



TEST REPORT

APPLICANT : Nubia Technology Co.,Ltd

PRODUCT NAME : LTE Digital Mobile Phone

MODEL NAME : NX627J

BRAND NAME : NUBIA

FCC ID : 2AHJO-NX627J

STANDARD(S) : 47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart D&H&L&M

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DIRECTORY

- 1. Technical Information 4
 - 1.1. Applicant and Manufacturer Information 4
 - 1.2. Equipment Under Test (EUT) Description 4
 - 1.3. Emission Designator 6
 - 1.4. Test Standards and Results 8
 - 1.5. Environmental Conditions 9
- 2. 47 CFR Part 2, Part 22H, Part 24E and 27D&H&L&M Requirements 10
 - 2.1. Transmitter Conducted Output Power And ERP/EIRP 10
 - 2.2. Occupied Bandwidth 96
 - 2.3. Frequency Stability 154
 - 2.4. Peak to Average Radio 158
 - 2.5. Conducted Spurious Emissions 215
 - 2.6. Band Edge 277
 - 2.7. Radiated Spurious Emissions 305
- Annex A Test Uncertainty 344
- Annex B Testing Laboratory Information 345



Change History		
Version	Date	Reason for change
1.0	2019-09-20	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Nubia Technology Co.,Ltd
Applicant Address:	10/F, Tower A, Hans Innovation Mansion, North Ring Rd., No.9018, High-Tech Park, Nanshan District, Shenzhen, China
Manufacturer:	Nubia Technology Co.,Ltd
ManufacturerAddress:	10/F, Tower A, Hans Innovation Mansion, North Ring Rd., No.9018, High-Tech Park, Nanshan District, Shenzhen, China

1.2. Equipment Under Test (EUT) Description

Product Name:	LTE Digital Mobile Phone	
Serial No:	(N/A, marked #1 by test site)	
Hardware Version:	NX627J_V1MB	
Software Version:	NX627J_ENCommon_V1.00	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 2 / 4 / 5 / 7/ 12 / 17	
Frequency Range:	LTE Band 2	Tx: 1850.7MHz -1909.3MHz
		Rx: 1930.7MHz -1989.3MHz
	LTE Band 4	Tx: 1710.7MHz -1754.3MHz
		Rx: 2110.7MHz - 2154.3MHz
	LTE Band 5	Tx: 824.7MHz -848.3MHz
		Rx: 869.7MHz – 893.3MHz
	LTE Band 7	Tx: 2502.5MHz - 2567.5MHz
		Rx: 2622.5MHz– 2687.5MHz
	LTE Band 12	Tx: 699.7MHz - 715.3MHz
		Rx: 729.7MHz– 745.3MHz
	LTE Band 17	Tx: 706.5MHz - 713.5MHz
		Rx: 736.5MHz– 743.5MHz
Channel Bandwidth	LTE Band 2	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 4	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 5	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 7	5 MHz, 10MHz, 15 MHz, 20 MHz



	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 17	5 MHz, 10MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	Top Antenna	
	LTE Band 2	1.22 dBi
	LTE Band 4	1.34 dBi
	LTE Band 5	1.36 dBi
	LTE Band 7	1.80 dBi
	LTE Band 12	1.55 dBi
	LTE Band 17	1.41 dBi
Antenna Gain:	Bottom Antenna	
	LTE Band 2	1.22 dBi
	LTE Band 4	1.34 dBi
	LTE Band 5	1.36 dBi
	LTE Band 7	1.80 dBi
	LTE Band 12	1.55 dBi
	LTE Band 17	1.41 dBi
Accessory Information:	Battery	
	Brand Name:	ATL
	Model No.:	Li3839T44P6h866443
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	3900mAh
	Rated Voltage:	3.82V
	Charge Limit:	4.40V
	AC Adapter 1	
	Brand Name:	N/A
	Model No.:	CYNBY090200-A00
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V~50/60Hz 0.5A
	Rated Output:	5V=3.0A or 9V=2.0A or 12V=1.5A

Note 1: For a more detailed description, please refer to Specification or User’s Manual supplied by the applicant and/or manufacturer.



1.3. Emission Designator

LTE Band2	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M10W7D	1M10D7W
3	2M70G7D	2M70W7D	2M70D7W
5	4M50G7D	4M51W7D	4M51D7W
10	9M01G7D	8M97W7D	8M98D7W
15	13M5G7D	13M5W7D	13M5D7W
20	18M0G7D	18M0W7D	18M0D7W
LTE Band4	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M10G7D	1M10W7D	1M10D7W
3	2M70G7D	2M70W7D	2M70D7W
5	4M51G7D	4M51W7D	4M51D7W
10	9M0G7D	8M99W7D	8M97D7W
15	13M5G7D	13M5W7D	13M5D7W
20	18M0G7D	18M0W7D	18M0D7W
LTE Band5	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M10W7D	1M10D7W
3	2M71G7D	2M70W7D	2M70D7W
5	4M50G7D	4M51W7D	4M51D7W
10	9M02G7D	8M97W7D	8M97D7W
LTE Band7	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M51G7D	4M51W7D	4M49D7W
10	9M02G7D	8M97W7D	8M99D7W
15	13M5G7D	13M5W7D	13M4D7W
20	18M0G7D	18M0W7D	18M0D7W
LTE Band12	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M10G7D	1M10W7D	1M10D7W



3	2M70G7D	2M70W7D	2M71D7W
5	4M51G7D	4M51W7D	4M51D7W
10	9M01G7D	8M97W7D	8M97D7W

LTE Band17	Emission Designator (99%OBW)			
	BW(MHz)	QPSK	16QAM	64QAM
5		4M50G7D	4M51W7D	4M50D7W
10		9M00G7D	8M96W7D	8M97D7W



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result
2.1046, 22.913(a)(2), 24.232(c), 27.50(c)(10) 27.50(d)(4), 27.50(h)(2) 27.50(a)(3)	Transmitter Conducted Output Power and ERP/EIRP	Aug 23, 2019 Sept2, 2019	Gao Mingzhou Peng Xuewei	PASS
2.1049	Occupied Bandwidth	Aug 23 to Sept2, 2019	Gao Mingzhou	PASS
2.1055, 22.355, 24.235, 27.54	Frequency Stability	Sept9, 2019	Gao Mingzhou	PASS
24.232(d), 27.50(d)(5)	Peak to Average Ratio	Aug 29 to Sept7, 2019	Gao Mingzhou	PASS
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Conducted Spurious Emissions	Aug 29 to Sept7, 2019	Gao Mingzhou	PASS
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Band Edge	Aug 29 to Sept7, 2019	Gao Mingzhou	PASS
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Radiated Spurious Emissions	Sept2 to 7, 2019	Peng Xuewei	PASS

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 (Oct 27, 2017) and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 26.5dB contains two parts that cable loss 16.5dB and Attenuator 10dB.



1.5. Environmental Conditions

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR Part 2, Part 22H, Part 24E and 27D&H&L&M Requirements

2.1. Transmitter Conducted Output Power And ERP/EIRP

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 24.232 (c) for LTE Band 2/25, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

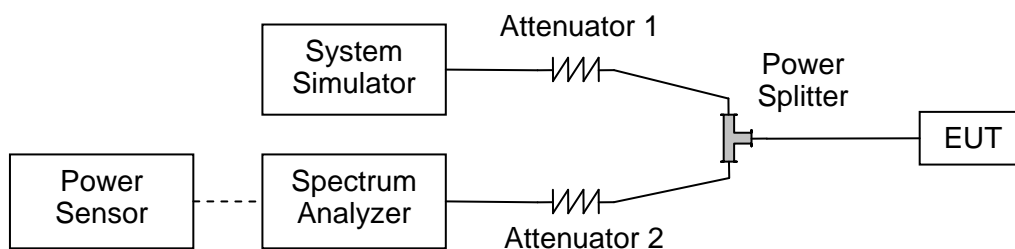
According to FCC section 27.50 (d) for LTE Band 4, fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.

According to FCC section 22.913 (a.2) for LTE Band 5/26, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h) for LTE Band 7/41, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to FCC section 27.50 (c) for LTE Band 12/17, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts ERP.

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.



2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

2.1.4. Result



**Conducted Output Power:
Top Antenna**

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	15.11	15.13	15.14
20	QPSK	1	49	15.06	15.09	15.20
20	QPSK	1	99	15.17	15.33	15.37
20	QPSK	50	0	14.28	14.30	14.30
20	QPSK	50	24	14.29	14.34	14.34
20	QPSK	50	50	14.34	14.45	14.46
20	QPSK	100	0	14.27	14.36	14.32
20	16QAM	1	0	14.33	14.33	14.35
20	16QAM	1	49	14.68	14.47	14.43
20	16QAM	1	99	14.42	14.58	14.67
20	16QAM	50	0	14.35	14.32	14.30
20	16QAM	50	24	14.31	14.36	14.37
20	16QAM	50	50	14.39	14.36	14.43
20	16QAM	100	0	14.42	14.43	14.30
20	64QAM	1	0	14.29	14.48	14.22
20	64QAM	1	49	14.24	14.42	14.33
20	64QAM	1	99	14.68	14.52	14.52
20	64QAM	50	0	13.37	13.29	13.34
20	64QAM	50	24	13.40	13.34	13.39
20	64QAM	50	50	13.39	13.40	13.34
20	64QAM	100	0	13.39	13.36	13.37

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	15.14	15.17	15.08



15	QPSK	1	37	14.93	15.29	15.17
15	QPSK	1	74	15.30	15.22	15.30
15	QPSK	36	0	14.26	14.35	14.34
15	QPSK	36	20	14.25	14.44	14.41
15	QPSK	36	39	14.37	14.38	14.35
15	QPSK	75	0	14.29	14.35	14.31
15	16QAM	1	0	14.38	14.46	14.40
15	16QAM	1	37	14.51	14.54	14.40
15	16QAM	1	74	14.46	14.58	14.58
15	16QAM	36	0	14.25	14.30	14.33
15	16QAM	36	20	14.34	14.27	14.40
15	16QAM	36	39	14.39	14.48	14.45
15	16QAM	75	0	14.26	14.28	14.37
15	64QAM	1	0	14.46	14.22	14.28
15	64QAM	1	37	14.45	14.26	14.68
15	64QAM	1	74	14.34	14.38	14.53
15	64QAM	36	0	13.19	13.36	13.24
15	64QAM	36	20	13.39	13.41	13.31
15	64QAM	36	39	13.27	13.32	13.41
15	64QAM	75	0	13.26	13.33	13.32

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	14.99	14.98	15.08
10	QPSK	1	25	15.10	15.20	15.08
10	QPSK	1	49	14.99	15.07	14.99
10	QPSK	25	0	14.25	14.26	14.22
10	QPSK	25	12	14.21	14.33	14.26
10	QPSK	25	25	14.12	14.25	14.21
10	QPSK	50	0	14.18	14.27	14.25
10	16QAM	1	0	14.66	14.59	14.58
10	16QAM	1	25	14.35	14.31	14.38
10	16QAM	1	49	14.30	14.38	14.59



10	16QAM	25	0	13.14	13.18	13.24
10	16QAM	25	12	13.32	13.28	13.27
10	16QAM	25	25	13.27	13.23	13.22
10	16QAM	50	0	13.23	13.16	13.20
10	64QAM	1	0	14.24	14.29	14.29
10	64QAM	1	25	14.27	14.32	14.36
10	64QAM	1	49	13.94	14.07	14.04
10	64QAM	25	0	13.24	13.28	13.29
10	64QAM	25	12	13.27	13.25	13.26
10	64QAM	25	25	13.20	12.98	13.20
10	64QAM	50	0	13.21	13.21	13.18

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	15.13	15.18	15.12
5	QPSK	1	12	15.12	15.23	15.10
5	QPSK	1	24	15.08	15.24	15.17
5	QPSK	12	0	14.24	14.15	14.22
5	QPSK	12	7	14.25	14.30	14.22
5	QPSK	12	13	14.24	14.23	14.26
5	QPSK	25	0	14.23	14.21	14.23
5	16QAM	1	0	14.36	14.26	14.64
5	16QAM	1	12	14.34	14.27	14.64
5	16QAM	1	24	14.37	14.24	14.63
5	16QAM	12	0	13.22	13.10	13.20
5	16QAM	12	7	13.29	13.31	13.25
5	16QAM	12	13	13.32	13.21	13.16
5	16QAM	25	0	13.24	13.22	13.20
5	64QAM	1	0	14.63	14.18	14.23
5	64QAM	1	12	14.62	14.28	14.39
5	64QAM	1	24	14.63	14.27	14.29
5	64QAM	12	0	13.28	13.21	13.20
5	64QAM	12	7	13.34	13.18	13.18



5	64QAM	12	13	13.31	13.27	13.25
5	64QAM	25	0	13.38	13.18	13.25

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	15.18	14.96	15.08
3	QPSK	1	8	15.11	15.32	15.15
3	QPSK	1	14	15.30	15.17	15.17
3	QPSK	8	0	14.24	14.19	14.21
3	QPSK	8	4	14.30	14.24	14.25
3	QPSK	8	7	14.30	14.24	14.20
3	QPSK	15	0	14.22	14.30	14.23
3	16QAM	1	0	14.38	14.29	14.23
3	16QAM	1	8	14.42	14.36	14.32
3	16QAM	1	14	14.35	14.32	14.67
3	16QAM	8	0	13.28	13.41	13.33
3	16QAM	8	4	13.35	13.32	13.38
3	16QAM	8	7	13.25	13.30	13.33
3	16QAM	15	0	13.28	13.32	13.27
3	64QAM	1	0	14.31	14.24	14.27
3	64QAM	1	8	14.73	14.72	14.32
3	64QAM	1	14	14.34	14.70	14.34
3	64QAM	8	0	13.26	13.28	13.12
3	64QAM	8	4	13.36	13.26	13.26
3	64QAM	8	7	13.46	13.35	13.21
3	64QAM	15	0	13.31	13.31	13.29

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193



Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	15.05	15.07	15.03
1.4	QPSK	1	3	15.15	15.13	15.12
1.4	QPSK	1	5	15.12	15.10	15.08
1.4	QPSK	3	0	15.11	15.11	15.07
1.4	QPSK	3	1	15.15	15.12	15.10
1.4	QPSK	3	3	15.17	15.21	15.10
1.4	QPSK	6	0	14.20	14.18	14.17
1.4	16QAM	1	0	14.23	14.23	14.17
1.4	16QAM	1	3	14.19	14.39	14.37
1.4	16QAM	1	5	14.07	14.27	13.95
1.4	16QAM	3	0	14.09	14.14	14.11
1.4	16QAM	3	1	14.27	14.09	14.14
1.4	16QAM	3	3	14.29	14.26	14.00
1.4	16QAM	6	0	13.34	13.23	13.15
1.4	64QAM	1	0	14.18	14.10	14.13
1.4	64QAM	1	3	14.20	14.41	14.29
1.4	64QAM	1	5	14.18	14.53	14.12
1.4	64QAM	3	0	14.21	14.27	14.28
1.4	64QAM	3	1	14.30	14.27	14.01
1.4	64QAM	3	3	14.22	14.36	14.13
1.4	64QAM	6	0	13.22	13.23	13.12

LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	16.08	16.06	16.20
20	QPSK	1	49	15.94	16.02	16.15
20	QPSK	1	99	15.86	15.99	16.10
20	QPSK	50	0	15.15	15.26	15.25
20	QPSK	50	24	15.15	15.23	15.23
20	QPSK	50	50	15.04	15.15	15.28
20	QPSK	100	0	15.14	15.18	15.25



20	16QAM	1	0	15.33	15.41	15.30
20	16QAM	1	49	15.48	15.25	15.39
20	16QAM	1	99	15.27	15.49	15.25
20	16QAM	50	0	14.20	14.25	14.35
20	16QAM	50	24	14.16	14.27	14.16
20	16QAM	50	50	14.12	14.13	14.13
20	16QAM	100	0	14.14	14.22	14.23
20	64QAM	1	0	15.12	15.23	15.45
20	64QAM	1	49	15.16	15.09	14.97
20	64QAM	1	99	15.43	15.00	15.47
20	64QAM	50	0	14.13	14.22	14.17
20	64QAM	50	24	14.15	14.26	14.20
20	64QAM	50	50	14.19	14.14	14.16
20	64QAM	100	0	14.22	14.20	14.29

LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	15.95	15.99	16.09
15	QPSK	1	37	15.99	16.08	16.00
15	QPSK	1	74	15.86	16.08	16.11
15	QPSK	36	0	15.09	15.16	15.19
15	QPSK	36	20	15.13	15.26	15.22
15	QPSK	36	39	15.18	15.17	15.26
15	QPSK	75	0	15.13	15.15	15.16
15	16QAM	1	0	15.21	15.43	15.15
15	16QAM	1	37	15.29	15.29	15.13
15	16QAM	1	74	15.15	15.45	15.41
15	16QAM	36	0	14.16	14.18	14.24
15	16QAM	36	20	14.11	14.18	14.24
15	16QAM	36	39	14.07	14.16	14.22
15	16QAM	75	0	14.18	14.19	14.28
15	64QAM	1	0	14.99	15.30	15.35
15	64QAM	1	37	15.41	15.17	15.23



15	64QAM	1	74	15.45	15.16	15.20
15	64QAM	36	0	14.10	14.17	14.21
15	64QAM	36	20	14.16	14.18	14.20
15	64QAM	36	39	14.19	14.15	14.17
15	64QAM	75	0	14.12	14.23	14.16

LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	15.87	16.06	15.89
10	QPSK	1	25	15.85	15.98	15.99
10	QPSK	1	49	15.93	15.76	15.99
10	QPSK	25	0	14.92	15.14	15.16
10	QPSK	25	12	15.04	15.10	15.14
10	QPSK	25	25	14.93	15.04	15.11
10	QPSK	50	0	14.99	15.09	15.01
10	16QAM	1	0	15.12	15.27	15.03
10	16QAM	1	25	15.39	15.13	15.45
10	16QAM	1	49	15.46	15.36	15.35
10	16QAM	25	0	14.12	14.11	14.10
10	16QAM	25	12	14.04	14.14	14.11
10	16QAM	25	25	14.00	13.91	14.00
10	16QAM	50	0	13.94	13.98	14.10
10	64QAM	1	0	15.04	15.12	15.02
10	64QAM	1	25	15.11	15.40	15.49
10	64QAM	1	49	15.09	15.13	15.08
10	64QAM	25	0	13.93	14.07	14.06
10	64QAM	25	12	14.02	14.13	14.17
10	64QAM	25	25	13.90	14.02	14.04
10	64QAM	50	0	13.96	14.03	14.02

LTE Band4



BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	15.77	15.99	16.04
5	QPSK	1	12	15.83	15.98	15.95
5	QPSK	1	24	15.78	15.90	15.89
5	QPSK	12	0	15.00	15.00	15.04
5	QPSK	12	7	15.00	15.11	15.08
5	QPSK	12	13	14.95	15.12	15.04
5	QPSK	25	0	14.98	15.02	15.08
5	16QAM	1	0	15.02	15.43	15.11
5	16QAM	1	12	15.13	15.48	15.07
5	16QAM	1	24	15.07	15.42	15.02
5	16QAM	12	0	14.06	14.00	14.03
5	16QAM	12	7	14.09	14.13	14.11
5	16QAM	12	13	13.98	14.05	14.09
5	16QAM	25	0	13.99	14.10	14.03
5	64QAM	1	0	15.00	15.44	15.42
5	64QAM	1	12	15.38	15.14	15.41
5	64QAM	1	24	15.34	15.04	15.11
5	64QAM	12	0	14.01	14.08	14.10
5	64QAM	12	7	14.00	14.09	14.15
5	64QAM	12	13	14.01	14.07	14.06
5	64QAM	25	0	13.96	14.10	14.01

LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	15.89	15.90	16.02
3	QPSK	1	8	15.98	16.12	16.06
3	QPSK	1	14	15.78	15.97	15.97
3	QPSK	8	0	14.98	15.04	15.05



3	QPSK	8	4	15.04	15.12	15.14
3	QPSK	8	7	15.00	15.10	15.10
3	QPSK	15	0	15.00	15.06	15.00
3	16QAM	1	0	15.22	15.31	15.35
3	16QAM	1	8	15.44	15.44	15.18
3	16QAM	1	14	15.35	15.13	15.21
3	16QAM	8	0	14.02	14.15	14.02
3	16QAM	8	4	14.14	14.24	14.21
3	16QAM	8	7	14.08	14.16	14.20
3	16QAM	15	0	14.08	14.06	14.13
3	64QAM	1	0	14.99	15.08	15.06
3	64QAM	1	8	15.18	15.06	15.22
3	64QAM	1	14	14.99	15.06	14.89
3	64QAM	8	0	13.97	14.01	13.95
3	64QAM	8	4	14.09	14.07	14.11
3	64QAM	8	7	14.03	14.10	14.22
3	64QAM	15	0	13.99	14.07	13.98

LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	15.64	15.85	15.86
1.4	QPSK	1	3	15.98	15.98	16.02
1.4	QPSK	1	5	15.84	15.93	15.95
1.4	QPSK	3	0	15.92	15.89	15.88
1.4	QPSK	3	1	15.88	15.98	16.03
1.4	QPSK	3	3	15.87	15.94	15.93
1.4	QPSK	6	0	14.97	15.06	15.06
1.4	16QAM	1	0	14.94	15.41	15.07
1.4	16QAM	1	3	15.07	15.15	15.19
1.4	16QAM	1	5	15.13	15.29	15.09
1.4	16QAM	3	0	14.95	14.99	14.90
1.4	16QAM	3	1	14.96	14.99	15.01
1.4	16QAM	3	3	14.95	15.07	14.96



1.4	16QAM	6	0	14.12	13.93	14.06
1.4	64QAM	1	0	14.88	14.82	14.96
1.4	64QAM	1	3	15.14	15.12	15.24
1.4	64QAM	1	5	15.05	15.01	14.85
1.4	64QAM	3	0	14.96	14.94	15.13
1.4	64QAM	3	1	14.87	15.02	14.99
1.4	64QAM	3	3	14.93	15.10	14.98
1.4	64QAM	6	0	13.92	13.93	14.00

LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	22.22	22.23	22.04
10	QPSK	1	25	22.08	22.11	21.91
10	QPSK	1	49	22.00	22.12	21.80
10	QPSK	25	0	21.31	21.33	21.14
10	QPSK	25	12	21.28	21.30	21.05
10	QPSK	25	25	21.28	21.19	21.02
10	QPSK	50	0	21.21	21.22	20.99
10	16QAM	1	0	21.38	21.57	21.28
10	16QAM	1	25	21.61	21.64	21.32
10	16QAM	1	49	21.23	21.29	21.36
10	16QAM	25	0	20.32	20.33	20.15
10	16QAM	25	12	20.26	20.34	19.96
10	16QAM	25	25	20.29	20.22	19.95
10	16QAM	50	0	20.30	20.21	20.11
10	64QAM	1	0	21.39	21.84	21.42
10	64QAM	1	25	21.40	21.41	21.44
10	64QAM	1	49	21.41	21.45	21.49
10	64QAM	25	0	20.23	20.34	20.01
10	64QAM	25	12	20.22	20.39	20.10
10	64QAM	25	25	20.34	20.23	19.93
10	64QAM	50	0	20.30	20.26	20.12



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	21.99	22.04	21.81
5	QPSK	1	12	22.07	22.18	21.68
5	QPSK	1	24	22.07	22.02	21.74
5	QPSK	12	0	21.22	21.27	20.95
5	QPSK	12	7	21.29	21.30	21.03
5	QPSK	12	13	21.34	21.18	20.91
5	QPSK	25	0	21.25	21.21	20.97
5	16QAM	1	0	21.54	21.47	21.23
5	16QAM	1	12	21.24	21.46	21.22
5	16QAM	1	24	21.11	21.46	21.29
5	16QAM	12	0	20.20	20.29	19.98
5	16QAM	12	7	20.27	20.30	19.98
5	16QAM	12	13	20.27	20.18	19.83
5	16QAM	25	0	20.28	20.33	19.94
5	64QAM	1	0	21.35	21.00	21.34
5	64QAM	1	12	21.23	21.17	21.31
5	64QAM	1	24	21.37	21.21	20.90
5	64QAM	12	0	20.09	20.23	19.83
5	64QAM	12	7	20.13	20.29	20.07
5	64QAM	12	13	20.31	20.26	19.83
5	64QAM	25	0	20.19	20.26	19.87

LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.



Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	21.86	22.17	21.88
3	QPSK	1	8	22.25	22.13	21.93
3	QPSK	1	14	22.21	22.11	21.85
3	QPSK	8	0	21.15	21.28	20.90
3	QPSK	8	4	21.29	21.35	20.90
3	QPSK	8	7	21.24	21.26	20.93
3	QPSK	15	0	21.22	21.28	20.87
3	16QAM	1	0	21.24	21.62	21.42
3	16QAM	1	8	21.67	21.43	21.27
3	16QAM	1	14	21.61	21.48	21.23
3	16QAM	8	0	20.18	20.27	20.01
3	16QAM	8	4	20.34	20.45	20.02
3	16QAM	8	7	20.26	20.32	20.06
3	16QAM	15	0	20.20	20.22	19.77
3	64QAM	1	0	21.15	21.03	21.24
3	64QAM	1	8	21.03	21.27	20.78
3	64QAM	1	14	21.05	21.23	20.91
3	64QAM	8	0	20.15	20.25	19.91
3	64QAM	8	4	20.37	20.21	19.84
3	64QAM	8	7	20.32	20.24	19.88
3	64QAM	15	0	20.21	20.31	19.78

LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.07	22.14	21.65
1.4	QPSK	1	3	22.20	22.21	21.77
1.4	QPSK	1	5	22.09	22.03	21.71
1.4	QPSK	3	0	22.10	22.16	21.69
1.4	QPSK	3	1	22.16	22.21	21.85
1.4	QPSK	3	3	22.17	22.19	21.76
1.4	QPSK	6	0	21.20	21.19	20.84



1.4	16QAM	1	0	21.50	21.14	20.97
1.4	16QAM	1	3	21.71	21.37	20.92
1.4	16QAM	1	5	21.52	21.20	20.92
1.4	16QAM	3	0	21.05	21.03	20.83
1.4	16QAM	3	1	21.08	21.35	20.87
1.4	16QAM	3	3	21.16	21.27	20.81
1.4	16QAM	6	0	20.38	20.33	19.86
1.4	64QAM	1	0	21.01	21.18	20.86
1.4	64QAM	1	3	21.32	21.33	20.94
1.4	64QAM	1	5	21.27	21.26	20.80
1.4	64QAM	3	0	20.93	21.20	20.87
1.4	64QAM	3	1	21.21	21.15	20.82
1.4	64QAM	3	3	21.11	21.28	20.98
1.4	64QAM	6	0	20.19	20.31	19.86

LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	19.29	19.33	19.36
20	QPSK	1	49	19.14	19.42	19.31
20	QPSK	1	99	19.33	19.28	19.33
20	QPSK	50	0	18.72	18.73	18.71
20	QPSK	50	24	18.58	18.55	18.45
20	QPSK	50	50	18.68	18.70	18.68
20	QPSK	100	0	18.63	18.65	18.62
20	16QAM	1	0	18.24	18.34	18.52
20	16QAM	1	49	18.39	18.25	18.53
20	16QAM	1	99	18.37	18.27	18.44
20	16QAM	50	0	17.43	17.53	17.46
20	16QAM	50	24	17.48	17.40	17.51
20	16QAM	50	50	17.56	17.61	17.44
20	16QAM	100	0	17.44	17.56	17.54
20	64QAM	1	0	18.54	18.89	18.11



20	64QAM	1	49	18.48	18.45	18.50
20	64QAM	1	99	18.46	18.51	18.42
20	64QAM	50	0	17.45	17.46	17.51
20	64QAM	50	24	17.50	17.51	17.51
20	64QAM	50	50	17.54	17.61	17.46
20	64QAM	100	0	17.47	17.44	17.56

LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	19.26	19.35	19.35
15	QPSK	1	37	19.36	19.33	19.37
15	QPSK	1	74	19.30	19.37	19.37
15	QPSK	36	0	18.61	18.70	18.72
15	QPSK	36	20	18.69	18.76	18.71
15	QPSK	36	39	18.72	18.75	18.79
15	QPSK	75	0	18.78	18.71	18.73
15	16QAM	1	0	18.74	18.85	18.92
15	16QAM	1	37	18.56	18.67	18.65
15	16QAM	1	74	18.60	18.60	18.82
15	16QAM	36	0	17.44	17.55	17.57
15	16QAM	36	20	17.51	17.54	17.53
15	16QAM	36	39	17.57	17.55	17.44
15	16QAM	75	0	17.52	17.60	17.52
15	64QAM	1	0	18.44	18.90	18.29
15	64QAM	1	37	18.34	18.49	18.58
15	64QAM	1	74	18.33	18.45	18.51
15	64QAM	36	0	17.43	17.51	17.50
15	64QAM	36	20	17.54	17.53	17.60
15	64QAM	36	39	17.58	17.49	17.51
15	64QAM	75	0	17.43	17.53	17.48



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	19.25	19.12	19.15
10	QPSK	1	25	19.28	19.18	19.20
10	QPSK	1	49	19.21	19.18	19.20
10	QPSK	25	0	18.53	18.53	18.52
10	QPSK	25	12	18.49	18.61	18.66
10	QPSK	25	25	18.42	18.60	18.60
10	QPSK	50	0	18.51	18.63	18.62
10	16QAM	1	0	18.36	18.54	18.39
10	16QAM	1	25	18.35	18.37	18.42
10	16QAM	1	49	18.82	18.72	18.63
10	16QAM	25	0	17.31	17.38	17.46
10	16QAM	25	12	17.32	17.49	17.42
10	16QAM	25	25	17.37	17.40	17.32
10	16QAM	50	0	17.40	17.49	17.34
10	64QAM	1	0	18.44	18.40	18.38
10	64QAM	1	25	18.13	18.38	18.21
10	64QAM	1	49	18.24	18.48	18.29
10	64QAM	25	0	17.35	17.33	17.37
10	64QAM	25	12	17.37	17.48	17.41
10	64QAM	25	25	17.30	17.20	17.19
10	64QAM	50	0	17.40	17.46	17.38

LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	19.08	19.13	19.26
5	QPSK	1	12	19.17	19.25	19.33



5	QPSK	1	24	19.26	19.32	19.36
5	QPSK	12	0	18.49	18.57	18.49
5	QPSK	12	7	18.56	18.71	18.63
5	QPSK	12	13	18.58	18.74	18.59
5	QPSK	25	0	18.59	18.60	18.55
5	16QAM	1	0	18.37	18.35	18.41
5	16QAM	1	12	18.42	18.64	18.54
5	16QAM	1	24	18.48	18.67	18.49
5	16QAM	12	0	17.34	17.28	17.41
5	16QAM	12	7	17.43	17.55	17.51
5	16QAM	12	13	17.53	17.59	17.42
5	16QAM	25	0	17.40	17.45	17.46
5	64QAM	1	0	18.36	18.41	18.37
5	64QAM	1	12	18.41	18.53	18.41
5	64QAM	1	24	18.45	18.55	18.51
5	64QAM	12	0	17.41	17.38	17.43
5	64QAM	12	7	17.50	17.55	17.34
5	64QAM	12	13	17.45	17.54	17.40
5	64QAM	25	0	17.40	17.39	17.44

LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	21.91	21.92	21.79
10	QPSK	1	25	21.69	21.90	21.75
10	QPSK	1	49	21.69	21.88	22.07
10	QPSK	25	0	20.94	21.04	20.95
10	QPSK	25	12	21.03	20.98	21.04
10	QPSK	25	25	20.96	21.02	20.95
10	QPSK	50	0	20.97	20.99	20.90
10	16QAM	1	0	21.34	20.89	20.95
10	16QAM	1	25	21.49	21.04	21.36
10	16QAM	1	49	21.18	21.23	21.12
10	16QAM	25	0	19.96	19.98	19.92



10	16QAM	25	12	20.00	20.04	19.93
10	16QAM	25	25	20.05	20.06	20.00
10	16QAM	50	0	19.95	20.03	20.08
10	64QAM	1	0	20.88	21.00	21.34
10	64QAM	1	25	21.32	21.38	20.97
10	64QAM	1	49	21.34	21.02	20.95
10	64QAM	25	0	19.96	19.90	19.87
10	64QAM	25	12	20.01	20.04	19.96
10	64QAM	25	25	20.06	20.03	20.03
10	64QAM	50	0	19.98	19.91	20.02

LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	21.66	21.82	21.77
5	QPSK	1	12	21.82	21.98	21.82
5	QPSK	1	24	21.78	21.97	21.83
5	QPSK	12	0	20.89	20.96	20.95
5	QPSK	12	7	21.00	21.02	20.99
5	QPSK	12	13	20.95	20.98	20.95
5	QPSK	25	0	20.91	21.03	20.99
5	16QAM	1	0	20.92	20.94	20.96
5	16QAM	1	12	21.09	21.04	21.05
5	16QAM	1	24	21.05	21.03	20.99
5	16QAM	12	0	19.90	19.87	19.90
5	16QAM	12	7	20.04	20.09	19.93
5	16QAM	12	13	19.99	19.96	20.01
5	16QAM	25	0	20.00	19.96	19.98
5	64QAM	1	0	20.86	20.87	20.92
5	64QAM	1	12	21.31	21.01	20.94
5	64QAM	1	24	21.29	20.98	21.03
5	64QAM	12	0	19.94	19.96	19.91
5	64QAM	12	7	20.04	19.92	19.98
5	64QAM	12	13	19.91	20.01	20.06



5	64QAM	25	0	20.06	20.02	19.99
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LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	21.74	21.83	21.68
3	QPSK	1	8	21.92	21.91	22.01
3	QPSK	1	14	21.86	21.97	21.92
3	QPSK	8	0	20.97	20.95	20.95
3	QPSK	8	4	21.00	21.03	21.04
3	QPSK	8	7	20.95	21.03	20.97
3	QPSK	15	0	20.94	21.02	20.88
3	16QAM	1	0	20.95	21.31	20.90
3	16QAM	1	8	21.15	21.13	21.08
3	16QAM	1	14	20.98	21.03	21.50
3	16QAM	8	0	20.06	19.95	19.98
3	16QAM	8	4	20.11	20.08	20.19
3	16QAM	8	7	19.95	19.98	20.04
3	16QAM	15	0	19.93	19.86	19.85
3	64QAM	1	0	20.87	21.21	21.20
3	64QAM	1	8	21.44	21.44	21.35
3	64QAM	1	14	21.28	20.94	21.38
3	64QAM	8	0	19.87	19.95	19.86
3	64QAM	8	4	19.96	20.00	19.99
3	64QAM	8	7	19.95	19.87	20.02
3	64QAM	15	0	19.94	19.96	19.88

LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.



Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	21.77	21.81	21.74
1.4	QPSK	1	3	21.88	21.87	21.89
1.4	QPSK	1	5	21.77	21.82	21.78
1.4	QPSK	3	0	21.72	21.85	21.83
1.4	QPSK	3	1	21.93	21.93	21.94
1.4	QPSK	3	3	21.88	21.90	21.86
1.4	QPSK	6	0	20.94	20.91	20.89
1.4	16QAM	1	0	20.98	20.92	20.61
1.4	16QAM	1	3	20.79	21.22	21.33
1.4	16QAM	1	5	20.91	20.92	20.91
1.4	16QAM	3	0	20.75	20.78	20.79
1.4	16QAM	3	1	20.91	20.99	20.83
1.4	16QAM	3	3	20.74	20.88	20.88
1.4	16QAM	6	0	19.90	19.91	19.93
1.4	64QAM	1	0	20.71	20.86	20.70
1.4	64QAM	1	3	20.83	21.34	20.81
1.4	64QAM	1	5	20.99	21.02	20.98
1.4	64QAM	3	0	20.89	20.90	20.73
1.4	64QAM	3	1	20.87	21.11	20.96
1.4	64QAM	3	3	20.89	20.73	20.89
1.4	64QAM	6	0	19.96	19.97	19.84

LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	21.72	21.80	21.66
10	QPSK	1	25	21.92	21.78	21.91
10	QPSK	1	49	21.75	21.68	21.84
10	QPSK	25	0	20.75	20.70	20.71
10	QPSK	25	12	20.95	20.89	20.87
10	QPSK	25	25	20.73	20.67	20.68
10	QPSK	50	0	20.71	20.66	20.79



10	16QAM	1	0	21.37	21.09	21.08
10	16QAM	1	25	21.00	21.06	20.98
10	16QAM	1	49	20.89	20.64	20.70
10	16QAM	25	0	19.69	19.67	19.67
10	16QAM	25	12	19.83	19.89	19.93
10	16QAM	25	25	19.68	19.71	19.80
10	16QAM	50	0	19.60	19.61	19.69
10	64QAM	1	0	21.30	20.96	20.99
10	64QAM	1	25	21.04	21.02	20.71
10	64QAM	1	49	20.98	20.98	20.99
10	64QAM	25	0	19.62	19.62	19.70
10	64QAM	25	12	19.95	19.86	19.94
10	64QAM	25	25	19.67	19.52	19.56
10	64QAM	50	0	19.62	19.74	19.68

LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23790	23155
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	21.42	21.59	21.61
5	QPSK	1	12	21.86	21.90	21.90
5	QPSK	1	24	21.74	21.68	21.70
5	QPSK	12	0	20.85	20.82	20.86
5	QPSK	12	7	20.96	21.00	21.01
5	QPSK	12	13	20.93	20.95	20.92
5	QPSK	25	0	20.94	20.83	20.87
5	16QAM	1	0	20.85	20.52	20.98
5	16QAM	1	12	21.43	20.82	21.24
5	16QAM	1	24	21.23	20.56	21.05
5	16QAM	12	0	19.81	19.86	19.84
5	16QAM	12	7	19.96	19.86	19.98
5	16QAM	12	13	19.92	19.91	19.91
5	16QAM	25	0	19.93	19.87	19.91
5	64QAM	1	0	20.52	20.69	20.77
5	64QAM	1	12	21.31	20.96	20.93



REPORT No.: SZ19070119W08

5	64QAM	1	24	21.18	20.71	20.78
5	64QAM	12	0	19.70	19.85	19.86
5	64QAM	12	7	19.95	19.88	20.02
5	64QAM	12	13	19.93	19.95	19.73
5	64QAM	25	0	19.89	19.93	19.94



Bottom Antenna

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	19.54	19.56	19.57
20	QPSK	1	49	19.49	19.52	19.63
20	QPSK	1	99	19.60	19.76	19.80
20	QPSK	50	0	18.71	18.73	18.73
20	QPSK	50	24	18.72	18.77	18.77
20	QPSK	50	50	18.77	18.88	18.89
20	QPSK	100	0	18.70	18.79	18.75
20	16QAM	1	0	18.76	18.76	18.78
20	16QAM	1	49	19.11	18.90	18.86
20	16QAM	1	99	18.85	19.01	19.10
20	16QAM	50	0	18.78	18.75	18.73
20	16QAM	50	24	18.74	18.79	18.80
20	16QAM	50	50	18.82	18.79	18.86
20	16QAM	100	0	18.85	18.86	18.73
20	64QAM	1	0	18.72	18.91	18.65
20	64QAM	1	49	18.67	18.85	18.76
20	64QAM	1	99	19.11	18.95	18.95
20	64QAM	50	0	17.80	17.72	17.77
20	64QAM	50	24	17.83	17.77	17.82
20	64QAM	50	50	17.82	17.83	17.77
20	64QAM	100	0	17.82	17.79	17.80

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	19.57	19.60	19.51
15	QPSK	1	37	19.36	19.72	19.60



15	QPSK	1	74	19.73	19.65	19.73
15	QPSK	36	0	18.69	18.78	18.77
15	QPSK	36	20	18.68	18.87	18.84
15	QPSK	36	39	18.80	18.81	18.78
15	QPSK	75	0	18.72	18.78	18.74
15	16QAM	1	0	18.81	18.89	18.83
15	16QAM	1	37	18.94	18.97	18.83
15	16QAM	1	74	18.89	19.01	19.01
15	16QAM	36	0	18.68	18.73	18.76
15	16QAM	36	20	18.77	18.70	18.83
15	16QAM	36	39	18.82	18.91	18.88
15	16QAM	75	0	18.69	18.71	18.80
15	64QAM	1	0	18.89	18.65	18.71
15	64QAM	1	37	18.88	18.69	19.11
15	64QAM	1	74	18.77	18.81	18.96
15	64QAM	36	0	17.62	17.79	17.67
15	64QAM	36	20	17.82	17.84	17.74
15	64QAM	36	39	17.70	17.75	17.84
15	64QAM	75	0	17.69	17.76	17.75

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	19.42	19.41	19.51
10	QPSK	1	25	19.53	19.63	19.51
10	QPSK	1	49	19.42	19.50	19.42
10	QPSK	25	0	18.68	18.69	18.65
10	QPSK	25	12	18.64	18.76	18.69
10	QPSK	25	25	18.55	18.68	18.64
10	QPSK	50	0	18.61	18.70	18.68
10	16QAM	1	0	19.09	19.02	19.01
10	16QAM	1	25	18.78	18.74	18.81
10	16QAM	1	49	18.73	18.81	19.02
10	16QAM	25	0	17.57	17.61	17.67



10	16QAM	25	12	17.75	17.71	17.70
10	16QAM	25	25	17.70	17.66	17.65
10	16QAM	50	0	17.66	17.59	17.63
10	64QAM	1	0	18.67	18.72	18.72
10	64QAM	1	25	18.70	18.75	18.79
10	64QAM	1	49	18.37	18.50	18.47
10	64QAM	25	0	17.67	17.71	17.72
10	64QAM	25	12	17.70	17.68	17.69
10	64QAM	25	25	17.63	17.41	17.63
10	64QAM	50	0	17.64	17.64	17.61

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	19.56	19.61	19.55
5	QPSK	1	12	19.55	19.66	19.53
5	QPSK	1	24	19.51	19.67	19.60
5	QPSK	12	0	18.67	18.58	18.65
5	QPSK	12	7	18.68	18.73	18.65
5	QPSK	12	13	18.67	18.66	18.69
5	QPSK	25	0	18.66	18.64	18.66
5	16QAM	1	0	18.79	18.69	19.07
5	16QAM	1	12	18.77	18.70	19.07
5	16QAM	1	24	18.80	18.67	19.06
5	16QAM	12	0	17.65	17.53	17.63
5	16QAM	12	7	17.72	17.74	17.68
5	16QAM	12	13	17.75	17.64	17.59
5	16QAM	25	0	17.67	17.65	17.63
5	64QAM	1	0	19.06	18.61	18.66
5	64QAM	1	12	19.05	18.71	18.82
5	64QAM	1	24	19.06	18.70	18.72
5	64QAM	12	0	17.71	17.64	17.63
5	64QAM	12	7	17.77	17.61	17.61
5	64QAM	12	13	17.74	17.70	17.68



5	64QAM	25	0	17.81	17.61	17.68
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LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	19.61	19.39	19.51
3	QPSK	1	8	19.54	19.75	19.58
3	QPSK	1	14	19.73	19.60	19.60
3	QPSK	8	0	18.67	18.62	18.64
3	QPSK	8	4	18.73	18.67	18.68
3	QPSK	8	7	18.73	18.67	18.63
3	QPSK	15	0	18.65	18.73	18.66
3	16QAM	1	0	18.81	18.72	18.66
3	16QAM	1	8	18.85	18.79	18.75
3	16QAM	1	14	18.78	18.75	19.10
3	16QAM	8	0	17.71	17.84	17.76
3	16QAM	8	4	17.78	17.75	17.81
3	16QAM	8	7	17.68	17.73	17.76
3	16QAM	15	0	17.71	17.75	17.70
3	64QAM	1	0	18.74	18.67	18.70
3	64QAM	1	8	19.16	19.15	18.75
3	64QAM	1	14	18.77	19.13	18.77
3	64QAM	8	0	17.69	17.71	17.55
3	64QAM	8	4	17.79	17.69	17.69
3	64QAM	8	7	17.89	17.78	17.64
3	64QAM	15	0	17.74	17.74	17.72

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3



1.4	QPSK	1	0	19.48	19.50	19.46
1.4	QPSK	1	3	19.58	19.56	19.55
1.4	QPSK	1	5	19.55	19.53	19.51
1.4	QPSK	3	0	19.54	19.54	19.50
1.4	QPSK	3	1	19.58	19.55	19.53
1.4	QPSK	3	3	19.60	19.64	19.53
1.4	QPSK	6	0	18.63	18.61	18.60
1.4	16QAM	1	0	18.66	18.66	18.60
1.4	16QAM	1	3	18.62	18.82	18.80
1.4	16QAM	1	5	18.50	18.70	18.38
1.4	16QAM	3	0	18.52	18.57	18.54
1.4	16QAM	3	1	18.70	18.52	18.57
1.4	16QAM	3	3	18.72	18.69	18.43
1.4	16QAM	6	0	17.77	17.66	17.58
1.4	64QAM	1	0	18.61	18.53	18.56
1.4	64QAM	1	3	18.63	18.84	18.72
1.4	64QAM	1	5	18.61	18.96	18.55
1.4	64QAM	3	0	18.64	18.70	18.71
1.4	64QAM	3	1	18.73	18.70	18.44
1.4	64QAM	3	3	18.65	18.79	18.56
1.4	64QAM	6	0	17.65	17.66	17.55

LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	20.66	20.64	20.78
20	QPSK	1	49	20.52	20.60	20.73
20	QPSK	1	99	20.44	20.57	20.69
20	QPSK	50	0	19.73	19.84	19.83
20	QPSK	50	24	19.73	19.81	19.81
20	QPSK	50	50	19.62	19.73	19.86
20	QPSK	100	0	19.72	19.76	19.83
20	16QAM	1	0	19.91	19.99	19.88



20	16QAM	1	49	20.06	19.83	19.97
20	16QAM	1	99	19.85	20.07	19.83
20	16QAM	50	0	18.78	18.83	18.93
20	16QAM	50	24	18.74	18.85	18.74
20	16QAM	50	50	18.70	18.71	18.71
20	16QAM	100	0	18.72	18.80	18.81
20	64QAM	1	0	19.70	19.81	20.03
20	64QAM	1	49	19.74	19.67	19.55
20	64QAM	1	99	20.01	19.58	20.05
20	64QAM	50	0	18.71	18.80	18.75
20	64QAM	50	24	18.73	18.84	18.78
20	64QAM	50	50	18.77	18.72	18.74
20	64QAM	100	0	18.80	18.78	18.87

LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	20.53	20.57	20.67
15	QPSK	1	37	20.57	20.66	20.58
15	QPSK	1	74	20.44	20.66	20.69
15	QPSK	36	0	19.67	19.74	19.77
15	QPSK	36	20	19.71	19.84	19.80
15	QPSK	36	39	19.76	19.75	19.84
15	QPSK	75	0	19.71	19.73	19.74
15	16QAM	1	0	19.79	20.01	19.73
15	16QAM	1	37	19.87	19.87	19.71
15	16QAM	1	74	19.73	20.03	19.99
15	16QAM	36	0	18.74	18.76	18.82
15	16QAM	36	20	18.69	18.76	18.82
15	16QAM	36	39	18.65	18.74	18.80
15	16QAM	75	0	18.76	18.77	18.86
15	64QAM	1	0	19.57	19.88	19.93
15	64QAM	1	37	19.99	19.75	19.81
15	64QAM	1	74	20.03	19.74	19.78



15	64QAM	36	0	18.68	18.75	18.79
15	64QAM	36	20	18.74	18.76	18.78
15	64QAM	36	39	18.77	18.73	18.75
15	64QAM	75	0	18.70	18.81	18.74

LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	20.45	20.64	20.47
10	QPSK	1	25	20.43	20.56	20.57
10	QPSK	1	49	20.51	20.34	20.57
10	QPSK	25	0	19.50	19.72	19.74
10	QPSK	25	12	19.62	19.68	19.72
10	QPSK	25	25	19.51	19.62	19.69
10	QPSK	50	0	19.57	19.67	19.59
10	16QAM	1	0	19.70	19.85	19.61
10	16QAM	1	25	19.97	19.71	20.03
10	16QAM	1	49	20.04	19.94	19.93
10	16QAM	25	0	18.70	18.69	18.68
10	16QAM	25	12	18.62	18.72	18.69
10	16QAM	25	25	18.58	18.49	18.58
10	16QAM	50	0	18.52	18.56	18.68
10	64QAM	1	0	19.62	19.70	19.60
10	64QAM	1	25	19.69	19.98	20.07
10	64QAM	1	49	19.67	19.71	19.66
10	64QAM	25	0	18.51	18.65	18.64
10	64QAM	25	12	18.60	18.71	18.75
10	64QAM	25	25	18.48	18.60	18.62
10	64QAM	50	0	18.54	18.61	18.60

LTE Band4



BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	20.35	20.57	20.62
5	QPSK	1	12	20.41	20.56	20.53
5	QPSK	1	24	20.36	20.48	20.47
5	QPSK	12	0	19.58	19.58	19.62
5	QPSK	12	7	19.58	19.69	19.66
5	QPSK	12	13	19.53	19.70	19.62
5	QPSK	25	0	19.56	19.60	19.66
5	16QAM	1	0	19.60	20.01	19.69
5	16QAM	1	12	19.71	20.06	19.65
5	16QAM	1	24	19.65	20.00	19.60
5	16QAM	12	0	18.64	18.58	18.61
5	16QAM	12	7	18.67	18.71	18.69
5	16QAM	12	13	18.56	18.63	18.67
5	16QAM	25	0	18.57	18.68	18.61
5	64QAM	1	0	19.58	20.02	20.00
5	64QAM	1	12	19.96	19.72	19.99
5	64QAM	1	24	19.92	19.62	19.69
5	64QAM	12	0	18.59	18.66	18.68
5	64QAM	12	7	18.58	18.67	18.73
5	64QAM	12	13	18.59	18.65	18.64
5	64QAM	25	0	18.54	18.68	18.59

LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	20.47	20.48	20.60
3	QPSK	1	8	20.56	20.70	20.64
3	QPSK	1	14	20.36	20.55	20.55
3	QPSK	8	0	19.56	19.62	19.63



3	QPSK	8	4	19.62	19.70	19.72
3	QPSK	8	7	19.58	19.68	19.68
3	QPSK	15	0	19.58	19.64	19.58
3	16QAM	1	0	19.80	19.89	19.93
3	16QAM	1	8	20.02	20.02	19.76
3	16QAM	1	14	19.93	19.71	19.79
3	16QAM	8	0	18.60	18.73	18.60
3	16QAM	8	4	18.72	18.82	18.79
3	16QAM	8	7	18.66	18.74	18.78
3	16QAM	15	0	18.66	18.64	18.71
3	64QAM	1	0	19.57	19.66	19.64
3	64QAM	1	8	19.76	19.64	19.80
3	64QAM	1	14	19.57	19.64	19.47
3	64QAM	8	0	18.55	18.59	18.53
3	64QAM	8	4	18.67	18.65	18.69
3	64QAM	8	7	18.61	18.68	18.80
3	64QAM	15	0	18.57	18.65	18.56

LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	20.22	20.43	20.44
1.4	QPSK	1	3	20.56	20.56	20.60
1.4	QPSK	1	5	20.42	20.51	20.53
1.4	QPSK	3	0	20.50	20.47	20.46
1.4	QPSK	3	1	20.46	20.56	20.61
1.4	QPSK	3	3	20.45	20.52	20.51
1.4	QPSK	6	0	19.55	19.64	19.64
1.4	16QAM	1	0	19.52	19.99	19.65
1.4	16QAM	1	3	19.65	19.73	19.77
1.4	16QAM	1	5	19.71	19.87	19.67
1.4	16QAM	3	0	19.53	19.57	19.48
1.4	16QAM	3	1	19.54	19.57	19.59
1.4	16QAM	3	3	19.53	19.65	19.54



1.4	16QAM	6	0	18.70	18.51	18.64
1.4	64QAM	1	0	19.46	19.40	19.54
1.4	64QAM	1	3	19.72	19.70	19.82
1.4	64QAM	1	5	19.63	19.59	19.43
1.4	64QAM	3	0	19.54	19.52	19.71
1.4	64QAM	3	1	19.45	19.60	19.57
1.4	64QAM	3	3	19.51	19.68	19.56
1.4	64QAM	6	0	18.50	18.51	18.58

LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	22.75	22.76	22.57
10	QPSK	1	25	22.61	22.64	22.44
10	QPSK	1	49	22.53	22.65	22.33
10	QPSK	25	0	21.84	21.86	21.67
10	QPSK	25	12	21.81	21.83	21.58
10	QPSK	25	25	21.81	21.72	21.55
10	QPSK	50	0	21.74	21.75	21.52
10	16QAM	1	0	21.91	22.10	21.81
10	16QAM	1	25	22.14	22.17	21.85
10	16QAM	1	49	21.76	21.82	21.89
10	16QAM	25	0	20.85	20.86	20.68
10	16QAM	25	12	20.79	20.87	20.49
10	16QAM	25	25	20.82	20.75	20.48
10	16QAM	50	0	20.83	20.74	20.64
10	64QAM	1	0	21.92	22.37	21.95
10	64QAM	1	25	21.93	21.94	21.97
10	64QAM	1	49	21.94	21.98	22.02
10	64QAM	25	0	20.76	20.87	20.54
10	64QAM	25	12	20.75	20.92	20.63
10	64QAM	25	25	20.87	20.76	20.46
10	64QAM	50	0	20.83	20.79	20.65



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.52	22.57	22.34
5	QPSK	1	12	22.60	22.71	22.21
5	QPSK	1	24	22.60	22.55	22.27
5	QPSK	12	0	21.75	21.80	21.48
5	QPSK	12	7	21.82	21.83	21.56
5	QPSK	12	13	21.87	21.71	21.44
5	QPSK	25	0	21.78	21.74	21.50
5	16QAM	1	0	22.07	22.00	21.76
5	16QAM	1	12	21.77	21.99	21.75
5	16QAM	1	24	21.64	21.99	21.82
5	16QAM	12	0	20.73	20.82	20.51
5	16QAM	12	7	20.80	20.83	20.51
5	16QAM	12	13	20.80	20.71	20.36
5	16QAM	25	0	20.81	20.86	20.47
5	64QAM	1	0	21.88	21.53	21.87
5	64QAM	1	12	21.76	21.70	21.84
5	64QAM	1	24	21.90	21.74	21.43
5	64QAM	12	0	20.62	20.76	20.36
5	64QAM	12	7	20.66	20.82	20.60
5	64QAM	12	13	20.84	20.79	20.36
5	64QAM	25	0	20.72	20.79	20.40

LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.



Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.39	22.70	22.41
3	QPSK	1	8	22.78	22.66	22.46
3	QPSK	1	14	22.74	22.64	22.38
3	QPSK	8	0	21.68	21.81	21.43
3	QPSK	8	4	21.82	21.88	21.43
3	QPSK	8	7	21.77	21.79	21.46
3	QPSK	15	0	21.75	21.81	21.40
3	16QAM	1	0	21.77	22.15	21.95
3	16QAM	1	8	22.20	21.96	21.80
3	16QAM	1	14	22.14	22.01	21.76
3	16QAM	8	0	20.71	20.80	20.54
3	16QAM	8	4	20.87	20.98	20.55
3	16QAM	8	7	20.79	20.85	20.59
3	16QAM	15	0	20.73	20.75	20.30
3	64QAM	1	0	21.68	21.56	21.77
3	64QAM	1	8	21.56	21.80	21.31
3	64QAM	1	14	21.58	21.76	21.44
3	64QAM	8	0	20.68	20.78	20.44
3	64QAM	8	4	20.90	20.74	20.37
3	64QAM	8	7	20.85	20.77	20.41
3	64QAM	15	0	20.74	20.84	20.31

LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.60	22.67	22.18
1.4	QPSK	1	3	22.73	22.74	22.30
1.4	QPSK	1	5	22.62	22.56	22.24
1.4	QPSK	3	0	22.63	22.69	22.22
1.4	QPSK	3	1	22.69	22.74	22.38
1.4	QPSK	3	3	22.70	22.72	22.29
1.4	QPSK	6	0	21.73	21.72	21.37



1.4	16QAM	1	0	22.03	21.67	21.50
1.4	16QAM	1	3	22.24	21.90	21.45
1.4	16QAM	1	5	22.05	21.73	21.45
1.4	16QAM	3	0	21.58	21.56	21.36
1.4	16QAM	3	1	21.61	21.88	21.40
1.4	16QAM	3	3	21.69	21.80	21.34
1.4	16QAM	6	0	20.91	20.86	20.39
1.4	64QAM	1	0	21.54	21.71	21.39
1.4	64QAM	1	3	21.85	21.86	21.47
1.4	64QAM	1	5	21.80	21.79	21.33
1.4	64QAM	3	0	21.46	21.73	21.40
1.4	64QAM	3	1	21.74	21.68	21.35
1.4	64QAM	3	3	21.64	21.81	21.51
1.4	64QAM	6	0	20.72	20.84	20.39

LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	22.74	22.78	22.81
20	QPSK	1	49	22.62	22.87	22.76
20	QPSK	1	99	22.78	22.73	22.78
20	QPSK	50	0	21.77	21.94	21.81
20	QPSK	50	24	21.83	21.80	21.70
20	QPSK	50	50	21.93	21.96	21.93
20	QPSK	100	0	21.88	21.90	21.87
20	16QAM	1	0	21.69	21.79	21.97
20	16QAM	1	49	21.84	21.70	21.98
20	16QAM	1	99	21.82	21.72	21.89
20	16QAM	50	0	20.88	20.98	20.91
20	16QAM	50	24	20.93	20.85	20.96
20	16QAM	50	50	21.01	21.06	20.89
20	16QAM	100	0	20.89	21.01	20.99
20	64QAM	1	0	21.99	22.34	21.56



20	64QAM	1	49	21.93	21.90	21.95
20	64QAM	1	99	21.91	21.96	21.87
20	64QAM	50	0	20.90	20.91	20.96
20	64QAM	50	24	20.95	20.96	20.96
20	64QAM	50	50	20.99	21.06	20.91
20	64QAM	100	0	20.92	20.89	21.01

LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	22.71	22.80	22.80
15	QPSK	1	37	22.81	22.78	22.82
15	QPSK	1	74	22.75	22.82	22.82
15	QPSK	36	0	21.86	21.95	21.97
15	QPSK	36	20	21.94	22.01	21.96
15	QPSK	36	39	21.97	22.00	22.04
15	QPSK	75	0	22.03	21.96	21.98
15	16QAM	1	0	22.19	22.30	22.37
15	16QAM	1	37	22.01	22.12	22.10
15	16QAM	1	74	22.05	22.05	22.27
15	16QAM	36	0	20.89	21.00	21.02
15	16QAM	36	20	20.96	20.99	20.98
15	16QAM	36	39	21.02	21.00	20.89
15	16QAM	75	0	20.97	21.05	20.97
15	64QAM	1	0	21.89	22.35	21.74
15	64QAM	1	37	21.79	21.94	22.03
15	64QAM	1	74	21.78	21.90	21.96
15	64QAM	36	0	20.88	20.96	20.95
15	64QAM	36	20	20.99	20.98	21.05
15	64QAM	36	39	21.03	20.94	20.96
15	64QAM	75	0	20.88	20.98	20.93



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	22.70	22.57	22.60
10	QPSK	1	25	22.73	22.63	22.65
10	QPSK	1	49	22.66	22.63	22.65
10	QPSK	25	0	21.78	21.78	21.77
10	QPSK	25	12	21.74	21.86	21.91
10	QPSK	25	25	21.67	21.85	21.85
10	QPSK	50	0	21.76	21.88	21.87
10	16QAM	1	0	21.81	21.99	21.84
10	16QAM	1	25	21.80	21.82	21.87
10	16QAM	1	49	22.27	22.17	22.08
10	16QAM	25	0	20.76	20.83	20.91
10	16QAM	25	12	20.77	20.94	20.87
10	16QAM	25	25	20.82	20.85	20.77
10	16QAM	50	0	20.85	20.94	20.79
10	64QAM	1	0	21.89	21.85	21.83
10	64QAM	1	25	21.58	21.83	21.66
10	64QAM	1	49	21.69	21.93	21.74
10	64QAM	25	0	20.80	20.78	20.82
10	64QAM	25	12	20.82	20.93	20.86
10	64QAM	25	25	20.75	20.65	20.64
10	64QAM	50	0	20.85	20.91	20.83

LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	22.53	22.58	22.71
5	QPSK	1	12	22.62	22.70	22.78



5	QPSK	1	24	22.71	22.77	22.81
5	QPSK	12	0	21.74	21.82	21.74
5	QPSK	12	7	21.81	21.96	21.88
5	QPSK	12	13	21.83	21.99	21.84
5	QPSK	25	0	21.84	21.85	21.80
5	16QAM	1	0	21.82	21.80	21.86
5	16QAM	1	12	21.87	22.09	21.99
5	16QAM	1	24	21.93	22.12	21.94
5	16QAM	12	0	20.79	20.73	20.86
5	16QAM	12	7	20.88	21.00	20.96
5	16QAM	12	13	20.98	21.04	20.87
5	16QAM	25	0	20.85	20.90	20.91
5	64QAM	1	0	21.81	21.86	21.82
5	64QAM	1	12	21.86	21.98	21.86
5	64QAM	1	24	21.90	22.00	21.96
5	64QAM	12	0	20.86	20.83	20.88
5	64QAM	12	7	20.95	21.00	20.79
5	64QAM	12	13	20.90	20.99	20.85
5	64QAM	25	0	20.85	20.84	20.89

LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	22.47	22.48	22.35
10	QPSK	1	25	22.25	22.46	22.31
10	QPSK	1	49	22.25	22.44	22.63
10	QPSK	25	0	21.50	21.60	21.51
10	QPSK	25	12	21.59	21.54	21.60
10	QPSK	25	25	21.52	21.58	21.51
10	QPSK	50	0	21.53	21.55	21.46
10	16QAM	1	0	21.90	21.45	21.51
10	16QAM	1	25	22.05	21.60	21.92
10	16QAM	1	49	21.74	21.79	21.68
10	16QAM	25	0	20.52	20.54	20.48



10	16QAM	25	12	20.56	20.60	20.49
10	16QAM	25	25	20.61	20.62	20.56
10	16QAM	50	0	20.51	20.59	20.64
10	64QAM	1	0	21.44	21.56	21.90
10	64QAM	1	25	21.88	21.94	21.53
10	64QAM	1	49	21.90	21.58	21.51
10	64QAM	25	0	20.52	20.46	20.43
10	64QAM	25	12	20.57	20.60	20.52
10	64QAM	25	25	20.62	20.59	20.59
10	64QAM	50	0	20.54	20.47	20.58

LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	22.22	22.38	22.33
5	QPSK	1	12	22.38	22.54	22.38
5	QPSK	1	24	22.34	22.53	22.39
5	QPSK	12	0	21.45	21.52	21.51
5	QPSK	12	7	21.56	21.58	21.55
5	QPSK	12	13	21.51	21.54	21.51
5	QPSK	25	0	21.47	21.59	21.55
5	16QAM	1	0	21.48	21.50	21.52
5	16QAM	1	12	21.65	21.60	21.61
5	16QAM	1	24	21.61	21.59	21.55
5	16QAM	12	0	20.46	20.43	20.46
5	16QAM	12	7	20.60	20.65	20.49
5	16QAM	12	13	20.55	20.52	20.57
5	16QAM	25	0	20.56	20.52	20.54
5	64QAM	1	0	21.42	21.43	21.48
5	64QAM	1	12	21.87	21.57	21.50
5	64QAM	1	24	21.85	21.54	21.59
5	64QAM	12	0	20.50	20.52	20.47
5	64QAM	12	7	20.60	20.48	20.54
5	64QAM	12	13	20.47	20.57	20.62



5	64QAM	25	0	20.62	20.58	20.55
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LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	22.30	22.39	22.24
3	QPSK	1	8	22.48	22.47	22.57
3	QPSK	1	14	22.42	22.53	22.48
3	QPSK	8	0	21.53	21.51	21.51
3	QPSK	8	4	21.56	21.59	21.60
3	QPSK	8	7	21.51	21.59	21.53
3	QPSK	15	0	21.50	21.58	21.44
3	16QAM	1	0	21.51	21.87	21.46
3	16QAM	1	8	21.71	21.69	21.64
3	16QAM	1	14	21.54	21.59	22.06
3	16QAM	8	0	20.62	20.51	20.54
3	16QAM	8	4	20.67	20.64	20.75
3	16QAM	8	7	20.51	20.54	20.60
3	16QAM	15	0	20.49	20.42	20.41
3	64QAM	1	0	21.43	21.77	21.76
3	64QAM	1	8	22.00	22.00	21.91
3	64QAM	1	14	21.84	21.50	21.94
3	64QAM	8	0	20.43	20.51	20.42
3	64QAM	8	4	20.52	20.56	20.55
3	64QAM	8	7	20.51	20.43	20.58
3	64QAM	15	0	20.50	20.52	20.44

LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.



Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	22.33	22.37	22.30
1.4	QPSK	1	3	22.44	22.43	22.45
1.4	QPSK	1	5	22.33	22.38	22.34
1.4	QPSK	3	0	22.28	22.41	22.39
1.4	QPSK	3	1	22.49	22.49	22.50
1.4	QPSK	3	3	22.44	22.46	22.42
1.4	QPSK	6	0	21.50	21.47	21.45
1.4	16QAM	1	0	21.54	21.48	21.17
1.4	16QAM	1	3	21.35	21.78	21.89
1.4	16QAM	1	5	21.47	21.48	21.47
1.4	16QAM	3	0	21.31	21.34	21.35
1.4	16QAM	3	1	21.47	21.55	21.39
1.4	16QAM	3	3	21.30	21.44	21.44
1.4	16QAM	6	0	20.46	20.47	20.49
1.4	64QAM	1	0	21.27	21.42	21.26
1.4	64QAM	1	3	21.39	21.90	21.37
1.4	64QAM	1	5	21.55	21.58	21.54
1.4	64QAM	3	0	21.45	21.46	21.29
1.4	64QAM	3	1	21.43	21.67	21.52
1.4	64QAM	3	3	21.45	21.29	21.45
1.4	64QAM	6	0	20.52	20.53	20.40

LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	22.23	22.31	22.17
10	QPSK	1	25	22.43	22.29	22.42
10	QPSK	1	49	22.26	22.19	22.35
10	QPSK	25	0	21.26	21.21	21.22
10	QPSK	25	12	21.46	21.40	21.38
10	QPSK	25	25	21.24	21.18	21.19
10	QPSK	50	0	21.22	21.17	21.30



10	16QAM	1	0	21.88	21.60	21.59
10	16QAM	1	25	21.51	21.57	21.49
10	16QAM	1	49	21.40	21.15	21.21
10	16QAM	25	0	20.20	20.18	20.18
10	16QAM	25	12	20.34	20.40	20.44
10	16QAM	25	25	20.19	20.22	20.31
10	16QAM	50	0	20.11	20.12	20.20
10	64QAM	1	0	21.81	21.47	21.50
10	64QAM	1	25	21.55	21.53	21.22
10	64QAM	1	49	21.49	21.49	21.50
10	64QAM	25	0	20.13	20.13	20.21
10	64QAM	25	12	20.46	20.37	20.45
10	64QAM	25	25	20.18	20.03	20.07
10	64QAM	50	0	20.13	20.25	20.19

LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23790	23155
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	21.93	22.10	22.12
5	QPSK	1	12	22.37	22.41	22.41
5	QPSK	1	24	22.25	22.19	22.21
5	QPSK	12	0	21.36	21.33	21.37
5	QPSK	12	7	21.47	21.51	21.52
5	QPSK	12	13	21.44	21.46	21.43
5	QPSK	25	0	21.45	21.34	21.38
5	16QAM	1	0	21.36	21.03	21.49
5	16QAM	1	12	21.94	21.33	21.75
5	16QAM	1	24	21.74	21.07	21.56
5	16QAM	12	0	20.32	20.37	20.35
5	16QAM	12	7	20.47	20.37	20.49
5	16QAM	12	13	20.43	20.42	20.42
5	16QAM	25	0	20.44	20.38	20.42
5	64QAM	1	0	21.03	21.20	21.28
5	64QAM	1	12	21.82	21.47	21.44



REPORT No.: SZ19070119W08

5	64QAM	1	24	21.69	21.22	21.29
5	64QAM	12	0	20.21	20.36	20.37
5	64QAM	12	7	20.46	20.39	20.53
5	64QAM	12	13	20.44	20.46	20.24
5	64QAM	25	0	20.40	20.44	20.45



Effective Radiated Power and Effective Isotropic Radiated Power:

Top Antenna

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	16.33	0.043	16.35	0.043	16.36	0.043
20	QPSK	1	49	16.28	0.042	16.31	0.043	16.42	0.044
20	QPSK	1	99	16.39	0.044	16.55	0.045	16.59	0.046
20	QPSK	50	0	15.5	0.035	15.52	0.036	15.52	0.036
20	QPSK	50	24	15.51	0.036	15.56	0.036	15.56	0.036
20	QPSK	50	50	15.56	0.036	15.67	0.037	15.68	0.037
20	QPSK	100	0	15.49	0.035	15.58	0.036	15.54	0.036
20	16QAM	1	0	15.55	0.036	15.55	0.036	15.57	0.036
20	16QAM	1	49	15.9	0.039	15.69	0.037	15.65	0.037
20	16QAM	1	99	15.64	0.037	15.8	0.038	15.89	0.039
20	16QAM	50	0	15.57	0.036	15.54	0.036	15.52	0.036
20	16QAM	50	24	15.53	0.036	15.58	0.036	15.59	0.036
20	16QAM	50	50	15.61	0.036	15.58	0.036	15.65	0.037
20	16QAM	100	0	15.64	0.037	15.65	0.037	15.52	0.036
20	64QAM	1	0	15.51	0.036	15.7	0.037	15.44	0.035
20	64QAM	1	49	15.46	0.035	15.64	0.037	15.55	0.036
20	64QAM	1	99	15.9	0.039	15.74	0.037	15.74	0.037
20	64QAM	50	0	14.59	0.029	14.51	0.028	14.56	0.029
20	64QAM	50	24	14.62	0.029	14.56	0.029	14.61	0.029
20	64QAM	50	50	14.61	0.029	14.62	0.029	14.56	0.029
20	64QAM	100	0	14.61	0.029	14.58	0.029	14.59	0.029

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	



Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	16.36	0.043	16.39	0.044	16.3	0.043
15	QPSK	1	37	16.15	0.041	16.51	0.045	16.39	0.044
15	QPSK	1	74	16.52	0.045	16.44	0.044	16.52	0.045
15	QPSK	36	0	15.48	0.035	15.57	0.036	15.56	0.036
15	QPSK	36	20	15.47	0.035	15.66	0.037	15.63	0.037
15	QPSK	36	39	15.59	0.036	15.60	0.036	15.57	0.036
15	QPSK	75	0	15.51	0.036	15.57	0.036	15.53	0.036
15	16QAM	1	0	15.60	0.036	15.68	0.037	15.62	0.036
15	16QAM	1	37	15.73	0.037	15.76	0.038	15.62	0.036
15	16QAM	1	74	15.68	0.037	15.8	0.038	15.8	0.038
15	16QAM	36	0	15.47	0.035	15.52	0.036	15.55	0.036
15	16QAM	36	20	15.56	0.036	15.49	0.035	15.62	0.036
15	16QAM	36	39	15.61	0.036	15.7	0.037	15.67	0.037
15	16QAM	75	0	15.48	0.035	15.5	0.035	15.59	0.036
15	64QAM	1	0	15.68	0.037	15.44	0.035	15.50	0.035
15	64QAM	1	37	15.67	0.037	15.48	0.035	15.90	0.039
15	64QAM	1	74	15.56	0.036	15.6	0.036	15.75	0.038
15	64QAM	36	0	14.41	0.028	14.58	0.029	14.46	0.028
15	64QAM	36	20	14.61	0.029	14.63	0.029	14.53	0.028
15	64QAM	36	39	14.49	0.028	14.54	0.028	14.63	0.029
15	64QAM	75	0	14.48	0.028	14.55	0.029	14.54	0.028

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	16.21	0.042	16.20	0.042	16.30	0.043
10	QPSK	1	25	16.32	0.043	16.42	0.044	16.30	0.043
10	QPSK	1	49	16.21	0.042	16.29	0.043	16.21	0.042
10	QPSK	25	0	15.47	0.035	15.48	0.035	15.44	0.035
10	QPSK	25	12	15.43	0.035	15.55	0.036	15.48	0.035
10	QPSK	25	25	15.34	0.034	15.47	0.035	15.43	0.035



10	QPSK	50	0	15.40	0.035	15.49	0.035	15.47	0.035
10	16QAM	1	0	15.88	0.039	15.81	0.038	15.80	0.038
10	16QAM	1	25	15.57	0.036	15.53	0.036	15.60	0.036
10	16QAM	1	49	15.52	0.036	15.60	0.036	15.81	0.038
10	16QAM	25	0	14.36	0.027	14.40	0.028	14.46	0.028
10	16QAM	25	12	14.54	0.028	14.50	0.028	14.49	0.028
10	16QAM	25	25	14.49	0.028	14.45	0.028	14.44	0.028
10	16QAM	50	0	14.45	0.028	14.38	0.027	14.42	0.028
10	64QAM	1	0	15.46	0.035	15.51	0.036	15.51	0.036
10	64QAM	1	25	15.49	0.035	15.54	0.036	15.58	0.036
10	64QAM	1	49	15.16	0.033	15.29	0.034	15.26	0.034
10	64QAM	25	0	14.46	0.028	14.50	0.028	14.51	0.028
10	64QAM	25	12	14.49	0.028	14.47	0.028	14.48	0.028
10	64QAM	25	25	14.42	0.028	14.20	0.026	14.42	0.028
10	64QAM	50	0	14.43	0.028	14.43	0.028	14.40	0.028

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	16.35	0.043	16.40	0.044	16.34	0.043
5	QPSK	1	12	16.34	0.043	16.45	0.044	16.32	0.043
5	QPSK	1	24	16.30	0.043	16.46	0.044	16.39	0.044
5	QPSK	12	0	15.46	0.035	15.37	0.034	15.44	0.035
5	QPSK	12	7	15.47	0.035	15.52	0.036	15.44	0.035
5	QPSK	12	13	15.46	0.035	15.45	0.035	15.48	0.035
5	QPSK	25	0	15.45	0.035	15.43	0.035	15.45	0.035
5	16QAM	1	0	15.58	0.036	15.48	0.035	15.86	0.039
5	16QAM	1	12	15.56	0.036	15.49	0.035	15.86	0.039
5	16QAM	1	24	15.59	0.036	15.46	0.035	15.85	0.038
5	16QAM	12	0	14.44	0.028	14.32	0.027	14.42	0.028
5	16QAM	12	7	14.51	0.028	14.53	0.028	14.47	0.028
5	16QAM	12	13	14.54	0.028	14.43	0.028	14.38	0.027
5	16QAM	25	0	14.46	0.028	14.44	0.028	14.42	0.028
5	64QAM	1	0	15.85	0.038	15.40	0.035	15.45	0.035



5	64QAM	1	12	15.84	0.038	15.50	0.035	15.61	0.036
5	64QAM	1	24	15.85	0.038	15.49	0.035	15.51	0.036
5	64QAM	12	0	14.50	0.028	14.43	0.028	14.42	0.028
5	64QAM	12	7	14.56	0.029	14.40	0.028	14.40	0.028
5	64QAM	12	13	14.53	0.028	14.49	0.028	14.47	0.028
5	64QAM	25	0	14.60	0.029	14.40	0.028	14.47	0.028

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	16.40	0.044	16.18	0.041	16.30	0.043
3	QPSK	1	8	16.33	0.043	16.54	0.045	16.37	0.043
3	QPSK	1	14	16.52	0.045	16.39	0.044	16.39	0.044
3	QPSK	8	0	15.46	0.035	15.41	0.035	15.43	0.035
3	QPSK	8	4	15.52	0.036	15.46	0.035	15.47	0.035
3	QPSK	8	7	15.52	0.036	15.46	0.035	15.42	0.035
3	QPSK	15	0	15.44	0.035	15.52	0.036	15.45	0.035
3	16QAM	1	0	15.60	0.036	15.51	0.036	15.45	0.035
3	16QAM	1	8	15.64	0.037	15.58	0.036	15.54	0.036
3	16QAM	1	14	15.57	0.036	15.54	0.036	15.89	0.039
3	16QAM	8	0	14.50	0.028	14.63	0.029	14.55	0.029
3	16QAM	8	4	14.57	0.029	14.54	0.028	14.60	0.029
3	16QAM	8	7	14.47	0.028	14.52	0.028	14.55	0.029
3	16QAM	15	0	14.50	0.028	14.54	0.028	14.49	0.028
3	64QAM	1	0	15.53	0.036	15.46	0.035	15.49	0.035
3	64QAM	1	8	15.95	0.039	15.94	0.039	15.54	0.036
3	64QAM	1	14	15.56	0.036	15.92	0.039	15.56	0.036
3	64QAM	8	0	14.48	0.028	14.50	0.028	14.34	0.027
3	64QAM	8	4	14.58	0.029	14.48	0.028	14.48	0.028
3	64QAM	8	7	14.68	0.029	14.57	0.029	14.43	0.028
3	64QAM	15	0	14.53	0.028	14.53	0.028	14.51	0.028

LTE Band2	Measured EIRP
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BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	16.27	0.042	16.29	0.043	16.25	0.042
1.4	QPSK	1	3	16.37	0.043	16.35	0.043	16.34	0.043
1.4	QPSK	1	5	16.34	0.043	16.32	0.043	16.30	0.043
1.4	QPSK	3	0	16.33	0.043	16.33	0.043	16.29	0.043
1.4	QPSK	3	1	16.37	0.043	16.34	0.043	16.32	0.043
1.4	QPSK	3	3	16.39	0.044	16.43	0.044	16.32	0.043
1.4	QPSK	6	0	15.42	0.035	15.40	0.035	15.39	0.035
1.4	16QAM	1	0	15.45	0.035	15.45	0.035	15.39	0.035
1.4	16QAM	1	3	15.41	0.035	15.61	0.036	15.59	0.036
1.4	16QAM	1	5	15.29	0.034	15.49	0.035	15.17	0.033
1.4	16QAM	3	0	15.31	0.034	15.36	0.034	15.33	0.034
1.4	16QAM	3	1	15.49	0.035	15.31	0.034	15.36	0.034
1.4	16QAM	3	3	15.51	0.036	15.48	0.035	15.22	0.033
1.4	16QAM	6	0	14.56	0.029	14.45	0.028	14.37	0.027
1.4	64QAM	1	0	15.40	0.035	15.32	0.034	15.35	0.034
1.4	64QAM	1	3	15.42	0.035	15.63	0.037	15.51	0.036
1.4	64QAM	1	5	15.40	0.035	15.75	0.038	15.34	0.034
1.4	64QAM	3	0	15.43	0.035	15.49	0.035	15.50	0.035
1.4	64QAM	3	1	15.52	0.036	15.49	0.035	15.23	0.033
1.4	64QAM	3	3	15.44	0.035	15.58	0.036	15.35	0.034
1.4	64QAM	6	0	14.44	0.028	14.45	0.028	14.34	0.027

LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	17.42	0.055	17.40	0.055	17.54	0.057
20	QPSK	1	49	17.28	0.053	17.36	0.054	17.49	0.056



20	QPSK	1	99	17.20	0.052	17.33	0.054	17.44	0.055
20	QPSK	50	0	16.49	0.045	16.60	0.046	16.59	0.046
20	QPSK	50	24	16.49	0.045	16.57	0.045	16.57	0.045
20	QPSK	50	50	16.38	0.043	16.49	0.045	16.62	0.046
20	QPSK	100	0	16.48	0.044	16.52	0.045	16.59	0.046
20	16QAM	1	0	16.67	0.046	16.75	0.047	16.64	0.046
20	16QAM	1	49	16.82	0.048	16.59	0.046	16.73	0.047
20	16QAM	1	99	16.61	0.046	16.83	0.048	16.59	0.046
20	16QAM	50	0	15.54	0.036	15.59	0.036	15.69	0.037
20	16QAM	50	24	15.50	0.035	15.61	0.036	15.50	0.035
20	16QAM	50	50	15.46	0.035	15.47	0.035	15.47	0.035
20	16QAM	100	0	15.48	0.035	15.56	0.036	15.57	0.036
20	64QAM	1	0	16.46	0.044	16.57	0.045	16.79	0.048
20	64QAM	1	49	16.50	0.045	16.43	0.044	16.31	0.043
20	64QAM	1	99	16.77	0.048	16.34	0.043	16.81	0.048
20	64QAM	50	0	15.47	0.035	15.56	0.036	15.51	0.036
20	64QAM	50	24	15.49	0.035	15.60	0.036	15.54	0.036
20	64QAM	50	50	15.53	0.036	15.48	0.035	15.50	0.035
20	64QAM	100	0	15.56	0.036	15.54	0.036	15.63	0.037

LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	17.29	0.054	17.33	0.054	17.43	0.055
15	QPSK	1	37	17.33	0.054	17.42	0.055	17.34	0.054
15	QPSK	1	74	17.20	0.052	17.42	0.055	17.45	0.056
15	QPSK	36	0	16.43	0.044	16.50	0.045	16.53	0.045
15	QPSK	36	20	16.47	0.044	16.60	0.046	16.56	0.045
15	QPSK	36	39	16.52	0.045	16.51	0.045	16.60	0.046
15	QPSK	75	0	16.47	0.044	16.49	0.045	16.50	0.045
15	16QAM	1	0	16.55	0.045	16.77	0.048	16.49	0.045
15	16QAM	1	37	16.63	0.046	16.63	0.046	16.47	0.044
15	16QAM	1	74	16.49	0.045	16.79	0.048	16.75	0.047



15	16QAM	36	0	15.50	0.035	15.52	0.036	15.58	0.036
15	16QAM	36	20	15.45	0.035	15.52	0.036	15.58	0.036
15	16QAM	36	39	15.41	0.035	15.50	0.035	15.56	0.036
15	16QAM	75	0	15.52	0.036	15.53	0.036	15.62	0.036
15	64QAM	1	0	16.33	0.043	16.64	0.046	16.69	0.047
15	64QAM	1	37	16.75	0.047	16.51	0.045	16.57	0.045
15	64QAM	1	74	16.79	0.048	16.50	0.045	16.54	0.045
15	64QAM	36	0	15.44	0.035	15.51	0.036	15.55	0.036
15	64QAM	36	20	15.50	0.035	15.52	0.036	15.54	0.036
15	64QAM	36	39	15.53	0.036	15.49	0.035	15.51	0.036
15	64QAM	75	0	15.46	0.035	15.57	0.036	15.50	0.035

LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	17.21	0.053	17.40	0.055	17.23	0.053
10	QPSK	1	25	17.19	0.052	17.32	0.054	17.33	0.054
10	QPSK	1	49	17.27	0.053	17.10	0.051	17.33	0.054
10	QPSK	25	0	16.26	0.042	16.48	0.044	16.50	0.045
10	QPSK	25	12	16.38	0.043	16.44	0.044	16.48	0.044
10	QPSK	25	25	16.27	0.042	16.38	0.043	16.45	0.044
10	QPSK	50	0	16.33	0.043	16.43	0.044	16.35	0.043
10	16QAM	1	0	16.46	0.044	16.61	0.046	16.37	0.043
10	16QAM	1	25	16.73	0.047	16.47	0.044	16.79	0.048
10	16QAM	1	49	16.80	0.048	16.70	0.047	16.69	0.047
10	16QAM	25	0	15.46	0.035	15.45	0.035	15.44	0.035
10	16QAM	25	12	15.38	0.035	15.48	0.035	15.45	0.035
10	16QAM	25	25	15.34	0.034	15.25	0.033	15.34	0.034
10	16QAM	50	0	15.28	0.034	15.32	0.034	15.44	0.035
10	64QAM	1	0	16.38	0.043	16.46	0.044	16.36	0.043
10	64QAM	1	25	16.45	0.044	16.74	0.047	16.83	0.048
10	64QAM	1	49	16.43	0.044	16.47	0.044	16.42	0.044
10	64QAM	25	0	15.27	0.034	15.41	0.035	15.40	0.035



10	64QAM	25	12	15.36	0.034	15.47	0.035	15.51	0.036
10	64QAM	25	25	15.24	0.033	15.36	0.034	15.38	0.035
10	64QAM	50	0	15.30	0.034	15.37	0.034	15.36	0.034

LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	17.11	0.051	17.33	0.054	17.38	0.055
5	QPSK	1	12	17.17	0.052	17.32	0.054	17.29	0.054
5	QPSK	1	24	17.12	0.052	17.24	0.053	17.23	0.053
5	QPSK	12	0	16.34	0.043	16.34	0.043	16.38	0.043
5	QPSK	12	7	16.34	0.043	16.45	0.044	16.42	0.044
5	QPSK	12	13	16.29	0.043	16.46	0.044	16.38	0.043
5	QPSK	25	0	16.32	0.043	16.36	0.043	16.42	0.044
5	16QAM	1	0	16.36	0.043	16.77	0.048	16.45	0.044
5	16QAM	1	12	16.47	0.044	16.82	0.048	16.41	0.044
5	16QAM	1	24	16.41	0.044	16.76	0.047	16.36	0.043
5	16QAM	12	0	15.40	0.035	15.34	0.034	15.37	0.034
5	16QAM	12	7	15.43	0.035	15.47	0.035	15.45	0.035
5	16QAM	12	13	15.32	0.034	15.39	0.035	15.43	0.035
5	16QAM	25	0	15.33	0.034	15.44	0.035	15.37	0.034
5	64QAM	1	0	16.34	0.043	16.78	0.048	16.76	0.047
5	64QAM	1	12	16.72	0.047	16.48	0.044	16.75	0.047
5	64QAM	1	24	16.68	0.047	16.38	0.043	16.45	0.044
5	64QAM	12	0	15.35	0.034	15.42	0.035	15.44	0.035
5	64QAM	12	7	15.34	0.034	15.43	0.035	15.49	0.035
5	64QAM	12	13	15.35	0.034	15.41	0.035	15.40	0.035
5	64QAM	25	0	15.30	0.034	15.44	0.035	15.35	0.034

LTE Band4	Measured EIRP
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BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	17.23	0.053	17.24	0.053	17.36	0.054
3	QPSK	1	8	17.32	0.054	17.46	0.056	17.40	0.055
3	QPSK	1	14	17.12	0.052	17.31	0.054	17.31	0.054
3	QPSK	8	0	16.32	0.043	16.38	0.043	16.39	0.044
3	QPSK	8	4	16.38	0.043	16.46	0.044	16.48	0.044
3	QPSK	8	7	16.34	0.043	16.44	0.044	16.44	0.044
3	QPSK	15	0	16.34	0.043	16.40	0.044	16.34	0.043
3	16QAM	1	0	16.56	0.045	16.65	0.046	16.69	0.047
3	16QAM	1	8	16.78	0.048	16.78	0.048	16.52	0.045
3	16QAM	1	14	16.69	0.047	16.47	0.044	16.55	0.045
3	16QAM	8	0	15.36	0.034	15.49	0.035	15.36	0.034
3	16QAM	8	4	15.48	0.035	15.58	0.036	15.55	0.036
3	16QAM	8	7	15.42	0.035	15.50	0.035	15.54	0.036
3	16QAM	15	0	15.42	0.035	15.40	0.035	15.47	0.035
3	64QAM	1	0	16.33	0.043	16.42	0.044	16.40	0.044
3	64QAM	1	8	16.52	0.045	16.40	0.044	16.56	0.045
3	64QAM	1	14	16.33	0.043	16.40	0.044	16.23	0.042
3	64QAM	8	0	15.31	0.034	15.35	0.034	15.29	0.034
3	64QAM	8	4	15.43	0.035	15.41	0.035	15.45	0.035
3	64QAM	8	7	15.37	0.034	15.44	0.035	15.56	0.036
3	64QAM	15	0	15.33	0.034	15.41	0.035	15.32	0.034

LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	16.98	0.050	17.19	0.052	17.20	0.052
1.4	QPSK	1	3	17.32	0.054	17.32	0.054	17.36	0.054
1.4	QPSK	1	5	17.18	0.052	17.27	0.053	17.29	0.054



1.4	QPSK	3	0	17.26	0.053	17.23	0.053	17.22	0.053
1.4	QPSK	3	1	17.22	0.053	17.32	0.054	17.37	0.055
1.4	QPSK	3	3	17.21	0.053	17.28	0.053	17.27	0.053
1.4	QPSK	6	0	16.31	0.043	16.40	0.044	16.40	0.044
1.4	16QAM	1	0	16.28	0.042	16.75	0.047	16.41	0.044
1.4	16QAM	1	3	16.41	0.044	16.49	0.045	16.53	0.045
1.4	16QAM	1	5	16.47	0.044	16.63	0.046	16.43	0.044
1.4	16QAM	3	0	16.29	0.043	16.33	0.043	16.24	0.042
1.4	16QAM	3	1	16.30	0.043	16.33	0.043	16.35	0.043
1.4	16QAM	3	3	16.29	0.043	16.41	0.044	16.30	0.043
1.4	16QAM	6	0	15.46	0.035	15.27	0.034	15.40	0.035
1.4	64QAM	1	0	16.22	0.042	16.16	0.041	16.30	0.043
1.4	64QAM	1	3	16.48	0.044	16.46	0.044	16.58	0.045
1.4	64QAM	1	5	16.39	0.044	16.35	0.043	16.19	0.042
1.4	64QAM	3	0	16.30	0.043	16.28	0.042	16.47	0.044
1.4	64QAM	3	1	16.21	0.042	16.36	0.043	16.33	0.043
1.4	64QAM	3	3	16.27	0.042	16.44	0.044	16.32	0.043
1.4	64QAM	6	0	15.26	0.034	15.27	0.034	15.34	0.034

LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	21.43	0.139	21.44	0.139	21.25	0.133
10	QPSK	1	25	21.29	0.135	21.32	0.136	21.12	0.129
10	QPSK	1	49	21.21	0.132	21.33	0.136	21.01	0.126
10	QPSK	25	0	20.52	0.113	20.54	0.113	20.35	0.108
10	QPSK	25	12	20.49	0.112	20.51	0.112	20.26	0.106
10	QPSK	25	25	20.49	0.112	20.40	0.110	20.23	0.105
10	QPSK	50	0	20.42	0.110	20.43	0.110	20.20	0.105
10	16QAM	1	0	20.59	0.115	20.78	0.120	20.49	0.112
10	16QAM	1	25	20.82	0.121	20.85	0.122	20.53	0.113
10	16QAM	1	49	20.44	0.111	20.50	0.112	20.57	0.114
10	16QAM	25	0	19.53	0.090	19.54	0.090	19.36	0.086



10	16QAM	25	12	19.47	0.089	19.55	0.090	19.17	0.083
10	16QAM	25	25	19.50	0.089	19.43	0.088	19.16	0.082
10	16QAM	50	0	19.51	0.089	19.42	0.087	19.32	0.086
10	64QAM	1	0	20.60	0.115	21.05	0.127	20.63	0.116
10	64QAM	1	25	20.61	0.115	20.62	0.115	20.65	0.116
10	64QAM	1	49	20.62	0.115	20.66	0.116	20.70	0.117
10	64QAM	25	0	19.44	0.088	19.55	0.090	19.22	0.084
10	64QAM	25	12	19.43	0.088	19.60	0.091	19.31	0.085
10	64QAM	25	25	19.55	0.090	19.44	0.088	19.14	0.082
10	64QAM	50	0	19.51	0.089	19.47	0.089	19.33	0.086

LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	21.20	0.132	21.25	0.133	21.02	0.126
5	QPSK	1	12	21.28	0.134	21.39	0.138	20.89	0.123
5	QPSK	1	24	21.28	0.134	21.23	0.133	20.95	0.124
5	QPSK	12	0	20.43	0.110	20.48	0.112	20.16	0.104
5	QPSK	12	7	20.50	0.112	20.51	0.112	20.24	0.106
5	QPSK	12	13	20.55	0.114	20.39	0.109	20.12	0.103
5	QPSK	25	0	20.46	0.111	20.42	0.110	20.18	0.104
5	16QAM	1	0	20.75	0.119	20.68	0.117	20.44	0.111
5	16QAM	1	12	20.45	0.111	20.67	0.117	20.43	0.110
5	16QAM	1	24	20.32	0.108	20.67	0.117	20.50	0.112
5	16QAM	12	0	19.41	0.087	19.50	0.089	19.19	0.083
5	16QAM	12	7	19.48	0.089	19.51	0.089	19.19	0.083
5	16QAM	12	13	19.48	0.089	19.39	0.087	19.04	0.080
5	16QAM	25	0	19.49	0.089	19.54	0.090	19.15	0.082
5	64QAM	1	0	20.56	0.114	20.21	0.105	20.55	0.114
5	64QAM	1	12	20.44	0.111	20.38	0.109	20.52	0.113
5	64QAM	1	24	20.58	0.114	20.42	0.110	20.11	0.103
5	64QAM	12	0	19.30	0.085	19.44	0.088	19.04	0.080
5	64QAM	12	7	19.34	0.086	19.50	0.089	19.28	0.085
5	64QAM	12	13	19.52	0.090	19.47	0.089	19.04	0.080



5	64QAM	25	0	19.40	0.087	19.47	0.089	19.08	0.081
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LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	21.07	0.128	21.38	0.137	21.09	0.129
3	QPSK	1	8	21.46	0.140	21.34	0.136	21.14	0.130
3	QPSK	1	14	21.42	0.139	21.32	0.136	21.06	0.128
3	QPSK	8	0	20.36	0.109	20.49	0.112	20.11	0.103
3	QPSK	8	4	20.50	0.112	20.56	0.114	20.11	0.103
3	QPSK	8	7	20.45	0.111	20.47	0.111	20.14	0.103
3	QPSK	15	0	20.43	0.110	20.49	0.112	20.08	0.102
3	16QAM	1	0	20.45	0.111	20.83	0.121	20.63	0.116
3	16QAM	1	8	20.88	0.122	20.64	0.116	20.48	0.112
3	16QAM	1	14	20.82	0.121	20.69	0.117	20.44	0.111
3	16QAM	8	0	19.39	0.087	19.48	0.089	19.22	0.084
3	16QAM	8	4	19.55	0.090	19.66	0.092	19.23	0.084
3	16QAM	8	7	19.47	0.089	19.53	0.090	19.27	0.085
3	16QAM	15	0	19.41	0.087	19.43	0.088	18.98	0.079
3	64QAM	1	0	20.36	0.109	20.24	0.106	20.45	0.111
3	64QAM	1	8	20.24	0.106	20.48	0.112	19.99	0.100
3	64QAM	1	14	20.26	0.106	20.44	0.111	20.12	0.103
3	64QAM	8	0	19.36	0.086	19.46	0.088	19.12	0.082
3	64QAM	8	4	19.58	0.091	19.42	0.087	19.05	0.080
3	64QAM	8	7	19.53	0.090	19.45	0.088	19.09	0.081
3	64QAM	15	0	19.42	0.087	19.52	0.090	18.99	0.079

LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	



				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	21.28	0.134	21.35	0.136	20.86	0.122
1.4	QPSK	1	3	21.41	0.138	21.42	0.139	20.98	0.125
1.4	QPSK	1	5	21.30	0.135	21.24	0.133	20.92	0.124
1.4	QPSK	3	0	21.31	0.135	21.37	0.137	20.90	0.123
1.4	QPSK	3	1	21.37	0.137	21.42	0.139	21.06	0.128
1.4	QPSK	3	3	21.38	0.137	21.40	0.138	20.97	0.125
1.4	QPSK	6	0	20.41	0.110	20.40	0.110	20.05	0.101
1.4	16QAM	1	0	20.71	0.118	20.35	0.108	20.18	0.104
1.4	16QAM	1	3	20.92	0.124	20.58	0.114	20.13	0.103
1.4	16QAM	1	5	20.73	0.118	20.41	0.110	20.13	0.103
1.4	16QAM	3	0	20.26	0.106	20.24	0.106	20.04	0.101
1.4	16QAM	3	1	20.29	0.107	20.56	0.114	20.08	0.102
1.4	16QAM	3	3	20.37	0.109	20.48	0.112	20.02	0.100
1.4	16QAM	6	0	19.59	0.091	19.54	0.090	19.07	0.081
1.4	64QAM	1	0	20.22	0.105	20.39	0.109	20.07	0.102
1.4	64QAM	1	3	20.53	0.113	20.54	0.113	20.15	0.104
1.4	64QAM	1	5	20.48	0.112	20.47	0.111	20.01	0.100
1.4	64QAM	3	0	20.14	0.103	20.41	0.110	20.08	0.102
1.4	64QAM	3	1	20.42	0.110	20.36	0.109	20.03	0.101
1.4	64QAM	3	3	20.32	0.108	20.49	0.112	20.19	0.104
1.4	64QAM	6	0	19.40	0.087	19.52	0.090	19.07	0.081

LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20850		21100		21350	
Frequency (MHz)				2510		2535		2560	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	21.09	0.129	21.13	0.130	21.16	0.131
20	QPSK	1	49	20.94	0.124	21.22	0.132	21.11	0.129
20	QPSK	1	99	21.13	0.130	21.08	0.128	21.13	0.130
20	QPSK	50	0	20.52	0.113	20.53	0.113	20.51	0.112
20	QPSK	50	24	20.38	0.109	20.35	0.108	20.25	0.106
20	QPSK	50	50	20.48	0.112	20.50	0.112	20.48	0.112
20	QPSK	100	0	20.43	0.110	20.45	0.111	20.42	0.110



20	16QAM	1	0	20.04	0.101	20.14	0.103	20.32	0.108
20	16QAM	1	49	20.19	0.104	20.05	0.101	20.33	0.108
20	16QAM	1	99	20.17	0.104	20.07	0.102	20.24	0.106
20	16QAM	50	0	19.23	0.084	19.33	0.086	19.26	0.084
20	16QAM	50	24	19.28	0.085	19.20	0.083	19.31	0.085
20	16QAM	50	50	19.36	0.086	19.41	0.087	19.24	0.084
20	16QAM	100	0	19.24	0.084	19.36	0.086	19.34	0.086
20	64QAM	1	0	20.34	0.108	20.69	0.117	19.91	0.098
20	64QAM	1	49	20.28	0.107	20.25	0.106	20.30	0.107
20	64QAM	1	99	20.26	0.106	20.31	0.107	20.22	0.105
20	64QAM	50	0	19.25	0.084	19.26	0.084	19.31	0.085
20	64QAM	50	24	19.30	0.085	19.31	0.085	19.31	0.085
20	64QAM	50	50	19.34	0.086	19.41	0.087	19.26	0.084
20	64QAM	100	0	19.27	0.085	19.24	0.084	19.36	0.086

LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20825		21100		21375	
Frequency (MHz)				2507.5		2535		2562.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	21.06	0.128	21.15	0.130	21.15	0.130
15	QPSK	1	37	21.16	0.131	21.13	0.130	21.17	0.131
15	QPSK	1	74	21.10	0.129	21.17	0.131	21.17	0.131
15	QPSK	36	0	20.41	0.110	20.50	0.112	20.52	0.113
15	QPSK	36	20	20.49	0.112	20.56	0.114	20.51	0.112
15	QPSK	36	39	20.52	0.113	20.55	0.114	20.59	0.115
15	QPSK	75	0	20.58	0.114	20.51	0.112	20.53	0.113
15	16QAM	1	0	20.54	0.113	20.65	0.116	20.72	0.118
15	16QAM	1	37	20.36	0.109	20.47	0.111	20.45	0.111
15	16QAM	1	74	20.40	0.110	20.40	0.110	20.62	0.115
15	16QAM	36	0	19.24	0.084	19.35	0.086	19.37	0.086
15	16QAM	36	20	19.31	0.085	19.34	0.086	19.33	0.086
15	16QAM	36	39	19.37	0.086	19.35	0.086	19.24	0.084
15	16QAM	75	0	19.32	0.086	19.40	0.087	19.32	0.086
15	64QAM	1	0	20.24	0.106	20.70	0.117	20.09	0.102



15	64QAM	1	37	20.14	0.103	20.29	0.107	20.38	0.109
15	64QAM	1	74	20.13	0.103	20.25	0.106	20.31	0.107
15	64QAM	36	0	19.23	0.084	19.31	0.085	19.30	0.085
15	64QAM	36	20	19.34	0.086	19.33	0.086	19.40	0.087
15	64QAM	36	39	19.38	0.087	19.29	0.085	19.31	0.085
15	64QAM	75	0	19.23	0.084	19.33	0.086	19.28	0.085

LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20800		21100		21400	
Frequency (MHz)				2505		2535		2565	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	21.05	0.127	20.92	0.124	20.95	0.124
10	QPSK	1	25	21.08	0.128	20.98	0.125	21.00	0.126
10	QPSK	1	49	21.01	0.126	20.98	0.125	21.00	0.126
10	QPSK	25	0	20.33	0.108	20.33	0.108	20.32	0.108
10	QPSK	25	12	20.29	0.107	20.41	0.110	20.46	0.111
10	QPSK	25	25	20.22	0.105	20.40	0.110	20.40	0.110
10	QPSK	50	0	20.31	0.107	20.43	0.110	20.42	0.110
10	16QAM	1	0	20.16	0.104	20.34	0.108	20.19	0.104
10	16QAM	1	25	20.15	0.104	20.17	0.104	20.22	0.105
10	16QAM	1	49	20.62	0.115	20.52	0.113	20.43	0.110
10	16QAM	25	0	19.11	0.081	19.18	0.083	19.26	0.084
10	16QAM	25	12	19.12	0.082	19.29	0.085	19.22	0.084
10	16QAM	25	25	19.17	0.083	19.20	0.083	19.12	0.082
10	16QAM	50	0	19.20	0.083	19.29	0.085	19.14	0.082
10	64QAM	1	0	20.24	0.106	20.20	0.105	20.18	0.104
10	64QAM	1	25	19.93	0.098	20.18	0.104	20.01	0.100
10	64QAM	1	49	20.04	0.101	20.28	0.107	20.09	0.102
10	64QAM	25	0	19.15	0.082	19.13	0.082	19.17	0.083
10	64QAM	25	12	19.17	0.083	19.28	0.085	19.21	0.083
10	64QAM	25	25	19.10	0.081	19.00	0.079	18.99	0.079
10	64QAM	50	0	19.20	0.083	19.26	0.084	19.18	0.083



LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20775		21100		21425	
Frequency (MHz)				2502.5		2535		2567.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	20.88	0.122	20.93	0.124	21.06	0.128
5	QPSK	1	12	20.97	0.125	21.05	0.127	21.13	0.130
5	QPSK	1	24	21.06	0.128	21.12	0.129	21.16	0.131
5	QPSK	12	0	20.29	0.107	20.37	0.109	20.29	0.107
5	QPSK	12	7	20.36	0.109	20.51	0.112	20.43	0.110
5	QPSK	12	13	20.38	0.109	20.54	0.113	20.39	0.109
5	QPSK	25	0	20.39	0.109	20.40	0.110	20.35	0.108
5	16QAM	1	0	20.17	0.104	20.15	0.104	20.21	0.105
5	16QAM	1	12	20.22	0.105	20.44	0.111	20.34	0.108
5	16QAM	1	24	20.28	0.107	20.47	0.111	20.29	0.107
5	16QAM	12	0	19.14	0.082	19.08	0.081	19.21	0.083
5	16QAM	12	7	19.23	0.084	19.35	0.086	19.31	0.085
5	16QAM	12	13	19.33	0.086	19.39	0.087	19.22	0.084
5	16QAM	25	0	19.20	0.083	19.25	0.084	19.26	0.084
5	64QAM	1	0	20.16	0.104	20.21	0.105	20.17	0.104
5	64QAM	1	12	20.21	0.105	20.33	0.108	20.21	0.105
5	64QAM	1	24	20.25	0.106	20.35	0.108	20.31	0.107
5	64QAM	12	0	19.21	0.083	19.18	0.083	19.23	0.084
5	64QAM	12	7	19.30	0.085	19.35	0.086	19.14	0.082
5	64QAM	12	13	19.25	0.084	19.34	0.086	19.20	0.083
5	64QAM	25	0	19.20	0.083	19.19	0.083	19.24	0.084

LTE Band 12				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	21.26	0.134	21.27	0.134	21.14	0.130
10	QPSK	1	25	21.04	0.127	21.25	0.133	21.10	0.129



10	QPSK	1	49	21.04	0.127	21.23	0.133	21.42	0.139
10	QPSK	25	0	20.29	0.107	20.39	0.109	20.30	0.107
10	QPSK	25	12	20.38	0.109	20.33	0.108	20.39	0.109
10	QPSK	25	25	20.31	0.107	20.37	0.109	20.30	0.107
10	QPSK	50	0	20.32	0.108	20.34	0.108	20.25	0.106
10	16QAM	1	0	20.69	0.117	20.24	0.106	20.30	0.107
10	16QAM	1	25	20.84	0.121	20.39	0.109	20.71	0.118
10	16QAM	1	49	20.53	0.113	20.58	0.114	20.47	0.111
10	16QAM	25	0	19.31	0.085	19.33	0.086	19.27	0.085
10	16QAM	25	12	19.35	0.086	19.39	0.087	19.28	0.085
10	16QAM	25	25	19.40	0.087	19.41	0.087	19.35	0.086
10	16QAM	50	0	19.30	0.085	19.38	0.087	19.43	0.088
10	64QAM	1	0	20.23	0.105	20.35	0.108	20.69	0.117
10	64QAM	1	25	20.67	0.117	20.73	0.118	20.32	0.108
10	64QAM	1	49	20.69	0.117	20.37	0.109	20.30	0.107
10	64QAM	25	0	19.31	0.085	19.25	0.084	19.22	0.084
10	64QAM	25	12	19.36	0.086	19.39	0.087	19.31	0.085
10	64QAM	25	25	19.41	0.087	19.38	0.087	19.38	0.087
10	64QAM	50	0	19.33	0.086	19.26	0.084	19.37	0.086

LTE Band 12				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23095		23155	
Frequency (MHz)				701.5		707.5		713.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	21.01	0.126	21.17	0.131	21.12	0.129
5	QPSK	1	12	21.17	0.131	21.33	0.136	21.17	0.131
5	QPSK	1	24	21.13	0.130	21.32	0.136	21.18	0.131
5	QPSK	12	0	20.24	0.106	20.31	0.107	20.30	0.107
5	QPSK	12	7	20.35	0.108	20.37	0.109	20.34	0.108
5	QPSK	12	13	20.30	0.107	20.33	0.108	20.30	0.107
5	QPSK	25	0	20.26	0.106	20.38	0.109	20.34	0.108
5	16QAM	1	0	20.27	0.106	20.29	0.107	20.31	0.107
5	16QAM	1	12	20.44	0.111	20.39	0.109	20.40	0.110
5	16QAM	1	24	20.40	0.110	20.38	0.109	20.34	0.108



5	16QAM	12	0	19.25	0.084	19.22	0.084	19.25	0.084
5	16QAM	12	7	19.39	0.087	19.44	0.088	19.28	0.085
5	16QAM	12	13	19.34	0.086	19.31	0.085	19.36	0.086
5	16QAM	25	0	19.35	0.086	19.31	0.085	19.33	0.086
5	64QAM	1	0	20.21	0.105	20.22	0.105	20.27	0.106
5	64QAM	1	12	20.66	0.116	20.36	0.109	20.29	0.107
5	64QAM	1	24	20.64	0.116	20.33	0.108	20.38	0.109
5	64QAM	12	0	19.29	0.085	19.31	0.085	19.26	0.084
5	64QAM	12	7	19.39	0.087	19.27	0.085	19.33	0.086
5	64QAM	12	13	19.26	0.084	19.36	0.086	19.41	0.087
5	64QAM	25	0	19.41	0.087	19.37	0.086	19.34	0.086

LTE Band 12				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23025		23095		23165	
Frequency (MHz)				700.5		707.5		714.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	21.09	0.129	21.18	0.131	21.03	0.127
3	QPSK	1	8	21.27	0.134	21.26	0.134	21.36	0.137
3	QPSK	1	14	21.21	0.132	21.32	0.136	21.27	0.134
3	QPSK	8	0	20.32	0.108	20.30	0.107	20.30	0.107
3	QPSK	8	4	20.35	0.108	20.38	0.109	20.39	0.109
3	QPSK	8	7	20.30	0.107	20.38	0.109	20.32	0.108
3	QPSK	15	0	20.29	0.107	20.37	0.109	20.23	0.105
3	16QAM	1	0	20.30	0.107	20.66	0.116	20.25	0.106
3	16QAM	1	8	20.50	0.112	20.48	0.112	20.43	0.110
3	16QAM	1	14	20.33	0.108	20.38	0.109	20.85	0.122
3	16QAM	8	0	19.41	0.087	19.30	0.085	19.33	0.086
3	16QAM	8	4	19.46	0.088	19.43	0.088	19.54	0.090
3	16QAM	8	7	19.30	0.085	19.33	0.086	19.39	0.087
3	16QAM	15	0	19.28	0.085	19.21	0.083	19.20	0.083
3	64QAM	1	0	20.22	0.105	20.56	0.114	20.55	0.114
3	64QAM	1	8	20.79	0.120	20.79	0.120	20.70	0.117
3	64QAM	1	14	20.63	0.116	20.29	0.107	20.73	0.118
3	64QAM	8	0	19.22	0.084	19.30	0.085	19.21	0.083



3	64QAM	8	4	19.31	0.085	19.35	0.086	19.34	0.086
3	64QAM	8	7	19.30	0.085	19.22	0.084	19.37	0.086
3	64QAM	15	0	19.29	0.085	19.31	0.085	19.23	0.084

LTE Band 12				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	21.12	0.129	21.16	0.131	21.09	0.129
1.4	QPSK	1	3	21.23	0.133	21.22	0.132	21.24	0.133
1.4	QPSK	1	5	21.12	0.129	21.17	0.131	21.13	0.130
1.4	QPSK	3	0	21.07	0.128	21.20	0.132	21.18	0.131
1.4	QPSK	3	1	21.28	0.134	21.28	0.134	21.29	0.135
1.4	QPSK	3	3	21.23	0.133	21.25	0.133	21.21	0.132
1.4	QPSK	6	0	20.29	0.107	20.26	0.106	20.24	0.106
1.4	16QAM	1	0	20.33	0.108	20.27	0.106	19.96	0.099
1.4	16QAM	1	3	20.14	0.103	20.57	0.114	20.68	0.117
1.4	16QAM	1	5	20.26	0.106	20.27	0.106	20.26	0.106
1.4	16QAM	3	0	20.10	0.102	20.13	0.103	20.14	0.103
1.4	16QAM	3	1	20.26	0.106	20.34	0.108	20.18	0.104
1.4	16QAM	3	3	20.09	0.102	20.23	0.105	20.23	0.105
1.4	16QAM	6	0	19.25	0.084	19.26	0.084	19.28	0.085
1.4	64QAM	1	0	20.06	0.101	20.21	0.105	20.05	0.101
1.4	64QAM	1	3	20.18	0.104	20.69	0.117	20.16	0.104
1.4	64QAM	1	5	20.34	0.108	20.37	0.109	20.33	0.108
1.4	64QAM	3	0	20.24	0.106	20.25	0.106	20.08	0.102
1.4	64QAM	3	1	20.22	0.105	20.46	0.111	20.31	0.107
1.4	64QAM	3	3	20.24	0.106	20.08	0.102	20.24	0.106
1.4	64QAM	6	0	19.31	0.085	19.32	0.086	19.19	0.083

LTE Band 17	Measured ERP
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BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	20.98	0.125	21.06	0.128	20.92	0.124
10	QPSK	1	25	21.18	0.131	21.04	0.127	21.17	0.131
10	QPSK	1	49	21.01	0.126	20.94	0.124	21.10	0.129
10	QPSK	25	0	20.01	0.100	19.96	0.099	19.97	0.099
10	QPSK	25	12	20.21	0.105	20.15	0.104	20.13	0.103
10	QPSK	25	25	19.99	0.100	19.93	0.098	19.94	0.099
10	QPSK	50	0	19.97	0.099	19.92	0.098	20.05	0.101
10	16QAM	1	0	20.63	0.116	20.35	0.108	20.34	0.108
10	16QAM	1	25	20.26	0.106	20.32	0.108	20.24	0.106
10	16QAM	1	49	20.15	0.104	19.90	0.098	19.96	0.099
10	16QAM	25	0	18.95	0.079	18.93	0.078	18.93	0.078
10	16QAM	25	12	19.09	0.081	19.15	0.082	19.19	0.083
10	16QAM	25	25	18.94	0.078	18.97	0.079	19.06	0.081
10	16QAM	50	0	18.86	0.077	18.87	0.077	18.95	0.079
10	64QAM	1	0	20.56	0.114	20.22	0.105	20.25	0.106
10	64QAM	1	25	20.30	0.107	20.28	0.107	19.97	0.099
10	64QAM	1	49	20.24	0.106	20.24	0.106	20.25	0.106
10	64QAM	25	0	18.88	0.077	18.88	0.077	18.96	0.079
10	64QAM	25	12	19.21	0.083	19.12	0.082	19.20	0.083
10	64QAM	25	25	18.93	0.078	18.78	0.076	18.82	0.076
10	64QAM	50	0	18.88	0.077	19.00	0.079	18.94	0.078

LTE Band 17				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23790		23155	
Frequency (MHz)				706.5		710		713.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	21.99	0.158	22.04	0.160	21.81	0.152
5	QPSK	1	12	22.07	0.161	22.18	0.165	21.68	0.147



5	QPSK	1	24	22.07	0.161	22.02	0.159	21.74	0.149
5	QPSK	12	0	21.22	0.132	21.27	0.134	20.95	0.124
5	QPSK	12	7	21.29	0.135	21.3	0.135	21.03	0.127
5	QPSK	12	13	21.34	0.136	21.18	0.131	20.91	0.123
5	QPSK	25	0	21.25	0.133	21.21	0.132	20.97	0.125
5	16QAM	1	0	21.54	0.143	21.47	0.140	21.23	0.133
5	16QAM	1	12	21.24	0.133	21.46	0.140	21.22	0.132
5	16QAM	1	24	21.11	0.129	21.46	0.140	21.29	0.135
5	16QAM	12	0	20.2	0.105	20.29	0.107	19.98	0.100
5	16QAM	12	7	20.27	0.106	20.3	0.107	19.98	0.100
5	16QAM	12	13	20.27	0.106	20.18	0.104	19.83	0.096
5	16QAM	25	0	20.28	0.107	20.33	0.108	19.94	0.099
5	64QAM	1	0	21.35	0.136	21	0.126	21.34	0.136
5	64QAM	1	12	21.23	0.133	21.17	0.131	21.31	0.135
5	64QAM	1	24	21.37	0.137	21.21	0.132	20.9	0.123
5	64QAM	12	0	20.09	0.102	20.23	0.105	19.83	0.096
5	64QAM	12	7	20.13	0.103	20.29	0.107	20.07	0.102
5	64QAM	12	13	20.31	0.107	20.26	0.106	19.83	0.096
5	64QAM	25	0	20.19	0.104	20.26	0.106	19.87	0.097



Bottom Antenna

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	20.76	0.119	20.78	0.120	20.79	0.120
20	QPSK	1	49	20.71	0.118	20.74	0.119	20.85	0.122
20	QPSK	1	99	20.82	0.121	20.98	0.125	21.02	0.126
20	QPSK	50	0	19.93	0.098	19.95	0.099	19.95	0.099
20	QPSK	50	24	19.94	0.099	19.99	0.100	19.99	0.100
20	QPSK	50	50	19.99	0.100	20.10	0.102	20.11	0.103
20	QPSK	100	0	19.92	0.098	20.01	0.100	19.97	0.099
20	16QAM	1	0	19.98	0.100	19.98	0.100	20.00	0.100
20	16QAM	1	49	20.33	0.108	20.12	0.103	20.08	0.102
20	16QAM	1	99	20.07	0.102	20.23	0.105	20.32	0.108
20	16QAM	50	0	20.00	0.100	19.97	0.099	19.95	0.099
20	16QAM	50	24	19.96	0.099	20.01	0.100	20.02	0.100
20	16QAM	50	50	20.04	0.101	20.01	0.100	20.08	0.102
20	16QAM	100	0	20.07	0.102	20.08	0.102	19.95	0.099
20	64QAM	1	0	19.94	0.099	20.13	0.103	19.87	0.097
20	64QAM	1	49	19.89	0.097	20.07	0.102	19.98	0.100
20	64QAM	1	99	20.33	0.108	20.17	0.104	20.17	0.104
20	64QAM	50	0	19.02	0.080	18.94	0.078	18.99	0.079
20	64QAM	50	24	19.05	0.080	18.99	0.079	19.04	0.080
20	64QAM	50	50	19.04	0.080	19.05	0.080	18.99	0.079
20	64QAM	100	0	19.04	0.080	19.01	0.080	19.02	0.080

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dbm	W	dbm	W	dbm	W



15	QPSK	1	0	20.79	0.120	20.82	0.121	20.73	0.118
15	QPSK	1	37	20.58	0.114	20.94	0.124	20.82	0.121
15	QPSK	1	74	20.95	0.124	20.87	0.122	20.95	0.124
15	QPSK	36	0	19.91	0.098	20.00	0.100	19.99	0.100
15	QPSK	36	20	19.90	0.098	20.09	0.102	20.06	0.101
15	QPSK	36	39	20.02	0.100	20.03	0.101	20.00	0.100
15	QPSK	75	0	19.94	0.099	20.00	0.100	19.96	0.099
15	16QAM	1	0	20.03	0.101	20.11	0.103	20.05	0.101
15	16QAM	1	37	20.16	0.104	20.19	0.104	20.05	0.101
15	16QAM	1	74	20.11	0.103	20.23	0.105	20.23	0.105
15	16QAM	36	0	19.90	0.098	19.95	0.099	19.98	0.100
15	16QAM	36	20	19.99	0.100	19.92	0.098	20.05	0.101
15	16QAM	36	39	20.04	0.101	20.13	0.103	20.10	0.102
15	16QAM	75	0	19.91	0.098	19.93	0.098	20.02	0.100
15	64QAM	1	0	20.11	0.103	19.87	0.097	19.93	0.098
15	64QAM	1	37	20.10	0.102	19.91	0.098	20.33	0.108
15	64QAM	1	74	19.99	0.100	20.03	0.101	20.18	0.104
15	64QAM	36	0	18.84	0.077	19.01	0.080	18.89	0.077
15	64QAM	36	20	19.04	0.080	19.06	0.081	18.96	0.079
15	64QAM	36	39	18.92	0.078	18.97	0.079	19.06	0.081
15	64QAM	75	0	18.91	0.078	18.98	0.079	18.97	0.079

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	20.64	0.116	20.63	0.116	20.73	0.118
10	QPSK	1	25	20.75	0.119	20.85	0.122	20.73	0.118
10	QPSK	1	49	20.64	0.116	20.72	0.118	20.64	0.116
10	QPSK	25	0	19.90	0.098	19.91	0.098	19.87	0.097
10	QPSK	25	12	19.86	0.097	19.98	0.100	19.91	0.098
10	QPSK	25	25	19.77	0.095	19.90	0.098	19.86	0.097
10	QPSK	50	0	19.83	0.096	19.92	0.098	19.90	0.098
10	16QAM	1	0	20.31	0.107	20.24	0.106	20.23	0.105
10	16QAM	1	25	20.00	0.100	19.96	0.099	20.03	0.101



10	16QAM	1	49	19.95	0.099	20.03	0.101	20.24	0.106
10	16QAM	25	0	18.79	0.076	18.83	0.076	18.89	0.077
10	16QAM	25	12	18.97	0.079	18.93	0.078	18.92	0.078
10	16QAM	25	25	18.92	0.078	18.88	0.077	18.87	0.077
10	16QAM	50	0	18.88	0.077	18.81	0.076	18.85	0.077
10	64QAM	1	0	19.89	0.097	19.94	0.099	19.94	0.099
10	64QAM	1	25	19.92	0.098	19.97	0.099	20.01	0.100
10	64QAM	1	49	19.59	0.091	19.72	0.094	19.69	0.093
10	64QAM	25	0	18.89	0.077	18.93	0.078	18.94	0.078
10	64QAM	25	12	18.92	0.078	18.90	0.078	18.91	0.078
10	64QAM	25	25	18.85	0.077	18.63	0.073	18.85	0.077
10	64QAM	50	0	18.86	0.077	18.86	0.077	18.83	0.076

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	20.78	0.120	20.83	0.121	20.77	0.119
5	QPSK	1	12	20.77	0.119	20.88	0.122	20.75	0.119
5	QPSK	1	24	20.73	0.118	20.89	0.123	20.82	0.121
5	QPSK	12	0	19.89	0.097	19.80	0.095	19.87	0.097
5	QPSK	12	7	19.90	0.098	19.95	0.099	19.87	0.097
5	QPSK	12	13	19.89	0.097	19.88	0.097	19.91	0.098
5	QPSK	25	0	19.88	0.097	19.86	0.097	19.88	0.097
5	16QAM	1	0	20.01	0.100	19.91	0.098	20.29	0.107
5	16QAM	1	12	19.99	0.100	19.92	0.098	20.29	0.107
5	16QAM	1	24	20.02	0.100	19.89	0.097	20.28	0.107
5	16QAM	12	0	18.87	0.077	18.75	0.075	18.85	0.077
5	16QAM	12	7	18.94	0.078	18.96	0.079	18.90	0.078
5	16QAM	12	13	18.97	0.079	18.86	0.077	18.81	0.076
5	16QAM	25	0	18.89	0.077	18.87	0.077	18.85	0.077
5	64QAM	1	0	20.28	0.107	19.83	0.096	19.88	0.097
5	64QAM	1	12	20.27	0.106	19.93	0.098	20.04	0.101
5	64QAM	1	24	20.28	0.107	19.92	0.098	19.94	0.099
5	64QAM	12	0	18.93	0.078	18.86	0.077	18.85	0.077



5	64QAM	12	7	18.99	0.079	18.83	0.076	18.83	0.076
5	64QAM	12	13	18.96	0.079	18.92	0.078	18.90	0.078
5	64QAM	25	0	19.03	0.080	18.83	0.076	18.90	0.078

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	20.83	0.121	20.61	0.115	20.73	0.118
3	QPSK	1	8	20.76	0.119	20.97	0.125	20.80	0.120
3	QPSK	1	14	20.95	0.124	20.82	0.121	20.82	0.121
3	QPSK	8	0	19.89	0.097	19.84	0.096	19.86	0.097
3	QPSK	8	4	19.95	0.099	19.89	0.097	19.90	0.098
3	QPSK	8	7	19.95	0.099	19.89	0.097	19.85	0.097
3	QPSK	15	0	19.87	0.097	19.95	0.099	19.88	0.097
3	16QAM	1	0	20.03	0.101	19.94	0.099	19.88	0.097
3	16QAM	1	8	20.07	0.102	20.01	0.100	19.97	0.099
3	16QAM	1	14	20.00	0.100	19.97	0.099	20.32	0.108
3	16QAM	8	0	18.93	0.078	19.06	0.081	18.98	0.079
3	16QAM	8	4	19.00	0.079	18.97	0.079	19.03	0.080
3	16QAM	8	7	18.90	0.078	18.95	0.079	18.98	0.079
3	16QAM	15	0	18.93	0.078	18.97	0.079	18.92	0.078
3	64QAM	1	0	19.96	0.099	19.89	0.097	19.92	0.098
3	64QAM	1	8	20.38	0.109	20.37	0.109	19.97	0.099
3	64QAM	1	14	19.99	0.100	20.35	0.108	19.99	0.100
3	64QAM	8	0	18.91	0.078	18.93	0.078	18.77	0.075
3	64QAM	8	4	19.01	0.080	18.91	0.078	18.91	0.078
3	64QAM	8	7	19.11	0.081	19.00	0.079	18.86	0.077
3	64QAM	15	0	18.96	0.079	18.96	0.079	18.94	0.078

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	



Frequency (MHz)				1850.7		1880		1909.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	20.70	0.117	20.72	0.118	20.68	0.117
1.4	QPSK	1	3	20.80	0.120	20.78	0.120	20.77	0.119
1.4	QPSK	1	5	20.77	0.119	20.75	0.119	20.73	0.118
1.4	QPSK	3	0	20.76	0.119	20.76	0.119	20.72	0.118
1.4	QPSK	3	1	20.80	0.120	20.77	0.119	20.75	0.119
1.4	QPSK	3	3	20.82	0.121	20.86	0.122	20.75	0.119
1.4	QPSK	6	0	19.85	0.097	19.83	0.096	19.82	0.096
1.4	16QAM	1	0	19.88	0.097	19.88	0.097	19.82	0.096
1.4	16QAM	1	3	19.84	0.096	20.04	0.101	20.02	0.100
1.4	16QAM	1	5	19.72	0.094	19.92	0.098	19.60	0.091
1.4	16QAM	3	0	19.74	0.094	19.79	0.095	19.76	0.095
1.4	16QAM	3	1	19.92	0.098	19.74	0.094	19.79	0.095
1.4	16QAM	3	3	19.94	0.099	19.91	0.098	19.65	0.092
1.4	16QAM	6	0	18.99	0.079	18.88	0.077	18.80	0.076
1.4	64QAM	1	0	19.83	0.096	19.75	0.094	19.78	0.095
1.4	64QAM	1	3	19.85	0.097	20.06	0.101	19.94	0.099
1.4	64QAM	1	5	19.83	0.096	20.18	0.104	19.77	0.095
1.4	64QAM	3	0	19.86	0.097	19.92	0.098	19.93	0.098
1.4	64QAM	3	1	19.95	0.099	19.92	0.098	19.66	0.092
1.4	64QAM	3	3	19.87	0.097	20.01	0.100	19.78	0.095
1.4	64QAM	6	0	18.87	0.077	18.88	0.077	18.77	0.075

LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	20.66	0.116	20.64	0.116	20.78	0.120
20	QPSK	1	49	20.52	0.113	20.6	0.115	20.73	0.118
20	QPSK	1	99	20.44	0.111	20.57	0.114	20.69	0.117
20	QPSK	50	0	19.73	0.094	19.84	0.096	19.83	0.096
20	QPSK	50	24	19.73	0.094	19.81	0.096	19.81	0.096
20	QPSK	50	50	19.62	0.092	19.73	0.094	19.86	0.097



20	QPSK	100	0	19.72	0.094	19.76	0.095	19.83	0.096
20	16QAM	1	0	19.91	0.098	19.99	0.100	19.88	0.097
20	16QAM	1	49	20.06	0.101	19.83	0.096	19.97	0.099
20	16QAM	1	99	19.85	0.097	20.07	0.102	19.83	0.096
20	16QAM	50	0	18.78	0.076	18.83	0.076	18.93	0.078
20	16QAM	50	24	18.74	0.075	18.85	0.077	18.74	0.075
20	16QAM	50	50	18.7	0.074	18.71	0.074	18.71	0.074
20	16QAM	100	0	18.72	0.074	18.8	0.076	18.81	0.076
20	64QAM	1	0	19.7	0.093	19.81	0.096	20.03	0.101
20	64QAM	1	49	19.74	0.094	19.67	0.093	19.55	0.090
20	64QAM	1	99	20.01	0.100	19.58	0.091	20.05	0.101
20	64QAM	50	0	18.71	0.074	18.8	0.076	18.75	0.075
20	64QAM	50	24	18.73	0.075	18.84	0.077	18.78	0.076
20	64QAM	50	50	18.77	0.075	18.72	0.074	18.74	0.075
20	64QAM	100	0	18.8	0.076	18.78	0.076	18.87	0.077

LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	20.53	0.113	20.57	0.114	20.67	0.117
15	QPSK	1	37	20.57	0.114	20.66	0.116	20.58	0.114
15	QPSK	1	74	20.44	0.111	20.66	0.116	20.69	0.117
15	QPSK	36	0	19.67	0.093	19.74	0.094	19.77	0.095
15	QPSK	36	20	19.71	0.094	19.84	0.096	19.8	0.095
15	QPSK	36	39	19.76	0.095	19.75	0.094	19.84	0.096
15	QPSK	75	0	19.71	0.094	19.73	0.094	19.74	0.094
15	16QAM	1	0	19.79	0.095	20.01	0.100	19.73	0.094
15	16QAM	1	37	19.87	0.097	19.87	0.097	19.71	0.094
15	16QAM	1	74	19.73	0.094	20.03	0.101	19.99	0.100
15	16QAM	36	0	18.74	0.075	18.76	0.075	18.82	0.076
15	16QAM	36	20	18.69	0.074	18.76	0.075	18.82	0.076
15	16QAM	36	39	18.65	0.073	18.74	0.075	18.8	0.076
15	16QAM	75	0	18.76	0.075	18.77	0.075	18.86	0.077



15	64QAM	1	0	19.57	0.091	19.88	0.097	19.93	0.098
15	64QAM	1	37	19.99	0.100	19.75	0.094	19.81	0.096
15	64QAM	1	74	20.03	0.101	19.74	0.094	19.78	0.095
15	64QAM	36	0	18.68	0.074	18.75	0.075	18.79	0.076
15	64QAM	36	20	18.74	0.075	18.76	0.075	18.78	0.076
15	64QAM	36	39	18.77	0.075	18.73	0.075	18.75	0.075
15	64QAM	75	0	18.70	0.074	18.81	0.076	18.74	0.075

LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	20.45	0.111	20.64	0.116	20.47	0.111
10	QPSK	1	25	20.43	0.110	20.56	0.114	20.57	0.114
10	QPSK	1	49	20.51	0.112	20.34	0.108	20.57	0.114
10	QPSK	25	0	19.50	0.089	19.72	0.094	19.74	0.094
10	QPSK	25	12	19.62	0.092	19.68	0.093	19.72	0.094
10	QPSK	25	25	19.51	0.089	19.62	0.092	19.69	0.093
10	QPSK	50	0	19.57	0.091	19.67	0.093	19.59	0.091
10	16QAM	1	0	19.7	0.093	19.85	0.097	19.61	0.091
10	16QAM	1	25	19.97	0.099	19.71	0.094	20.03	0.101
10	16QAM	1	49	20.04	0.101	19.94	0.099	19.93	0.098
10	16QAM	25	0	18.70	0.074	18.69	0.074	18.68	0.074
10	16QAM	25	12	18.62	0.073	18.72	0.074	18.69	0.074
10	16QAM	25	25	18.58	0.072	18.49	0.071	18.58	0.072
10	16QAM	50	0	18.52	0.071	18.56	0.072	18.68	0.074
10	64QAM	1	0	19.62	0.092	19.7	0.093	19.60	0.091
10	64QAM	1	25	19.69	0.093	19.98	0.100	20.07	0.102
10	64QAM	1	49	19.67	0.093	19.71	0.094	19.66	0.092
10	64QAM	25	0	18.51	0.071	18.65	0.073	18.64	0.073
10	64QAM	25	12	18.60	0.072	18.71	0.074	18.75	0.075
10	64QAM	25	25	18.48	0.070	18.6	0.072	18.62	0.073
10	64QAM	50	0	18.54	0.071	18.61	0.073	18.60	0.072



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	20.35	0.108	20.57	0.114	20.62	0.115
5	QPSK	1	12	20.41	0.110	20.56	0.114	20.53	0.113
5	QPSK	1	24	20.36	0.109	20.48	0.112	20.47	0.111
5	QPSK	12	0	19.58	0.091	19.58	0.091	19.62	0.092
5	QPSK	12	7	19.58	0.091	19.69	0.093	19.66	0.092
5	QPSK	12	13	19.53	0.090	19.7	0.093	19.62	0.092
5	QPSK	25	0	19.56	0.090	19.6	0.091	19.66	0.092
5	16QAM	1	0	19.6	0.091	20.01	0.100	19.69	0.093
5	16QAM	1	12	19.71	0.094	20.06	0.101	19.65	0.092
5	16QAM	1	24	19.65	0.092	20	0.100	19.6	0.091
5	16QAM	12	0	18.64	0.073	18.58	0.072	18.61	0.073
5	16QAM	12	7	18.67	0.074	18.71	0.074	18.69	0.074
5	16QAM	12	13	18.56	0.072	18.63	0.073	18.67	0.074
5	16QAM	25	0	18.57	0.072	18.68	0.074	18.61	0.073
5	64QAM	1	0	19.58	0.091	20.02	0.100	20	0.100
5	64QAM	1	12	19.96	0.099	19.72	0.094	19.99	0.100
5	64QAM	1	24	19.92	0.098	19.62	0.092	19.69	0.093
5	64QAM	12	0	18.59	0.072	18.66	0.073	18.68	0.074
5	64QAM	12	7	18.58	0.072	18.67	0.074	18.73	0.075
5	64QAM	12	13	18.59	0.072	18.65	0.073	18.64	0.073
5	64QAM	25	0	18.54	0.071	18.68	0.074	18.59	0.072

LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	20.47	0.111	20.48	0.112	20.6	0.115
3	QPSK	1	8	20.56	0.114	20.7	0.117	20.64	0.116



3	QPSK	1	14	20.36	0.109	20.55	0.114	20.55	0.114
3	QPSK	8	0	19.56	0.090	19.62	0.092	19.63	0.092
3	QPSK	8	4	19.62	0.092	19.7	0.093	19.72	0.094
3	QPSK	8	7	19.58	0.091	19.68	0.093	19.68	0.093
3	QPSK	15	0	19.58	0.091	19.64	0.092	19.58	0.091
3	16QAM	1	0	19.8	0.095	19.89	0.097	19.93	0.098
3	16QAM	1	8	20.02	0.100	20.02	0.100	19.76	0.095
3	16QAM	1	14	19.93	0.098	19.71	0.094	19.79	0.095
3	16QAM	8	0	18.6	0.072	18.73	0.075	18.6	0.072
3	16QAM	8	4	18.72	0.074	18.82	0.076	18.79	0.076
3	16QAM	8	7	18.66	0.073	18.74	0.075	18.78	0.076
3	16QAM	15	0	18.66	0.073	18.64	0.073	18.71	0.074
3	64QAM	1	0	19.57	0.091	19.66	0.092	19.64	0.092
3	64QAM	1	8	19.76	0.095	19.64	0.092	19.8	0.095
3	64QAM	1	14	19.57	0.091	19.64	0.092	19.47	0.089
3	64QAM	8	0	18.55	0.072	18.59	0.072	18.53	0.071
3	64QAM	8	4	18.67	0.074	18.65	0.073	18.69	0.074
3	64QAM	8	7	18.61	0.073	18.68	0.074	18.8	0.076
3	64QAM	15	0	18.57	0.072	18.65	0.073	18.56	0.072

LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	20.22	0.105	20.43	0.110	20.44	0.111
1.4	QPSK	1	3	20.56	0.114	20.56	0.114	20.6	0.115
1.4	QPSK	1	5	20.42	0.110	20.51	0.112	20.53	0.113
1.4	QPSK	3	0	20.5	0.112	20.47	0.111	20.46	0.111
1.4	QPSK	3	1	20.46	0.111	20.56	0.114	20.61	0.115
1.4	QPSK	3	3	20.45	0.111	20.52	0.113	20.51	0.112
1.4	QPSK	6	0	19.55	0.090	19.64	0.092	19.64	0.092
1.4	16QAM	1	0	19.52	0.090	19.99	0.100	19.65	0.092
1.4	16QAM	1	3	19.65	0.092	19.73	0.094	19.77	0.095
1.4	16QAM	1	5	19.71	0.094	19.87	0.097	19.67	0.093



1.4	16QAM	3	0	19.53	0.090	19.57	0.091	19.48	0.089
1.4	16QAM	3	1	19.54	0.090	19.57	0.091	19.59	0.091
1.4	16QAM	3	3	19.53	0.090	19.65	0.092	19.54	0.090
1.4	16QAM	6	0	18.7	0.074	18.51	0.071	18.64	0.073
1.4	64QAM	1	0	19.46	0.088	19.4	0.087	19.54	0.090
1.4	64QAM	1	3	19.72	0.094	19.7	0.093	19.82	0.096
1.4	64QAM	1	5	19.63	0.092	19.59	0.091	19.43	0.088
1.4	64QAM	3	0	19.54	0.090	19.52	0.090	19.71	0.094
1.4	64QAM	3	1	19.45	0.088	19.6	0.091	19.57	0.091
1.4	64QAM	3	3	19.51	0.089	19.68	0.093	19.56	0.090
1.4	64QAM	6	0	18.5	0.071	18.51	0.071	18.58	0.072

LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	22.75	0.188	22.76	0.189	22.57	0.181
10	QPSK	1	25	22.61	0.182	22.64	0.184	22.44	0.175
10	QPSK	1	49	22.53	0.179	22.65	0.184	22.33	0.171
10	QPSK	25	0	21.84	0.153	21.86	0.153	21.67	0.147
10	QPSK	25	12	21.81	0.152	21.83	0.152	21.58	0.144
10	QPSK	25	25	21.81	0.152	21.72	0.149	21.55	0.143
10	QPSK	50	0	21.74	0.149	21.75	0.150	21.52	0.142
10	16QAM	1	0	21.91	0.155	22.1	0.162	21.81	0.152
10	16QAM	1	25	22.14	0.164	22.17	0.165	21.85	0.153
10	16QAM	1	49	21.76	0.150	21.82	0.152	21.89	0.155
10	16QAM	25	0	20.85	0.122	20.86	0.122	20.68	0.117
10	16QAM	25	12	20.79	0.120	20.87	0.122	20.49	0.112
10	16QAM	25	25	20.82	0.121	20.75	0.119	20.48	0.112
10	16QAM	50	0	20.83	0.121	20.74	0.119	20.64	0.116
10	64QAM	1	0	21.92	0.156	22.37	0.173	21.95	0.157
10	64QAM	1	25	21.93	0.156	21.94	0.156	21.97	0.157
10	64QAM	1	49	21.94	0.156	21.98	0.158	22.02	0.159
10	64QAM	25	0	20.76	0.119	20.87	0.122	20.54	0.113



10	64QAM	25	12	20.75	0.119	20.92	0.124	20.63	0.116
10	64QAM	25	25	20.87	0.122	20.76	0.119	20.46	0.111
10	64QAM	50	0	20.83	0.121	20.79	0.120	20.65	0.116

LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	21.73	0.149	21.78	0.151	21.55	0.143
5	QPSK	1	12	21.81	0.152	21.92	0.156	21.42	0.139
5	QPSK	1	24	21.81	0.152	21.76	0.150	21.48	0.141
5	QPSK	12	0	20.96	0.125	21.01	0.126	20.69	0.117
5	QPSK	12	7	21.03	0.127	21.04	0.127	20.77	0.119
5	QPSK	12	13	21.08	0.128	20.92	0.124	20.65	0.116
5	QPSK	25	0	20.99	0.126	20.95	0.124	20.71	0.118
5	16QAM	1	0	21.28	0.134	21.21	0.132	20.97	0.125
5	16QAM	1	12	20.98	0.125	21.20	0.132	20.96	0.125
5	16QAM	1	24	20.85	0.122	21.20	0.132	21.03	0.127
5	16QAM	12	0	19.94	0.099	20.03	0.101	19.72	0.094
5	16QAM	12	7	20.01	0.100	20.04	0.101	19.72	0.094
5	16QAM	12	13	20.01	0.100	19.92	0.098	19.57	0.091
5	16QAM	25	0	20.02	0.100	20.07	0.102	19.68	0.093
5	64QAM	1	0	21.09	0.129	20.74	0.119	21.08	0.128
5	64QAM	1	12	20.97	0.125	20.91	0.123	21.05	0.127
5	64QAM	1	24	21.11	0.129	20.95	0.124	20.64	0.116
5	64QAM	12	0	19.83	0.096	19.97	0.099	19.57	0.091
5	64QAM	12	7	19.87	0.097	20.03	0.101	19.81	0.096
5	64QAM	12	13	20.05	0.101	20.00	0.100	19.57	0.091
5	64QAM	25	0	19.93	0.098	20.00	0.100	19.61	0.091

LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	



Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	21.60	0.145	21.91	0.155	21.62	0.145
3	QPSK	1	8	21.99	0.158	21.87	0.154	21.67	0.147
3	QPSK	1	14	21.95	0.157	21.85	0.153	21.59	0.144
3	QPSK	8	0	20.89	0.123	21.02	0.126	20.64	0.116
3	QPSK	8	4	21.03	0.127	21.09	0.129	20.64	0.116
3	QPSK	8	7	20.98	0.125	21.00	0.126	20.67	0.117
3	QPSK	15	0	20.96	0.125	21.02	0.126	20.61	0.115
3	16QAM	1	0	20.98	0.125	21.36	0.137	21.16	0.131
3	16QAM	1	8	21.41	0.138	21.17	0.131	21.01	0.126
3	16QAM	1	14	21.35	0.136	21.22	0.132	20.97	0.125
3	16QAM	8	0	19.92	0.098	20.01	0.100	19.75	0.094
3	16QAM	8	4	20.08	0.102	20.19	0.104	19.76	0.095
3	16QAM	8	7	20.00	0.100	20.06	0.101	19.80	0.095
3	16QAM	15	0	19.94	0.099	19.96	0.099	19.51	0.089
3	64QAM	1	0	20.89	0.123	20.77	0.119	20.98	0.125
3	64QAM	1	8	20.77	0.119	21.01	0.126	20.52	0.113
3	64QAM	1	14	20.79	0.120	20.97	0.125	20.65	0.116
3	64QAM	8	0	19.89	0.097	19.99	0.100	19.65	0.092
3	64QAM	8	4	20.11	0.103	19.95	0.099	19.58	0.091
3	64QAM	8	7	20.06	0.101	19.98	0.100	19.62	0.092
3	64QAM	15	0	19.95	0.099	20.05	0.101	19.52	0.090

LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	21.81	0.152	21.88	0.154	21.39	0.138
1.4	QPSK	1	3	21.94	0.156	21.95	0.157	21.51	0.142
1.4	QPSK	1	5	21.83	0.152	21.77	0.150	21.45	0.140
1.4	QPSK	3	0	21.84	0.153	21.90	0.155	21.43	0.139
1.4	QPSK	3	1	21.90	0.155	21.95	0.157	21.59	0.144



1.4	QPSK	3	3	21.91	0.155	21.93	0.156	21.50	0.141
1.4	QPSK	6	0	20.94	0.124	20.93	0.124	20.58	0.114
1.4	16QAM	1	0	21.24	0.133	20.88	0.122	20.71	0.118
1.4	16QAM	1	3	21.45	0.140	21.11	0.129	20.66	0.116
1.4	16QAM	1	5	21.26	0.134	20.94	0.124	20.66	0.116
1.4	16QAM	3	0	20.79	0.120	20.77	0.119	20.57	0.114
1.4	16QAM	3	1	20.82	0.121	21.09	0.129	20.61	0.115
1.4	16QAM	3	3	20.90	0.123	21.01	0.126	20.55	0.114
1.4	16QAM	6	0	20.12	0.103	20.07	0.102	19.60	0.091
1.4	64QAM	1	0	20.75	0.119	20.92	0.124	20.60	0.115
1.4	64QAM	1	3	21.06	0.128	21.07	0.128	20.68	0.117
1.4	64QAM	1	5	21.01	0.126	21.00	0.126	20.54	0.113
1.4	64QAM	3	0	20.67	0.117	20.94	0.124	20.61	0.115
1.4	64QAM	3	1	20.95	0.124	20.89	0.123	20.56	0.114
1.4	64QAM	3	3	20.85	0.122	21.02	0.126	20.72	0.118
1.4	64QAM	6	0	19.93	0.098	20.05	0.101	19.60	0.091

LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20850		21100		21350	
Frequency (MHz)				2510		2535		2560	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	22.74	22.78	22.81	22.74	22.78	22.81
20	QPSK	1	49	22.62	22.87	22.76	22.62	22.87	22.76
20	QPSK	1	99	22.78	22.73	22.78	22.78	22.73	22.78
20	QPSK	50	0	21.77	21.94	21.81	21.77	21.94	21.81
20	QPSK	50	24	21.83	21.80	21.70	21.83	21.80	21.70
20	QPSK	50	50	21.93	21.96	21.93	21.93	21.96	21.93
20	QPSK	100	0	21.88	21.90	21.87	21.88	21.90	21.87
20	16QAM	1	0	21.69	21.79	21.97	21.69	21.79	21.97
20	16QAM	1	49	21.84	21.70	21.98	21.84	21.70	21.98
20	16QAM	1	99	21.82	21.72	21.89	21.82	21.72	21.89
20	16QAM	50	0	20.88	20.98	20.91	20.88	20.98	20.91
20	16QAM	50	24	20.93	20.85	20.96	20.93	20.85	20.96
20	16QAM	50	50	21.01	21.06	20.89	21.01	21.06	20.89



20	16QAM	100	0	20.89	21.01	20.99	20.89	21.01	20.99
20	64QAM	1	0	21.99	22.34	21.56	21.99	22.34	21.56
20	64QAM	1	49	21.93	21.90	21.95	21.93	21.90	21.95
20	64QAM	1	99	21.91	21.96	21.87	21.91	21.96	21.87
20	64QAM	50	0	20.90	20.91	20.96	20.90	20.91	20.96
20	64QAM	50	24	20.95	20.96	20.96	20.95	20.96	20.96
20	64QAM	50	50	20.99	21.06	20.91	20.99	21.06	20.91
20	64QAM	100	0	20.92	20.89	21.01	20.92	20.89	21.01

LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20825		21100		21375	
Frequency (MHz)				2507.5		2535		2562.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	22.71	0.187	22.80	0.191	22.80	0.191
15	QPSK	1	37	22.81	0.191	22.78	0.190	22.82	0.191
15	QPSK	1	74	22.75	0.188	22.82	0.191	22.82	0.191
15	QPSK	36	0	21.86	0.153	21.95	0.157	21.97	0.157
15	QPSK	36	20	21.94	0.156	22.01	0.159	21.96	0.157
15	QPSK	36	39	21.97	0.157	22.00	0.158	22.04	0.160
15	QPSK	75	0	22.03	0.160	21.96	0.157	21.98	0.158
15	16QAM	1	0	22.19	0.166	22.30	0.170	22.37	0.173
15	16QAM	1	37	22.01	0.159	22.12	0.163	22.10	0.162
15	16QAM	1	74	22.05	0.160	22.05	0.160	22.27	0.169
15	16QAM	36	0	20.89	0.123	21.00	0.126	21.02	0.126
15	16QAM	36	20	20.96	0.125	20.99	0.126	20.98	0.125
15	16QAM	36	39	21.02	0.126	21.00	0.126	20.89	0.123
15	16QAM	75	0	20.97	0.125	21.05	0.127	20.97	0.125
15	64QAM	1	0	21.89	0.155	22.35	0.172	21.74	0.149
15	64QAM	1	37	21.79	0.151	21.94	0.156	22.03	0.160
15	64QAM	1	74	21.78	0.151	21.90	0.155	21.96	0.157
15	64QAM	36	0	20.88	0.122	20.96	0.125	20.95	0.124
15	64QAM	36	20	20.99	0.126	20.98	0.125	21.05	0.127
15	64QAM	36	39	21.03	0.127	20.94	0.124	20.96	0.125
15	64QAM	75	0	20.88	0.122	20.98	0.125	20.93	0.124



LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20800		21100		21400	
Frequency (MHz)				2505		2535		2565	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	22.70	22.57	22.60	22.70	22.57	22.60
10	QPSK	1	25	22.73	22.63	22.65	22.73	22.63	22.65
10	QPSK	1	49	22.66	22.63	22.65	22.66	22.63	22.65
10	QPSK	25	0	21.78	21.78	21.77	21.78	21.78	21.77
10	QPSK	25	12	21.74	21.86	21.91	21.74	21.86	21.91
10	QPSK	25	25	21.67	21.85	21.85	21.67	21.85	21.85
10	QPSK	50	0	21.76	21.88	21.87	21.76	21.88	21.87
10	16QAM	1	0	21.81	21.99	21.84	21.81	21.99	21.84
10	16QAM	1	25	21.80	21.82	21.87	21.80	21.82	21.87
10	16QAM	1	49	22.27	22.17	22.08	22.27	22.17	22.08
10	16QAM	25	0	20.76	20.83	20.91	20.76	20.83	20.91
10	16QAM	25	12	20.77	20.94	20.87	20.77	20.94	20.87
10	16QAM	25	25	20.82	20.85	20.77	20.82	20.85	20.77
10	16QAM	50	0	20.85	20.94	20.79	20.85	20.94	20.79
10	64QAM	1	0	21.89	21.85	21.83	21.89	21.85	21.83
10	64QAM	1	25	21.58	21.83	21.66	21.58	21.83	21.66
10	64QAM	1	49	21.69	21.93	21.74	21.69	21.93	21.74
10	64QAM	25	0	20.80	20.78	20.82	20.80	20.78	20.82
10	64QAM	25	12	20.82	20.93	20.86	20.82	20.93	20.86
10	64QAM	25	25	20.75	20.65	20.64	20.75	20.65	20.64
10	64QAM	50	0	20.85	20.91	20.83	20.85	20.91	20.83

LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20775		21100		21425	
Frequency (MHz)				2502.5		2535		2567.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	22.53	0.179	22.58	0.181	22.71	0.187



5	QPSK	1	12	22.62	0.183	22.70	0.186	22.78	0.190
5	QPSK	1	24	22.71	0.187	22.77	0.189	22.81	0.191
5	QPSK	12	0	21.74	0.149	21.82	0.152	21.74	0.149
5	QPSK	12	7	21.81	0.152	21.96	0.157	21.88	0.154
5	QPSK	12	13	21.83	0.152	21.99	0.158	21.84	0.153
5	QPSK	25	0	21.84	0.153	21.85	0.153	21.80	0.151
5	16QAM	1	0	21.82	0.152	21.80	0.151	21.86	0.153
5	16QAM	1	12	21.87	0.154	22.09	0.162	21.99	0.158
5	16QAM	1	24	21.93	0.156	22.12	0.163	21.94	0.156
5	16QAM	12	0	20.79	0.120	20.73	0.118	20.86	0.122
5	16QAM	12	7	20.88	0.122	21.00	0.126	20.96	0.125
5	16QAM	12	13	20.98	0.125	21.04	0.127	20.87	0.122
5	16QAM	25	0	20.85	0.122	20.90	0.123	20.91	0.123
5	64QAM	1	0	21.81	0.152	21.86	0.153	21.82	0.152
5	64QAM	1	12	21.86	0.153	21.98	0.158	21.86	0.153
5	64QAM	1	24	21.90	0.155	22.00	0.158	21.96	0.157
5	64QAM	12	0	20.86	0.122	20.83	0.121	20.88	0.122
5	64QAM	12	7	20.95	0.124	21.00	0.126	20.79	0.120
5	64QAM	12	13	20.90	0.123	20.99	0.126	20.85	0.122
5	64QAM	25	0	20.85	0.122	20.84	0.121	20.89	0.123

LTE Band 12				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	21.82	0.152	21.83	0.152	21.70	0.148
10	QPSK	1	25	21.60	0.145	21.81	0.152	21.66	0.147
10	QPSK	1	49	21.60	0.145	21.79	0.151	21.98	0.158
10	QPSK	25	0	20.85	0.122	20.95	0.124	20.86	0.122
10	QPSK	25	12	20.94	0.124	20.89	0.123	20.95	0.124
10	QPSK	25	25	20.87	0.122	20.93	0.124	20.86	0.122
10	QPSK	50	0	20.88	0.122	20.90	0.123	20.81	0.121
10	16QAM	1	0	21.25	0.133	20.80	0.120	20.86	0.122
10	16QAM	1	25	21.40	0.138	20.95	0.124	21.27	0.134



10	16QAM	1	49	21.09	0.129	21.14	0.130	21.03	0.127
10	16QAM	25	0	19.87	0.097	19.89	0.097	19.83	0.096
10	16QAM	25	12	19.91	0.098	19.95	0.099	19.84	0.096
10	16QAM	25	25	19.96	0.099	19.97	0.099	19.91	0.098
10	16QAM	50	0	19.86	0.097	19.94	0.099	19.99	0.100
10	64QAM	1	0	20.79	0.120	20.91	0.123	21.25	0.133
10	64QAM	1	25	21.23	0.133	21.29	0.135	20.88	0.122
10	64QAM	1	49	21.25	0.133	20.93	0.124	20.86	0.122
10	64QAM	25	0	19.87	0.097	19.81	0.096	19.78	0.095
10	64QAM	25	12	19.92	0.098	19.95	0.099	19.87	0.097
10	64QAM	25	25	19.97	0.099	19.94	0.099	19.94	0.099
10	64QAM	50	0	19.89	0.097	19.82	0.096	19.93	0.098

LTE Band 12				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23095		23155	
Frequency (MHz)				701.5		707.5		713.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	21.57	0.144	21.73	0.149	21.68	0.147
5	QPSK	1	12	21.73	0.149	21.89	0.155	21.73	0.149
5	QPSK	1	24	21.69	0.148	21.88	0.154	21.74	0.149
5	QPSK	12	0	20.80	0.120	20.87	0.122	20.86	0.122
5	QPSK	12	7	20.91	0.123	20.93	0.124	20.90	0.123
5	QPSK	12	13	20.86	0.122	20.89	0.123	20.86	0.122
5	QPSK	25	0	20.82	0.121	20.94	0.124	20.90	0.123
5	16QAM	1	0	20.83	0.121	20.85	0.122	20.87	0.122
5	16QAM	1	12	21.00	0.126	20.95	0.124	20.96	0.125
5	16QAM	1	24	20.96	0.125	20.94	0.124	20.90	0.123
5	16QAM	12	0	19.81	0.096	19.78	0.095	19.81	0.096
5	16QAM	12	7	19.95	0.099	20.00	0.100	19.84	0.096
5	16QAM	12	13	19.90	0.098	19.87	0.097	19.92	0.098
5	16QAM	25	0	19.91	0.098	19.87	0.097	19.89	0.097
5	64QAM	1	0	20.77	0.119	20.78	0.120	20.83	0.121
5	64QAM	1	12	21.22	0.132	20.92	0.124	20.85	0.122
5	64QAM	1	24	21.20	0.132	20.89	0.123	20.94	0.124
5	64QAM	12	0	19.85	0.097	19.87	0.097	19.82	0.096



5	64QAM	12	7	19.95	0.099	19.83	0.096	19.89	0.097
5	64QAM	12	13	19.82	0.096	19.92	0.098	19.97	0.099
5	64QAM	25	0	19.97	0.099	19.93	0.098	19.90	0.098

LTE Band 12				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23025		23095		23165	
Frequency (MHz)				700.5		707.5		714.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	21.65	0.146	21.74	0.149	21.59	0.144
3	QPSK	1	8	21.83	0.152	21.82	0.152	21.92	0.156
3	QPSK	1	14	21.77	0.150	21.88	0.154	21.83	0.152
3	QPSK	8	0	20.88	0.122	20.86	0.122	20.86	0.122
3	QPSK	8	4	20.91	0.123	20.94	0.124	20.95	0.124
3	QPSK	8	7	20.86	0.122	20.94	0.124	20.88	0.122
3	QPSK	15	0	20.85	0.122	20.93	0.124	20.79	0.120
3	16QAM	1	0	20.86	0.122	21.22	0.132	20.81	0.121
3	16QAM	1	8	21.06	0.128	21.04	0.127	20.99	0.126
3	16QAM	1	14	20.89	0.123	20.94	0.124	21.41	0.138
3	16QAM	8	0	19.97	0.099	19.86	0.097	19.89	0.097
3	16QAM	8	4	20.02	0.100	19.99	0.100	20.10	0.102
3	16QAM	8	7	19.86	0.097	19.89	0.097	19.95	0.099
3	16QAM	15	0	19.84	0.096	19.77	0.095	19.76	0.095
3	64QAM	1	0	20.78	0.120	21.12	0.129	21.11	0.129
3	64QAM	1	8	21.35	0.136	21.35	0.136	21.26	0.134
3	64QAM	1	14	21.19	0.132	20.85	0.122	21.29	0.135
3	64QAM	8	0	19.78	0.095	19.86	0.097	19.77	0.095
3	64QAM	8	4	19.87	0.097	19.91	0.098	19.90	0.098
3	64QAM	8	7	19.86	0.097	19.78	0.095	19.93	0.098
3	64QAM	15	0	19.85	0.097	19.87	0.097	19.79	0.095

LTE Band 12	Measured ERP
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BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	21.68	0.147	21.72	0.149	21.65	0.146
1.4	QPSK	1	3	21.79	0.151	21.78	0.151	21.80	0.151
1.4	QPSK	1	5	21.68	0.147	21.73	0.149	21.69	0.148
1.4	QPSK	3	0	21.63	0.146	21.76	0.150	21.74	0.149
1.4	QPSK	3	1	21.84	0.153	21.84	0.153	21.85	0.153
1.4	QPSK	3	3	21.79	0.151	21.81	0.152	21.77	0.150
1.4	QPSK	6	0	20.85	0.122	20.82	0.121	20.80	0.120
1.4	16QAM	1	0	20.89	0.123	20.83	0.121	20.52	0.113
1.4	16QAM	1	3	20.70	0.117	21.13	0.130	21.24	0.133
1.4	16QAM	1	5	20.82	0.121	20.83	0.121	20.82	0.121
1.4	16QAM	3	0	20.66	0.116	20.69	0.117	20.70	0.117
1.4	16QAM	3	1	20.82	0.121	20.90	0.123	20.74	0.119
1.4	16QAM	3	3	20.65	0.116	20.79	0.120	20.79	0.120
1.4	16QAM	6	0	19.81	0.096	19.82	0.096	19.84	0.096
1.4	64QAM	1	0	20.62	0.115	20.77	0.119	20.61	0.115
1.4	64QAM	1	3	20.74	0.119	21.25	0.133	20.72	0.118
1.4	64QAM	1	5	20.90	0.123	20.93	0.124	20.89	0.123
1.4	64QAM	3	0	20.80	0.120	20.81	0.121	20.64	0.116
1.4	64QAM	3	1	20.78	0.120	21.02	0.126	20.87	0.122
1.4	64QAM	3	3	20.80	0.120	20.64	0.116	20.80	0.120
1.4	64QAM	6	0	19.87	0.097	19.88	0.097	19.75	0.094

LTE Band 17				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	22.22	0.167	22.23	0.167	22.04	0.160
10	QPSK	1	25	22.08	0.161	22.11	0.163	21.91	0.155
10	QPSK	1	49	22.00	0.158	22.12	0.163	21.80	0.151



10	QPSK	25	0	21.31	0.135	21.33	0.136	21.14	0.130
10	QPSK	25	12	21.28	0.134	21.30	0.135	21.05	0.127
10	QPSK	25	25	21.28	0.134	21.19	0.132	21.02	0.126
10	QPSK	50	0	21.21	0.132	21.22	0.132	20.99	0.126
10	16QAM	1	0	21.38	0.137	21.57	0.144	21.28	0.134
10	16QAM	1	25	21.61	0.145	21.64	0.146	21.32	0.136
10	16QAM	1	49	21.23	0.133	21.29	0.135	21.36	0.137
10	16QAM	25	0	20.32	0.108	20.33	0.108	20.15	0.104
10	16QAM	25	12	20.26	0.106	20.34	0.108	19.96	0.099
10	16QAM	25	25	20.29	0.107	20.22	0.105	19.95	0.099
10	16QAM	50	0	20.30	0.107	20.21	0.105	20.11	0.103
10	64QAM	1	0	21.39	0.138	21.84	0.153	21.42	0.139
10	64QAM	1	25	21.40	0.138	21.41	0.138	21.44	0.139
10	64QAM	1	49	21.41	0.138	21.45	0.140	21.49	0.141
10	64QAM	25	0	20.23	0.105	20.34	0.108	20.01	0.100
10	64QAM	25	12	20.22	0.105	20.39	0.109	20.10	0.102
10	64QAM	25	25	20.34	0.108	20.23	0.105	19.93	0.098
10	64QAM	50	0	20.30	0.107	20.26	0.106	20.12	0.103

LTE Band 17				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23790		23155	
Frequency (MHz)				706.5		710		713.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	21.93	0.156	22.10	0.162	22.12	0.163
5	QPSK	1	12	22.37	0.173	22.41	0.174	22.41	0.174
5	QPSK	1	24	22.25	0.168	22.19	0.166	22.21	0.166
5	QPSK	12	0	21.36	0.137	21.33	0.136	21.37	0.137
5	QPSK	12	7	21.47	0.140	21.51	0.142	21.52	0.142
5	QPSK	12	13	21.44	0.139	21.46	0.140	21.43	0.139
5	QPSK	25	0	21.45	0.140	21.34	0.136	21.38	0.137
5	16QAM	1	0	21.36	0.137	21.03	0.127	21.49	0.141
5	16QAM	1	12	21.94	0.156	21.33	0.136	21.75	0.150
5	16QAM	1	24	21.74	0.149	21.07	0.128	21.56	0.143



REPORT No.: SZ19070119W08

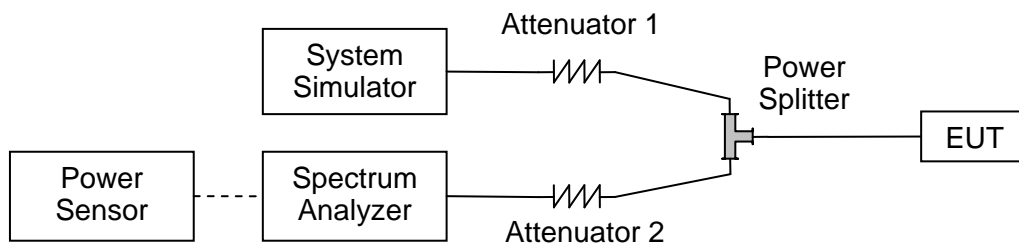
5	16QAM	12	0	20.32	0.108	20.37	0.109	20.35	0.108
5	16QAM	12	7	20.47	0.111	20.37	0.109	20.49	0.112
5	16QAM	12	13	20.43	0.110	20.42	0.110	20.42	0.110
5	16QAM	25	0	20.44	0.111	20.38	0.109	20.42	0.110
5	64QAM	1	0	21.03	0.127	21.20	0.132	21.28	0.134
5	64QAM	1	12	21.82	0.152	21.47	0.140	21.44	0.139
5	64QAM	1	24	21.69	0.148	21.22	0.132	21.29	0.135
5	64QAM	12	0	20.21	0.105	20.36	0.109	20.37	0.109
5	64QAM	12	7	20.46	0.111	20.39	0.109	20.53	0.113
5	64QAM	12	13	20.44	0.111	20.46	0.111	20.24	0.106
5	64QAM	25	0	20.40	0.110	20.44	0.111	20.45	0.111

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.



2.2.4. Test Result

LTE Band 2							
BW (MHz)	Modulation	Low CH		Mid CH		High CH	
		OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)
1.4	QPSK	1.09	1.24	1.09	1.24	1.09	1.24
	16QAM	1.09	1.24	1.10	1.24	1.09	1.23
	64QAM	1.10	1.24	1.10	1.24	1.10	1.24
3	QPSK	2.69	2.99	2.70	3.01	2.70	2.99
	16QAM	2.70	3.01	2.70	3.01	2.70	3.02
	64QAM	2.70	2.99	2.70	3.00	2.70	3.01
5	QPSK	4.50	4.97	4.50	5.00	4.50	5.00
	16QAM	4.51	4.99	4.50	4.99	4.51	4.96
	64QAM	4.50	4.97	4.51	4.98	4.50	4.92
10	QPSK	8.98	9.79	8.98	9.81	9.01	9.80
	16QAM	8.96	9.71	8.97	9.78	8.97	9.77
	64QAM	8.96	9.84	8.98	9.74	8.97	9.81
15	QPSK	13.44	14.66	13.45	14.71	13.50	14.75
	16QAM	13.44	14.80	13.48	14.63	13.49	14.85
	64QAM	13.47	14.69	13.48	14.70	13.48	14.74
20	QPSK	17.94	19.54	17.99	19.54	18.00	19.57
	16QAM	17.98	19.54	17.99	19.57	18.00	19.63
	64QAM	17.92	19.54	17.97	19.61	17.97	19.47

LTE Band 4							
BW (MHz)	Modulation	Low CH		Mid CH		High CH	
		OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)
1.4	QPSK	1.10	1.25	1.09	1.24	1.10	1.24
	16QAM	1.10	1.24	1.10	1.24	1.09	1.24
	64QAM	1.10	1.24	1.10	1.24	1.10	1.24
3	QPSK	2.70	3.01	2.70	3.00	2.70	2.99
	16QAM	2.70	3.02	2.70	3.01	2.70	3.01
	64QAM	2.70	3.03	2.70	3.01	2.70	3.01
5	QPSK	4.50	4.99	4.51	4.97	4.51	4.96



	16QAM	4.50	4.96	4.50	4.97	4.51	4.98
	64QAM	4.51	4.96	4.51	4.96	4.50	4.96
10	QPSK	9.00	9.81	9.00	9.84	8.97	9.81
	16QAM	8.97	9.82	8.97	9.82	8.99	9.84
	64QAM	8.97	9.75	8.96	9.78	8.97	9.82
15	QPSK	13.48	14.64	13.48	14.60	13.50	14.70
	16QAM	13.46	14.62	13.44	14.76	13.47	14.62
	64QAM	13.46	14.74	13.47	14.63	13.45	14.6
20	QPSK	17.95	19.49	17.94	19.49	17.93	19.54
	16QAM	17.95	19.45	17.98	19.42	17.96	19.51
	64QAM	17.93	19.48	17.95	19.58	17.98	19.55

LTE Band 5							
BW (MHz)	Modulation	Low CH		Mid CH		High CH	
		OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)
1.4	QPSK	1.09	1.23	1.09	1.24	1.09	1.24
	16QAM	1.10	1.24	1.09	1.23	1.10	1.24
	64QAM	1.10	1.24	1.10	1.24	1.09	1.24
3	QPSK	2.70	2.99	2.70	3.00	2.70	2.99
	16QAM	2.70	3.01	2.70	3.01	2.71	3.00
	64QAM	2.70	3.01	2.70	3.02	2.70	3.01
5	QPSK	4.50	4.95	4.50	4.98	4.50	4.97
	16QAM	4.51	4.95	4.50	4.93	4.51	4.95
	64QAM	4.50	4.96	4.51	4.99	4.50	4.93
10	QPSK	9.02	9.78	9.02	9.79	9.01	9.83
	16QAM	8.96	9.80	8.97	9.73	8.96	9.79
	64QAM	8.97	9.76	8.97	9.72	8.97	9.76

LTE Band 7							
BW (MHz)	Modulation	Low CH		Mid CH		High CH	
		OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)
5	QPSK	4.49	4.99	4.51	4.98	4.51	4.99
	16QAM	4.49	4.88	4.51	4.98	4.49	4.88
	64QAM	4.49	4.96	4.49	4.93	4.49	4.96



10	QPSK	8.99	9.78	9.02	9.82	8.98	9.94
	16QAM	8.97	9.77	8.95	9.70	8.97	9.81
	64QAM	8.98	9.73	8.97	9.77	8.99	9.83
15	QPSK	13.47	14.62	13.47	14.72	13.47	14.72
	16QAM	13.45	14.54	13.46	14.68	13.47	14.66
	64QAM	13.46	14.68	13.48	14.63	13.46	14.68
20	QPSK	17.94	19.45	17.96	19.5	17.96	19.54
	16QAM	17.94	19.47	17.96	19.49	17.94	19.48
	64QAM	17.93	19.48	17.95	19.52	17.93	19.45

LTE Band 12							
BW (MHz)	Modulation	Low CH		Mid CH		High CH	
		OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)
1.4	QPSK	1.09	1.24	1.10	1.24	1.09	1.24
	16QAM	1.10	1.24	1.09	1.25	1.10	1.24
	64QAM	1.10	1.24	1.10	1.24	1.09	1.24
3	QPSK	2.70	3.00	2.70	2.99	2.70	2.98
	16QAM	2.70	3.01	2.70	3.01	2.70	3.01
	64QAM	2.71	3.01	2.71	3.01	2.70	3.01
5	QPSK	4.51	4.99	4.50	4.96	4.50	4.97
	16QAM	4.51	4.99	4.50	4.97	4.50	4.94
	64QAM	4.51	4.97	4.51	4.95	4.50	4.99
10	QPSK	9.01	9.85	9.00	9.81	8.98	9.75
	16QAM	8.97	9.76	8.96	9.74	8.96	9.77
	64QAM	8.97	9.77	8.97	9.73	8.96	9.74

LTE Band 17							
BW (MHz)	Modulation	Low CH		Mid CH		High CH	
		OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)
5	QPSK	4.50	4.99	4.50	4.97	4.50	4.98
	16QAM	4.51	4.95	4.50	4.94	4.50	4.96
	64QAM	4.50	4.97	4.50	4.97	4.50	4.93
10	QPSK	9.0	9.81	8.97	9.77	8.98	9.84
	16QAM	8.96	9.76	8.96	9.76	8.96	9.75



REPORT No.: SZ19070119W08

	64QAM	8.96	9.78	8.97	9.76	8.96	9.81
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