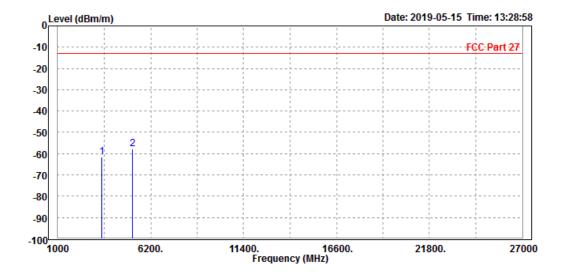
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-63.43	-65.48	-13.00	-50.43	2.05	Peak	Horizontal
2 P	P 5197.500	-57.58	-66.19	-13.00	-44.58	8.61	Peak	Horizontal





MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony	ony					
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	3470.000	-61 52	-64 05	-13 00	-48 52	2 53	Peak	Vertical	
-	3470.000	01.52	04.03	13.00	40.52	2.55	I Cuit	VCI CICUI	
2 PP	5197,500	-57.66	-65.64	-13.00	-44.66	7.98	Peak	Vertical	

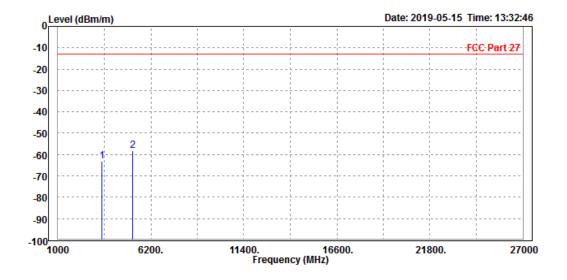




CHANNEL BANDWIDTH: 3MHz / QPSK

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

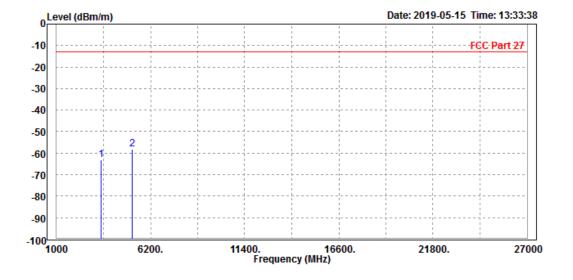
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2		3470.000 5197.500							Horizontal Horizontal





MODE	TX channel 20175 FREQUENCY RANG		Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony	ony					
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		
	3470.000 5197.500							Vertical Vertical

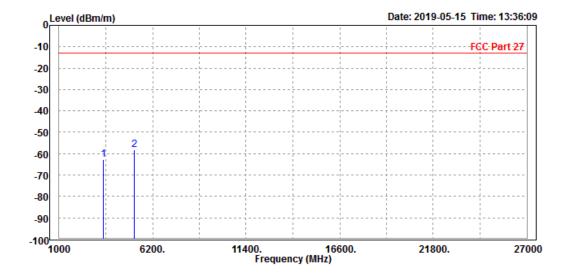




CHANNEL BANDWIDTH: 5MHz/QPSK

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

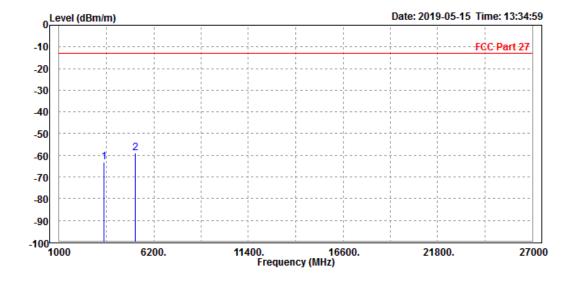
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-62.69	-64.74	-13.00	-49.69	2.05	Peak	Horizontal
2 PP	5197.500	-58.32	-66.93	-13.00	-45.32	8.61	Peak	Horizontal





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

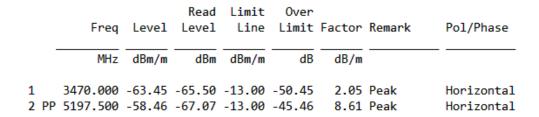
	Frea	Level		Limit Line		Factor	Remark	Pol/Phase
_								
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-63.20	-65.73	-13.00	-50.20	2.53	Peak	Vertical
2 PP	5197.500	-58.75	-66.73	-13.00	-45.75	7.98	Peak	Vertical

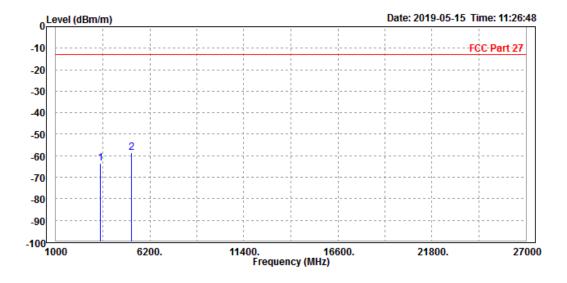




CHANNEL BANDWIDTH: 10MHz/QPSK

MODE	MODE TX channel 20175		Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	Tony	Гопу						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								

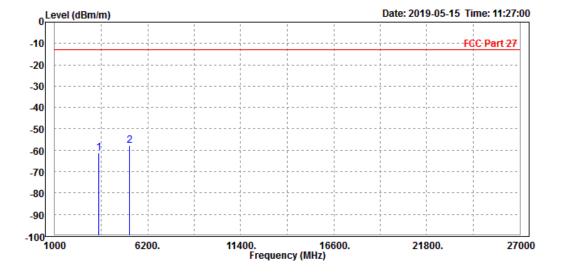






MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony						
ANTEN	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	——dB	dB/m		
	3470.000 5197.500							Vertical Vertical

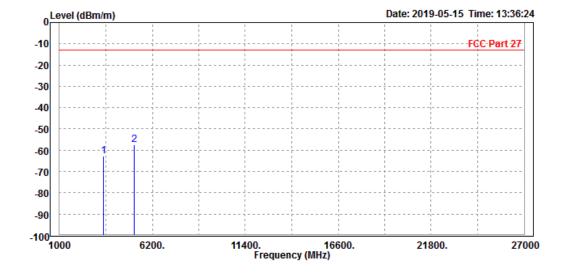




CHANNEL BANDWIDTH: 15MHz/QPSK

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

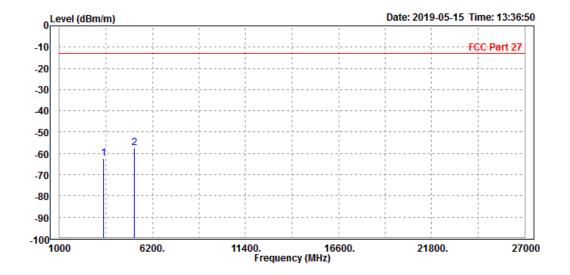
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
		abiii, iii	u.	GD,	u.b	ub/		
4	2470 000	c2 cc	CA 74	42.00	40.00	2 05	DI-	
1	3470.000	-62.66	-64./1	-13.00	-49.66	2.05	Реак	Horizontal
2 PP	5197.500	-57.29	-65.90	-13.00	-44.29	8.61	Peak	Horizontal





MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony						
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		
	3470.000 5197.500							Vertical Vertical



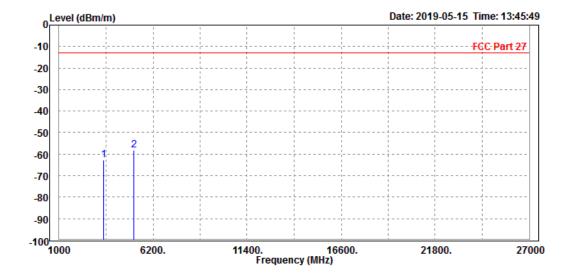


CHANNEL BANDWIDTH: 20MHz / QPSK

CH 20050

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

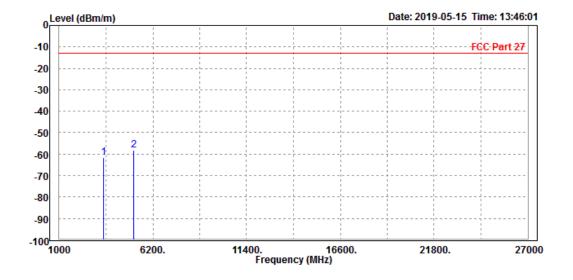
Pol/Phase	Remark	Factor		Limit Line		Level	Freq	
		dB/m	dB	dBm/m	dBm	dBm/m	MHz	
Horizontal Horizontal							3444.000 5160.000	1 2 PF





MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony						
ANTEN	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	3444.000 5160.000							Vertical Vertical

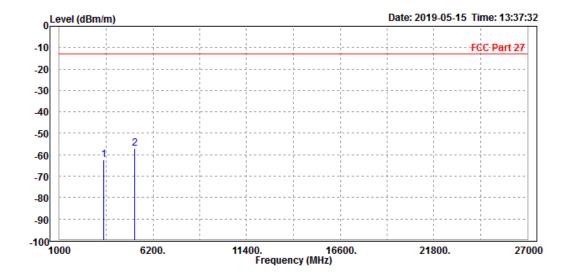




CH 20175

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

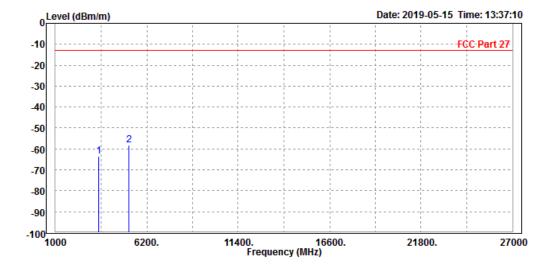
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-62.39	-64.44	-13.00	-49.39	2.05	Peak	Horizontal
2 PP	5197.500	-57.16	-65.77	-13.00	-44.16	8.61	Peak	Horizontal





MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony						
ANTEN	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		
	3470.000 5197.500							Vertical Vertical

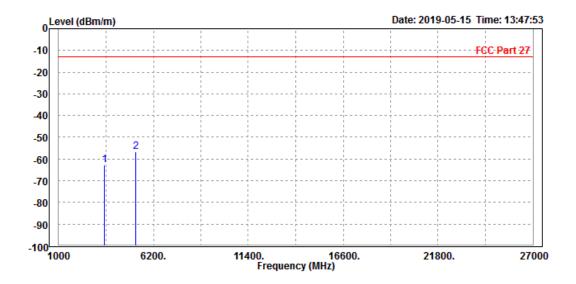




CH 20300

MODE	TX channel 20300	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	TESTED BY Tony							
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								

	Freq	Read Limit Over eq Level Level Line Limit Facto		Factor	Remark	Pol/Phase		
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	3496.000 5235.000							Horizontal Horizontal



BV 7Layers Communications Technology

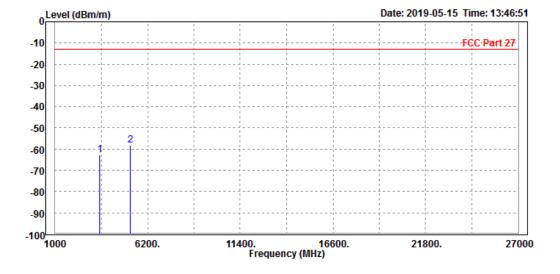
(Shenzhen) Co. Ltd

Email: <u>customerservice.dg@cn.bureauveritas.com</u>



MODE	TX channel 20300	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY Tony							
ANTEN	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 PF	3496.000 5235.000							Vertical Vertical



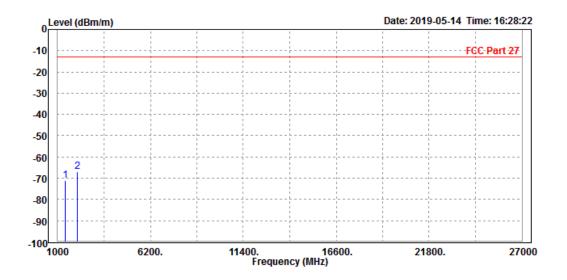


LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz/QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	TESTED BY Tony							
ANTENN	A POLARITY & TEST DIST	ANCE: HORIZONTAL AT	3 M					

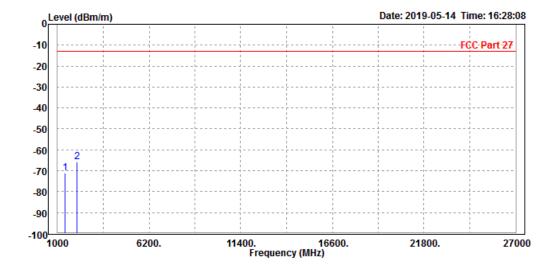
		Enga	Lovel		Limit		Factor	Remark	Pol/Phase
								Kelliai K	
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		1416.000	-71.13	-64.41	-13.00	-58.13	-6.72	Peak	Horizontal
2	PP	2122.500	-66.74	-64.81	-13.00	-53.74	-1.93	Peak	Horizontal





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

	-			Limit		-	D	D 1 (D)	
	Freq	revel	rever	Line	Limit	Factor	Remark	Pol/Phase	
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m			
1	1416.000	-71.06	-65.62	-13.00	-58.06	-5.44	Peak	Vertical	
2 PP	2122.500	-65.80	-65.56	-13.00	-52.80	-0.24	Peak	Vertical	



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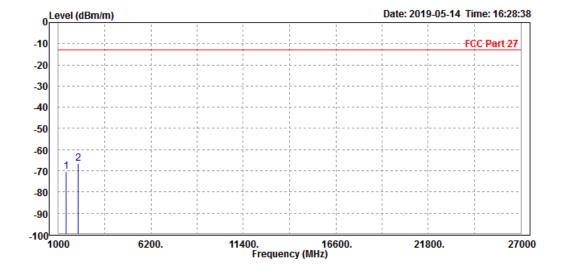
Email: customerservice.dg@cn.bureauveritas.com



CHANNEL BANDWIDTH: 3MHz / QPSK

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

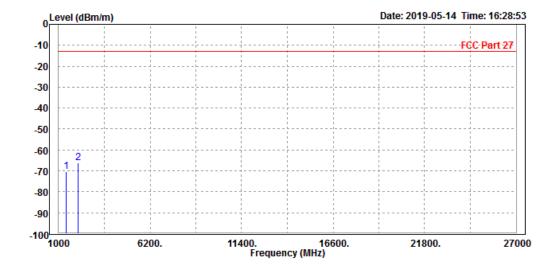
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1416.000	-70.40	-63.68	-13.00	-57.40	-6.72	Peak	Horizontal
2 PP	2122.500	-66.70	-64.77	-13.00	-53.70	-1.93	Peak	Horizontal





MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	Tony							
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		1416.000 2122.500							Vertical Vertical



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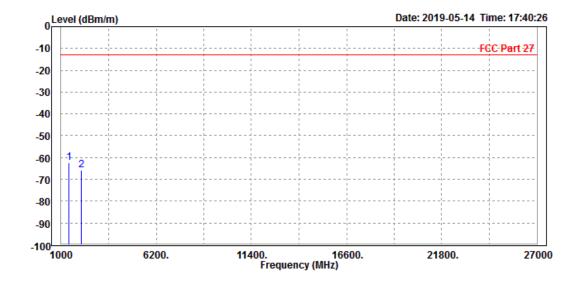


CHANNEL BANDWIDTH: 5MHz / QPSK

CH23035

MODE	TX channel 23035	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

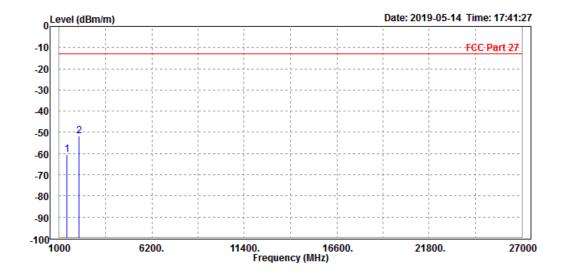
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		1416.000 2104.500							Horizontal Horizontal





MODE	TX channel 23035	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	Tony							
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 P	1416.000 P 2104.500							Vertical Vertical



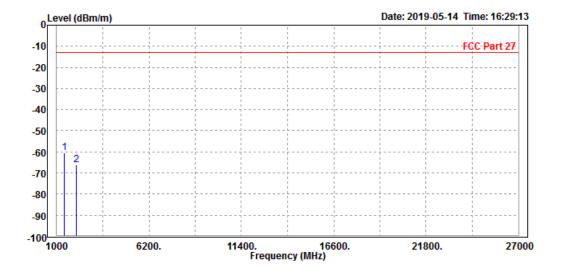
Email: <u>customerservice.dg@cn.bureauveritas.com</u>



CH 23095

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

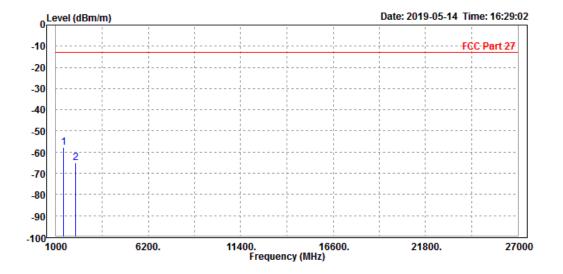
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1416.000 2122.500							Horizontal Horizontal





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

		Read	Limit	0ver			
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
•							•
MHz	dRm/m	dBm	dRm/m		dR/m		
rii 12	ubiii/ iii	ubili	ubili/ ili	ub	ub/III		
1 PP 1416.000	-57.90	-52.46	-13.00	-44.90	-5.44	Peak	Vertical
2 2122.500	-65.15	-64.91	-13.00	-52.15	-0.24	Peak	Vertical

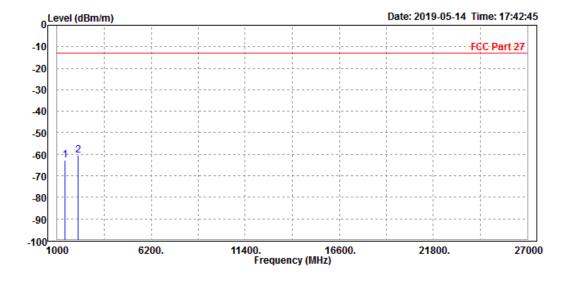




CH23155

MODE	TX channel 23155	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony	Гопу					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

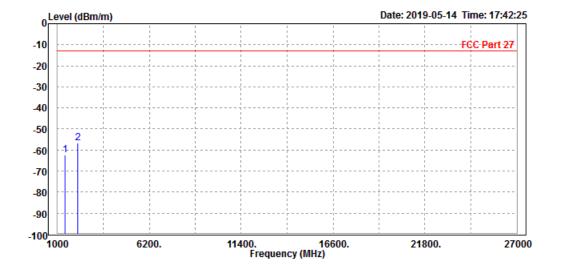
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000 2144.000							Horizontal Horizontal





MODE TX channel 23155		FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V			
TESTED BY	Tony					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

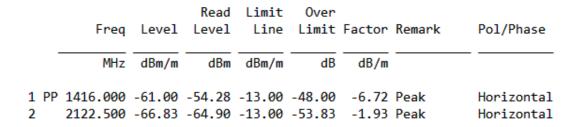
			Read	Limit	0ver				
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase	
	MHz	dBm/m	dBm	dBm/m	dB	dB/m			
1	1416.000	-62.30	-56.86	-13.00	-49.30	-5.44	Peak	Vertical	
2 PP	2140.500	-56.50	-56.26	-13.00	-43.50	-0.24	Peak	Vertical	

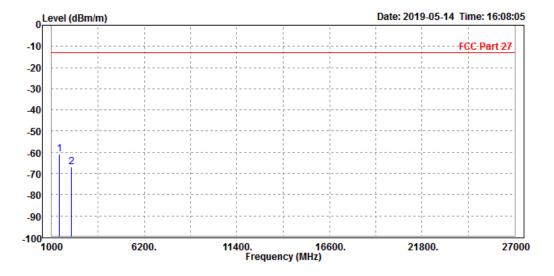




CHANNEL BANDWIDTH: 10MHz/QPSK

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

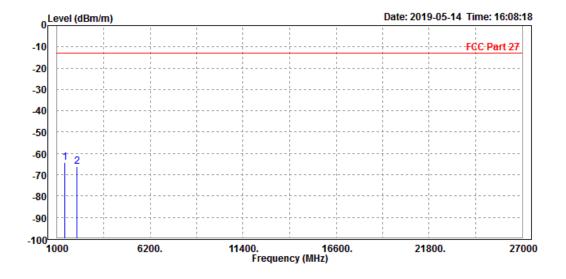






MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony	Гопу					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1416.000	-64.09	-58.65	-13.00	-51.09	-5.44	Peak	Vertical
2	2122.500	-66.05	-65.81	-13.00	-53.05	-0.24	Peak	Vertical



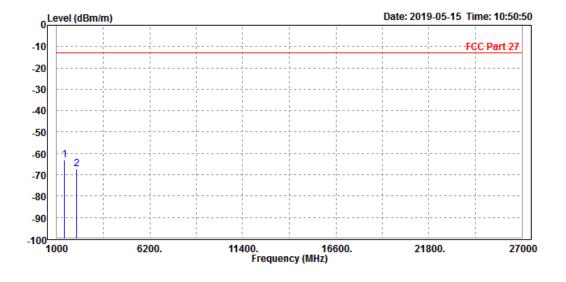


LTE Band 17

CHANNEL BANDWIDTH: 5MHz/QPSK

MODE	TX channel 23790	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	Tony	Гопу						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								

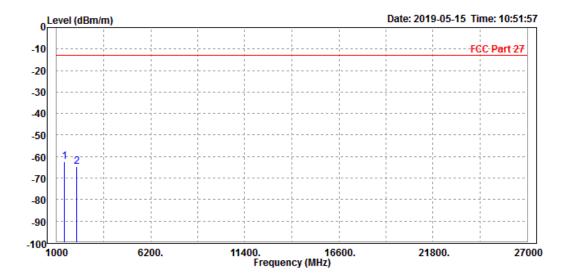
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000	-63.12	-56.40	-13.00	-50.12	-6.72	Peak	Horizontal
2		2130.000	-67.38	-65.45	-13.00	-54.38	-1.93	Peak	Horizontal





MODE	TX channel 23790	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	Tony	Tony						
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		
		1416.000							Vertical Vertical



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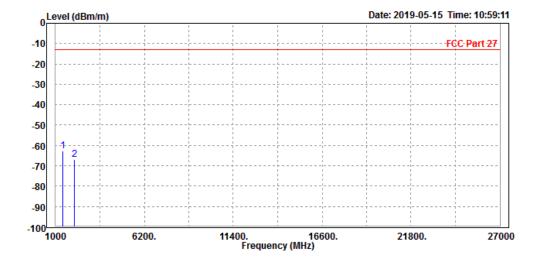


CHANNEL BANDWIDTH: 10MHz/QPSK

CH 23780

MODE	TX channel 23780	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	Tony	Tony						
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		
	1416.000 2127.000							Horizontal Horizontal

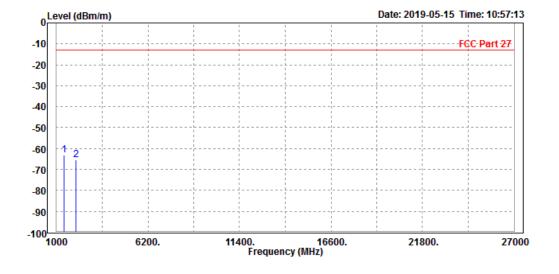


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MODE	TX channel 23780	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	Tony	Tony						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								

		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 I 2		1416.000 2127.000							Vertical Vertical

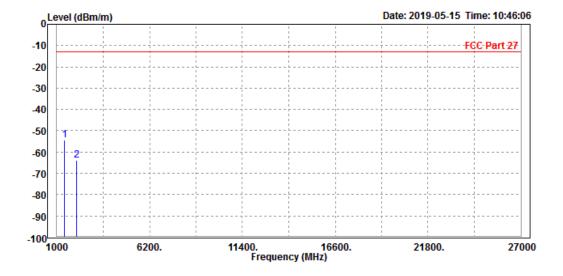




CH 23790

MODE	TX channel 23790	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	Tony	Гопу						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								

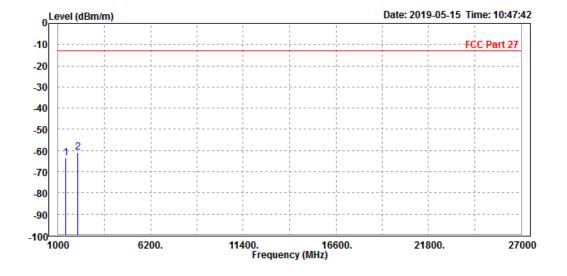
		Enoa	Lovel		Limit		Factor	Domank	Pol/Phase
		Freq	rever	revei	Line	LIMIT	ractor	Remark	FOI/Filase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000	-54.53	-47.81	-13.00	-41.53	-6.72	Peak	Horizontal
2		2130.000							Horizontal





MODE	TX channel 23790	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	Tony	Tony						
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		1420.000	-63 60	_58 19	_13 00	-50 60	_5 /11	Poak	Vertical
-	-	1420.000	-05.00	-50.15	-13.00	-50.00	-3.41	I Cak	AEL CICAT
2	PP	2130.000	-60.95	-60.71	-13.00	-47.95	-0.24	Peak	Vertical

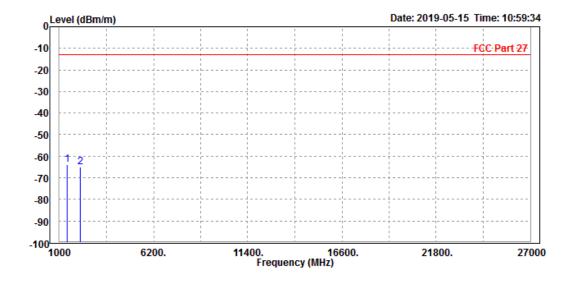




CH 23800

MODE	TX channel 23800	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V				
TESTED BY	Tony						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

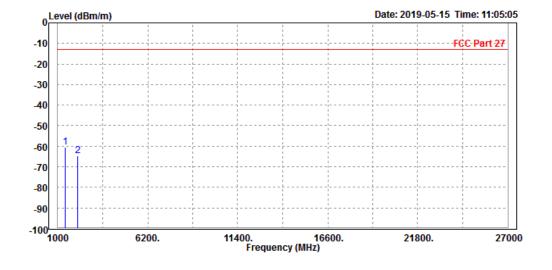
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1416.000 2133.000							Horizontal Horizontal





MODE	TX channel 23800	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V					
TESTED BY	Tony							
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								

		Enog	Lovol		Limit		Factor	Remark	Pol/Phase
				Level				- Kelliai K	
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1422.000	-60.60	-55.20	-13.00	-47.60	-5.40	Peak	Vertical
2		2133.000	-64.78	-64.54	-13.00	-51.78	-0.24	Peak	Vertical





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:

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Email: customerservice.dg@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 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.

---END---