



F	CC REPORT						
Report Reference No	TRE1705024002 R/C: 56702						
FCC ID:	ZSW-30-034						
Applicant's name:	b mobile HK Limited						
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.						
Manufacturer	b mobile HK Limited						
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.						
Test item description:	Mobile Phone						
Trade Mark	Bmobile						
Model/Type reference	AX1045e						
Listed Model(s):							
Standard :	FCC Part 22: PUBLIC MOBILE SERVICES FCC Part 24:PERSONAL COMMUNICATIONS SERVICES FCC Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES						
Date of receipt of test sample	May.25, 2017						
Date of testing	May.26, 2017- Jun.21, 2017						
Date of issue							
	Jun.22, 2017						
Result	Pass						
Result: Compiled by (position+printedname+signature):	Pass						
Compiled by	Pass						
Compiled by (position+printedname+signature): Supervised by	Pass						
Compiled by (position+printedname+signature): Supervised by (position+printedname+signature):	Pass File administrators Candy Liu						
Compiled by (position+printedname+signature): Supervised by (position+printedname+signature): Approved by	Pass						
Compiled by (position+printedname+signature): Supervised by (position+printedname+signature): Approved by (position+printedname+signature):	Pass Candy Live File administrators Candy Live Candy Live Project Engineer Lion Cai Crown Car Manager Hans Hu Mouns mu						

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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Test standards and Report version

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Part 22: PRIVATE LAND MOBILE RADIO SERVICES.

FCC Part 24: PUBLIC MOBILE SERVICES

FCC Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

TIA/EIA 603 D June 2010: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS

<u>971168 D01 Power Meas License Digital Systems v02r02</u>: provides a methodology for fully characterizing the fundamental power of wideband (> 1 MHz) digitally modulated RF signals acceptable to the FCC for demonstrating compliance for licensed transmitters.

1.2. Report version

Version No.	Date of issue	Description
00	Jun.22, 2017	Original

2. Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b)	Pass
Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass
Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass
ERP and EIRP	Part 22.913(a) Part 24.232(b)	Pass
Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b) Part 22.255 Part 24.235 Part 27.54	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2) Part 22.255 Part 24.235 Part 27.54	Pass
Peak-Average Ratio	Part 24.232 Part 27.50	Pass

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.
Manufacturer:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.

3.2. Product Description

Name of EUT:	Mobile Phone						
Trade Mark:	Bmobile						
Model No.:	AX1045e						
Listed Model(s):	-						
IMEI:	863361016075493						
Power supply:	DC 3.7V From internal battery						
Adapter information:	Input:100-240Va.c., 50-60Hz, 0.2A Output: 5Vd.c.,1A						
Hardware version:	V01						
Software version:	3.18.19						
RF Technical Description							
FDD Band 2							
Operation Frequency:	Uplink:1850.7 MHz – 1909.3 MHz Downlink: 1930.7 MHz – 1989.3 MHz						
Channel bandwidth:	⊠1.4MHz ⊠ 3MHz ⊠ 5MHz ⊠ 10MHz ⊠15MHz						
FDD Band 4							
Operation Frequency:	Uplink:1710.7 MHz – 1754.3 MHz Downlink: 2110.7 MHz – 2154.3 MHz						
Channel bandwidth:	⊠1.4MHz ⊠ 3MHz ⊠ 5MHz ⊠ 10MHz ⊠15MHz ⊠20MHz						
FDD Band 5							
Operation Frequency:	Uplink:824.7 MHz – 848.3 MHz Downlink: 869.7 MHz – 893.3 MHz						
Channel bandwidth:	⊠1.4MHz ⊠ 3MHz ⊠ 5MHz ⊠ 10MHz □15MHz □20MHz						
FDD Band 7							
Operation Frequency:	Uplink:2502.5 MHz – 2567.5 MHz Downlink: 2622.5 MHz – 2687.5 MHz						
Channel bandwidth:	□1.4MHz □ 3MHz □ 5MHz □ 10MHz □15MHz □20MHz						
Power Class:	□ Class 1 □ Class 2 □ Class 3 □ Class 4						
Modulation type:	QPSK 🛛 16QAM 🗌 64QAM						
Antennna type:	IntegralAntennna						
Antenna gain:	Band 2: -0.5 dBi, Band 4: -0.6 dBi, Band 5: -0.6 dBi, Band 7: -0.4 dBi						

3.3. Operation state

Test frequency list

Test Fr	equency	Bandwidth	NUL	Frequency of	NDL	Frequency of
	D	[MHz]		Uplink [MHz]		Downlink
						[MHz]
		1.4	18607	1850.7	607	1930.7
		3	18615	1851.5	615	1931.5
Low	Range	5	18625	1852.5	625	1932.5
LOW	Range	10	18650	1855	650	1935
		15 ^[1]	18675	1857.5	675	1937.5
		20 [1]	18700	1860	700	1940
Mid F	Range	1.4/3/5/10 15 ^[1] /20 ^[1]	18900	1880	900	1960
		1.4	19193	1909.3	1193	1989.3
		3	19185	1908.5	1185	1988.5
	_	5	19175	1907.5	1175	1987.5
High	Range	10	19150	1905	1150	1985
		15 ¹⁰	19125	1902.5	1125	1982.5
		20 [1]	19100	1900	1100	1980
NOTE 1	Bandwidth	for which a relaxation				
		7] Clause 7.3) is allo			,,	
Test Fre	quency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
		1.4	19957	1710.7	1957	2110.7
		3	19965	1711.5	1965	2111.5
1	D	5	19975	1712.5	1975	2112.5
LOW	Range	10	20000	1715	2000	2115
		15	20025	1717.5	2025	2117.5
		20	20050	1720	2050	2120
Mid	Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
		1.4	20393	1754.3	2393	2154.3
		3	20385	1753.5	2385	2153.5
Lind	Danga	5	20375	1752.5	2375	2152.5
Fign	Range	10	20350	1750	2350	2150
		15	20325	1747.5	2325	2147.5
		20	20300	1745	2300	2145
		•	·			
						1
	quency ID	Bandwidth	NUL	Frequency of	NDL	Frequency of
	quency ID	[MHz]		Uplink [MHz]		Downlink [MHz]
	quency ID	[MHz] 1.4	20407	Uplink [MHz] 824.7	2407	Downlink [MHz] 869.7
Test Fre		[MHz] 1.4 3	20407 20415	Uplink [MHz] 824.7 825.5	2407 2415	Downlink [MHz] 869.7 870.5
Test Fre	quency ID Range	[MHz] 1.4 3 5	20407 20415 20425	Uplink [MHz] 824.7 825.5 826.5	2407 2415 2425	Downlink [MHz] 869.7 870.5 871.5
Test Fre		[MHz] <u>1.4</u> <u>3</u> <u>5</u> 10 ^[1]	20407 20415	Uplink [MHz] 824.7 825.5	2407 2415	Downlink [MHz] 869.7 870.5
Test Fre		[MHz] 1.4 3 5	20407 20415 20425 20450 20525	Uplink [MHz] 824.7 825.5 826.5 829 836.5	2407 2415 2425	Downlink [MHz] 869.7 870.5 871.5 874 881.5
Test Fre	Range	[MHz] <u>1.4</u> <u>3</u> <u>5</u> 10 ^[1]	20407 20415 20425 20450	Uplink [MHz] 824.7 825.5 826.5 829	2407 2415 2425 2450	Downlink [MHz] 869.7 870.5 871.5 874
Test Fre Low Mid	Range Range	[MHz] 1.4 3 5 10 ^[1] 1.4/3/5 10 ^[1] 1.4 3	20407 20415 20425 20450 20525	Uplink [MHz] 824.7 825.5 826.5 829 836.5	2407 2415 2425 2450 2525	Downlink [MHz] 869.7 870.5 871.5 874 881.5
Test Fre Low Mid	Range	[MHz] 1.4 3 5 10 ^[1] 1.4/3/5 10 ^[1] 1.4 3 5	20407 20415 20425 20450 20525 20643	Uplink [MHz] 824.7 825.5 826.5 829 836.5 848.3	2407 2415 2425 2450 2525 2643	Downlink [MHz] 869.7 870.5 871.5 874 881.5 893.3
Test Fre Low Mid	Range Range Range	[MHz] 1.4 3 5 10 ^[1] 1.4/3/5 10 ^[1] 1.4 3	20407 20415 20425 20450 20525 20643 20635 20625 20600	Uplink [MHz] 824.7 825.5 826.5 829 836.5 848.3 847.5 846.5 844	2407 2415 2425 2450 2525 2643 2635 2635 2625 2600	Downlink [MHz] 869.7 870.5 871.5 874 881.5 893.3 892.5 891.5 889

Test Frequency ID) Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	20775	2502.5	2775	2622.5
Low Dongo	10	20800	2505	2800	2625
Low Range	15	20825	2507.5	2825	2627.5
	20 [1]	20850	2510	2850	2630
Mid Range	5/10/15 20 ^[1]	21100	2535	3100	2655
	5	21425	2567.5	3425	2687.5
High Dange	10	21400	2565	3400	2685
High Range	15	21375	2562.5	3375	2682.5
1	20 [1]	21350	2560	3350	2680

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3.4. EUT operation mode

For RF test items

The EUT has been tested under typical operating condition. The Applicant providessoftware to control the EUT for staying in continoustransmitting and receiving mode for testing.

Test	_	Bandwidth (MHz)					Modulation RB #				Test Channel				
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	н
	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Max OutputPower	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
OutputPower	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	2	v	v	v	v	v	v	v	v			v	v	v	v
	4	v	v	v	v	v	v	v	v			v	v	v	v
	5	v	v	v	v	-	-	v	v			v	v	v	v
	7	-	-	v	v	v	v	v	v			v	v	v	v
	2	v	v	v	v	v	v	v	v	v		v	v		v
Conducted	4	v	v	v	v	v	v	v	v	v		v	v		v
Band Edge	5	v	v	v	v	-	-	v	v	v		v	v		v
	7	-	-	v	v	v	v	v	v	v		v	v		v
	2	v	v	v	v	v	v	v	v	v			v	v	v
Conducted	4	v	v	v	v	v	v	v	v	v			v	v	v
Spurious Emission	5	v	v	v	v	-	-	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v
	2	v	v	v	v	v	v	v	v	v			v	v	v
E.R.P./	4	v	v	v	v	v	v	v	v	v			v	v	v
E.I.R.P.	5	v	v	v	v	-	-	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v
	2	v	v	v	v	v	v	v		v			v	v	v
Radiated Spurious	4	v	v	v	v	v	v	v		v			v	v	v
Emission	5	v	v	v	v	-	-	v		v			v	v	v
	7	-	-	v	v	v	v	v		v			v	v	v
	2						v	v	v			v		v	
Frequency	4						v	v	v			v		v	
Stability	5				v			v	v			v		v	
	7						v	v	v			v		v	
	2						v	v	v	v		v	v	v	v
Peak-to-	4						v	v	v	v		v	v	v	v
AverageRatio	5				v			v	v	v		v	v	v	v
	7						v	v	v	v		v	v	v	v
Remark	2. Th 3. Th d	e mark " e device	-"means is inves	s that this stigatedf	s bandw rom 30N	ridth is no 1Hz to10	ot suppo times o	ffundame	ng ntal signal f Subsequer	or radia htly, only	ted spuri the wor	ious emi st case e	ssion te emissior	st und is are	er

3.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- \bigcirc supplied by the lab

	Length (m) :	/
	Shield :	/
	Detachable :	/
	Manufacturer :	/
	Model No. :	/

3.6. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory:Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until March 31, 2017.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 317478, Renewal date Jul. 18, 2014, valid time is until Jul. 18, 2017.

IC-Registration No.: 5377B

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on Dec.03, 2014, valid time is until Dec. 03, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Equipments Used during the Test

	Output Power(Conducted) & Occupied Bandwidth & Emission Bandwidth & Band Edge								
Compliance&Conducted Spurious Emission									
No.	Equipment Manufacturer Model No. SerialNo. Last Cal.								
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13				
2	WIDEB.RADIO COMM.TESRER	Rohde&Schwarz	CMW500	1201.0002K50	2016/11/13				
3	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13				
4	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13				

Frequei	Frequency Stability								
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.				
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13				
2	WIDEB.RADIO COMM.TESRER	Rohde&Schwarz	CMW500	1201.0002K50	2016/11/13				
3	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13				
4	Climate Chamber	ESPEC	EL-10KA	05107008	2016/11/13				
5	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13				

Output	Power (Radiated) & Radiated	Spurious Emission			
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Pobdex Schwarz (112012	2016/11/13
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
3	HORNANTENNA	ShwarzBeck	9120D	1012	2016/11/13
4	HORNANTENNA	ShwarzBeck	9120D	1011	2016/11/13
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
6	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	539	2016/11/13
7	TURNTABLE	MATURO	TT2.0		2016/11/13
8	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
9	EMI Test Software	Audix	E3	N/A	N/A
10	EMI Test Receiver	Rohde&Schwarz	ESIB 26	100009	2016/11/13
11	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/0017	2016/11/13
12	High pass filter Compliance Dire systems		BSU-6	34202	2016/11/13
13	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13
14	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
15	Horn Antenna	SCHWARZBECK	BBHA9170	25842	2016/11/13
16	Preamplifier	ShwarzBeck	BBV 9718	BBV 9718	2016/11/13
17	Broadband Preamplifier	ShwarzBeck	BBV743	9743-0079	2016/11/13
18	Signal Generator	Rohde&Schwarz	SMF100A	101932	2016/11/13
19	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
20	TURNTABLE	ETS	2088	2149	2016/11/13
21	ANTENNA MAST	ETS	2075	2346	2016/11/13
22	HORNANTENNA	Rohde&Schwarz	HF906	100068	2016/11/13
23	HORNANTENNA	Rohde&Schwarz	HF906	100039	2016/11/13
24	WIDEB.RADIO COMM.TESRER	R&S	CMW500	1201.0002K50	2016/11/13

The calibration interval was one year.

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature/Tnor:	15~35°C		
lative Humidity	30~60 %		
Air Pressure	950-1050 hPa		

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongweilaboratory is reported:

Test Items	MeasurementUncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)
Emission Mask		(1)
Modulation Characteristic		(1)
Transmitter Frequency Behavior		(1)

 This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

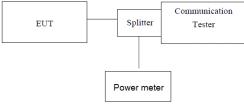
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

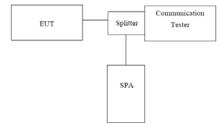
☑ Passed □ Not Applicable

EUT Mode	Frequency (MHz)	Max Avg.Power QPSK (dBm)	Max Avg.Power 16QAM (dBm)	
LTE Band 2	1850.7-1909.3	22.35	22.34	
LTE Band 4	1710.7 – 1754.3	22.43	21.63	
LTE Band 5	824.7 – 848.3	22.14	21.40	
LTE Band 7	2502.5 – 2567.5	22.25	22.50	

5.2. 99% & -26 dB Occupied Bandwidth

N/A

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
- 2. RBWwas set to about 1% of emission BW, VBW= 3 times RBW.
- 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

LTE Band 2						
Bandwidth	Channel	99% Occupy bandwidth (MHz)		-26dB bandwidth (MHz)		
Danuwiutri		QPSK	16QAM	QPSK	16QAM	
	Low	1.12	1.11	1.52	1.58	
1.4MHz	Mid	1.11	1.13	1.52	1.58	
	High	1.12	1.13	1.56	1.60	
	Low	2.69	2.68	3.02	3.04	
3MHz	Mid	2.69	2.69	3.04	3.06	
	High	2.69	2.68	3.06	3.06	
	Low	4.53	4.56	5.34	5.46	
5MHz	Mid	4.55	4.53	5.42	5.34	
	High	4.52	4.58	5.33	5.54	
	Low	8.95	8.97	9.84	10.03	
10MHz	Mid	8.97	8.97	9.88	9.86	
	High	8.97	8.97	10.02	10.01	
	Low	13.49	13.55	15.36	15.34	
15MHz	Mid	13.55	13.55	15.39	15.08	
	High	13.52	13.55	15.57	15.44	
	Low	17.98	18.06	20.19	20.21	
20MHz	Mid	18.02	18.06	20.30	20.38	
	High	18.02	17.98	20.24	20.20	

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LTE Band 4						
Bandwidth	Channel	99% Occupy bandwidth (MHz)		-26dB bandwidth (MHz)		
Danowidin		QPSK	16QAM	QPSK	16QAM	
	Low	1.12	1.11	1.50	1.60	
1.4MHz	Mid	1.11	1.13	1.49	1.56	
	High	1.12	1.12	1.56	1.63	
	Low	2.69	2.68	2.99	3.02	
3MHz	Mid	2.69	2.69	3.04	3.04	
	High	2.69	2.69	3.04	3.07	
	Low	4.53	4.56	5.40	5.40	
5MHz	Mid	4.55	4.54	5.38	5.34	
	High	4.52	4.57	5.29	5.53	
	Low	8.95	8.95	9.87	9.98	
10MHz	Mid	8.97	8.95	9.86	9.81	
	High	8.97	8.97	10.01	10.11	
	Low	13.49	13.55	15.27	15.31	
15MHz	Mid	13.49	13.52	15.27	15.08	
	High	13.55	13.52	15.49	14.85	
	Low	17.90	17.98	19.85	19.89	
20MHz	Mid	17.94	17.98	19.92	19.97	
	High	18.02	17.94	20.07	19.95	

LTE Band 5						
Bandwidth	Channel	99% Occupy ba	ndwidth (MHz)	-26dB bandwidth (MHz)		
Danuwidth		QPSK	16QAM	QPSK	16QAM	
	Low	1.10	1.09	1.30	1.28	
1.4MHz	Mid	1.11	1.11	1.33	1.32	
	High	1.10	1.10	1.32	1.32	
	Low	2.69	2.68	2.91	2.94	
3MHz	Mid	2.70	2.70	3.00	2.98	
	High	2.69	2.68	2.95	2.93	
	Low	4.53	4.51	5.17	5.09	
5MHz	Mid	4.56	4.53	5.17	5.16	
	High	4.51	4.54	5.07	5.09	
	Low	8.94	8.92	9.78	9.74	
10MHz	Mid	9.00	8.96	10.02	9.83	
	High	8.94	8.94	9.79	9.76	

LTE Band 7						
Bandwidth	Channel	99% Occupy bandwidth (MHz)		-26dB bandwidth (MHz)		
Danuwiuth		QPSK	16QAM	QPSK	16QAM	
	Low	4.54	4.57	5.51	5.49	
5MHz	Mid	4.55	4.54	5.47	5.45	
	High	4.53	4.57	5.38	5.56	
	Low	8.95	8.97	9.96	10.00	
10MHz	Mid	8.97	8.97	10.07	9.83	
	High	8.97	8.97	10.04	9.98	
	Low	13.52	13.55	15.31	15.32	
15MHz	Mid	13.55	13.55	15.43	14.87	
	High	13.55	13.55	15.47	15.03	
	Low	18.02	18.02	19.96	20.17	
20MHz	Mid	17.94	18.02	20.07	19.97	
	High	18.02	18.02	20.08	20.15	

