

APPENDIX F: Conducted RF Output Power Table and Tune-up

Tune-up Limit

GSM850	Original power(dBm)	Tolerance
GSM (GMSK, 1Tx-slot)	32.0	-1.0dB~+1.0dB
GPRS (GMSK, 1Tx-slot)	32.0	-1.0dB~+1.0dB
GPRS (GMSK, 2Tx-slot)	30.0	-1.0dB~+1.0dB
GPRS (GMSK, 3Tx-slot)	28.0	-1.0dB~+1.0dB
GPRS (GMSK, 4Tx-slot)	26.5	-1.0dB~+1.0dB
EDGE (8PSK, 1Tx-slot)	28.0	-1.0dB~+1.0dB
EDGE (8PSK, 2Tx-slot)	25.0	-1.0dB~+1.0dB
EDGE (8PSK, 3Tx-slot)	23.0	-1.0dB~+1.0dB
EDGE (8PSK, 4Tx-slot)	22.0	-1.0dB~+1.0dB

GSM1900	Original power(dBm)	Reduce power (dBm)	Tolerance
GSM (GMSK, 1Tx-slot)	29.0	24.0	-1.0dB~+1.0dB
GPRS (GMSK, 1Tx-slot)	29.0	24.5	-1.0dB~+1.0dB
GPRS (GMSK, 2Tx-slot)	26.5	23.0	-1.0dB~+1.0dB
GPRS (GMSK, 3Tx-slot)	25.0	21.0	-1.0dB~+1.0dB
GPRS (GMSK, 4Tx-slot)	23.5	18.5	-1.0dB~+1.0dB
EDGE (8PSK, 1Tx-slot)	25.5	20.5	-1.0dB~+1.0dB
EDGE (8PSK, 2Tx-slot)	22.5	19.0	-1.0dB~+1.0dB
EDGE (8PSK, 3Tx-slot)	20.5	16.5	-1.0dB~+1.0dB
EDGE (8PSK, 4Tx-slot)	19.0	14.5	-1.0dB~+1.0dB

UMTS Band II	Original power(dBm)	Reduce power (dBm)	Tolerance
RMC 12.2K	22.5	18.0	-1.0dB~+1.0dB
HSDPA Sub-test1	22.0	16.0	-1.0dB~+1.0dB
HSDPA Sub-test2	21.0	16.0	-1.0dB~+1.0dB
HSDPA Sub-test3	21.0	16.0	-1.0dB~+1.0dB
HSDPA Sub-test4	21.0	16.0	-1.0dB~+1.0dB
HSUPA Sub-test1	21.0	15.0	-1.0dB~+1.0dB
HSUPA Sub-test2	21.0	15.0	-1.0dB~+1.0dB
HSUPA Sub-test3	21.5	16.0	-1.0dB~+1.0dB
HSUPA Sub-test4	20.0	15.0	-1.0dB~+1.0dB
HSUPA Sub-test5	21.0	16.0	-1.0dB~+1.0dB

UMTS Band IV	Original power(dBm)	Reduce power (dBm)	Tolerance
RMC 12.2K	23.0	17.0	-1.0dB~+1.0dB
HSDPA Sub-test1	22.0	16.0	-1.0dB~+1.0dB
HSDPA Sub-test2	21.0	15.0	-1.0dB~+1.0dB
HSDPA Sub-test3	21.0	15.0	-1.0dB~+1.0dB
HSDPA Sub-test4	21.0	15.0	-1.0dB~+1.0dB
HSUPA Sub-test1	21.0	15.0	-1.0dB~+1.0dB
HSUPA Sub-test2	21.0	15.0	-1.0dB~+1.0dB
HSUPA Sub-test3	22.0	16.0	-1.0dB~+1.0dB
HSUPA Sub-test4	21.0	14.0	-1.0dB~+1.0dB
HSUPA Sub-test5	22.0	16.0	-1.0dB~+1.0dB

UMTS Band V	Original power(dBm)	Tolerance
RMC 12.2K	23.0	-1.0dB~+1.0dB
HSDPA Sub-test1	22.0	-1.0dB~+1.0dB
HSDPA Sub-test2	22.0	-1.0dB~+1.0dB
HSDPA Sub-test3	22.0	-1.0dB~+1.0dB
HSDPA Sub-test4	22.0	-1.0dB~+1.0dB
HSUPA Sub-test1	21.0	-1.0dB~+1.0dB
HSUPA Sub-test2	21.0	-1.0dB~+1.0dB
HSUPA Sub-test3	22.0	-1.0dB~+1.0dB
HSUPA Sub-test4	20.0	-1.0dB~+1.0dB
HSUPA Sub-test5	21.0	-1.0dB~+1.0dB

The LTE Band 2 power adjust procedure

LTE Band 2	Original Tune up (dBm)	Reduce power (dBm)	unit (dBm)
1.4/3/5/10/15/20 MHz QPSK	22.0	17.0	-1.0~+1.0
1.4/3/5/10/15/20 MHz 16QAM	21.0	16.0	-1.0~+1.0
1.4/3/5/10/15/20 MHz 64QAM	20.0	15.0	-1.0~+1.0

The LTE Band 4 power adjust procedure

LTE Band 4	Original Tune up (dBm)	Reduce power (dBm)	unit (dBm)
1.4/3/5/10/15/20 MHz QPSK	22.0	16.5	-1.0~+1.0
1.4/3/5/10/15/20 MHz 16QAM	21.0	15.5	-1.0~+1.0
1.4/3/5/10/15/20 MHz 64QAM	20.0	14.5	-1.0~+1.0

The LTE Band 5 power adjust procedure

LTE Band 5	Original Tune up (dBm)	unit (dBm)
1.4/3/5/10 MHz QPSK	22.0	-1.0~+1.0
1.4/3/5/10 MHz 16QAM	21.0	-1.0~+1.0
1.4/3/5/10 MHz 64QAM	20.0	-1.0~+1.0

The LTE Band 7 power adjust procedure

LTE Band 7	Original Tune up (dBm)	Reduce power (dBm)	unit (dBm)
5/10/15/20 MHz QPSK	22.0	20.0	-1.0~+1.0
5/10/15/20 MHz 16QAM	21.0	19.0	-1.0~+1.0
5/10/15/20 MHz 64QAM	20.0	18.0	-1.0~+1.0

The LTE Band 12 power adjust procedure

LTE Band 12	Original Tune up (dBm)	unit (dBm)
1.4/3/5/10 MHz QPSK	23.0	-1.0~+1.0
1.4/3/5/10 MHz 16QAM	22.0	-1.0~+1.0
1.4/3/5/10 MHz 64QAM	21.0	-1.0~+1.0

The LTE Band 13 power adjust procedure

LTE Band 13	Original Tune up (dBm)	unit (dBm)
5/10 MHz QPSK	23.0	-1.0~+1.0
5/10 MHz 16QAM	22.0	-1.0~+1.0
5/10 MHz 64QAM	21.0	-1.0~+1.0

The LTE Band 14 power adjust procedure

LTE Band 14	Original Tune up (dBm)	unit (dBm)
5/10 MHz QPSK	23.0	-1.0~+1.0
5/10 MHz 16QAM	22.0	-1.0~+1.0
5/10 MHz 64QAM	21.0	-1.0~+1.0

The LTE Band 17 power adjust procedure

LTE Band 17	Original Tune up (dBm)	unit (dBm)
5/10 MHz QPSK	23.0	-1.0~+1.0
5/10 MHz 16QAM	22.0	-1.0~+1.0
5/10 MHz 64QAM	21.0	-1.0~+1.0

The LTE Band 25 power adjust procedure

LTE Band 25	Original Tune up (dBm)	Reduce power (dBm)	unit (dBm)
1.4/3/5/10/15/20 MHz QPSK	22.0	17.0	-1.0~+1.0
1.4/3/5/10/15/20 MHz 16QAM	21.0	16.0	-1.0~+1.0
1.4/3/5/10/15/20 MHz 64QAM	20.0	15.0	-1.0~+1.0

The LTE Band 26 power adjust procedure

LTE Band 26	Original Tune up (dBm)	unit (dBm)
1.4/3/5/10 MHz QPSK	22.5	-1.0~+1.0
1.4/3/5/10 MHz 16QAM	21.5	-1.0~+1.0
1.4/3/5/10 MHz 64QAM	20.5	-1.0~+1.0

The LTE Band 30 power adjust procedure

LTE Band 30	Original Tune up (dBm)	Reduce power (dBm)	unit (dBm)
5/10 MHz QPSK	22.0	19.0	-1.0~+1.0
5/10 MHz 16QAM	21.0	18.0	-1.0~+1.0
5/10 MHz 64QAM	20.0	17.0	-1.0~+1.0

The LTE Band 38 power adjust procedure

LTE Band 38	Original Tune up (dBm)	unit (dBm)
5/10/15/20 MHz QPSK	23.0	-1.0~+1.0
5/10/15/20 MHz 16QAM	22.0	-1.0~+1.0
5/10/15/20 MHz 64QAM	21.0	-1.0~+1.0

The LTE Band 40 power adjust procedure

LTE Band 40	Original Tune up (dBm)	unit (dBm)
5/10 MHz QPSK	22.0	-1.0~+1.0
5/10 MHz 16QAM	21.0	-1.0~+1.0
5/10 MHz 64QAM	20.0	-1.0~+1.0

The LTE Band 41 power adjust procedure

LTE Band 41	Original Tune up (dBm)	unit (dBm)
5/10/15/20 MHz QPSK	23.0	-1.0~+1.0
5/10/15/20 MHz 16QAM	22.0	-1.0~+1.0
5/10/15/20 MHz 64QAM	21.0	-1.0~+1.0

The LTE Band 66 power adjust procedure

LTE Band 66	Original Tune up (dBm)	Reduce power (dBm)	unit (dBm)
1.4/3/5/10/15/20 MHz QPSK	22.0	16.5	-1.0~+1.0
1.4/3/5/10/15/20 MHz 16QAM	21.0	15.5	-1.0~+1.0
1.4/3/5/10/15/20 MHz 64QAM	20.0	14.5	-1.0~+1.0

The LTE Band 71 power adjust procedure

LTE Band 71	Original Tune up (dBm)	unit (dBm)
5/10/15/20 MHz QPSK	23.5	-1.0~+1.0
5/10/15/20 MHz 16QAM	22.5	-1.0~+1.0
5/10/15/20 MHz 64QAM	21.5	-1.0~+1.0

Power

Original power

Band: GSM850	<u>Burst Average Power (dBm)</u>			<u>Frame Average Power (dBm)</u>		
<u>Channel</u>	128	190	251	128	190	251
<u>GSM (CS)</u>	32.44	32.39	32.28	23.44	23.39	23.28
<u>GPRS/EDGE</u> <u>(GMSK, 1 Tx</u> <u>slot)</u>	32.45	32.38	32.26	23.45	23.38	23.26
<u>GPRS/EDGE</u> <u>(GMSK, 2 Tx</u> <u>slots)</u>	29.98	29.97	29.88	23.98	23.97	23.88
<u>GPRS/EDGE</u> <u>(GMSK, 3 Tx</u> <u>slots)</u>	28.48	28.49	28.40	24.22	24.23	24.14
<u>GPRS/EDGE</u> <u>(GMSK, 4 Tx</u> <u>slots)</u>	26.79	26.83	26.77	23.79	23.83	23.77
<u>EDGE (8PSK,</u> <u>1 Tx slot)</u>	27.80	27.79	27.58	18.80	18.79	18.58
<u>EDGE (8PSK,</u> <u>2 Tx slots)</u>	24.91	25.01	24.81	18.91	19.01	18.81
<u>EDGE (8PSK,</u> <u>3 Tx slots)</u>	23.14	23.23	23.09	18.88	18.97	18.83
<u>EDGE (8PSK,</u> <u>4 Tx slots)</u>	21.47	21.60	21.37	18.47	18.60	18.37

<u>Band:</u> <u>DCS1900</u>	<u>Burst Average Power (dBm)</u>			<u>Frame Average Power (dBm)</u>		
<u>Channel</u>	512	661	810	512	661	810
<u>GSM (CS)</u>	29.47	29.09	28.68	20.47	20.09	19.68
<u>GPRS/EDGE</u> <u>(GMSK, 1 Tx</u> <u>slot)</u>	29.46	29.09	28.67	20.46	20.09	19.67
<u>GPRS/EDGE</u> <u>(GMSK, 2 Tx</u> <u>slots)</u>	26.94	26.65	26.37	20.94	20.65	20.37
<u>GPRS/EDGE</u> <u>(GMSK, 3 Tx</u> <u>slots)</u>	25.34	25.16	24.91	21.08	20.90	20.65
<u>GPRS/EDGE</u> <u>(GMSK, 4 Tx</u> <u>slots)</u>	23.70	23.61	23.39	20.70	20.61	20.39
<u>EDGE (8PSK,</u> <u>1 Tx slot)</u>	25.38	25.32	25.50	16.38	16.32	16.50
<u>EDGE (8PSK,</u> <u>2 Tx slots)</u>	22.39	22.39	22.63	16.39	16.39	16.63
<u>EDGE (8PSK,</u> <u>3 Tx slots)</u>	20.73	20.68	20.90	16.47	16.42	16.64
<u>EDGE (8PSK,</u> <u>4 Tx slots)</u>	18.83	18.83	18.99	15.83	15.83	15.99

UMTS Band II		Conducted Power (dBm)		
		9262	9400	9538
WCDMA	12.2kbps RMC	23.07	22.87	23.07
HSDPA	Subtest 1	22.14	21.97	22.18
	Subtest 2	21.41	21.16	21.44
	Subtest 3	21.48	21.20	21.40
	Subtest 4	21.45	21.14	21.47
HSUPA	Subtest 1	20.77	20.58	20.78
	Subtest 2	20.80	20.67	20.84
	Subtest 3	21.82	21.64	21.87
	Subtest 4	20.35	20.08	20.32
	Subtest 5	21.68	21.36	21.62

UMTS Band IV		Conducted Power (dBm)		
		1312	1412	1513
WCDMA	12.2kbps RMC	23.12	23.32	23.28
HSDPA	Subtest 1	22.17	22.39	22.28
	Subtest 2	21.46	21.69	21.58
	Subtest 3	21.46	21.62	21.55
	Subtest 4	21.40	21.64	21.54
HSUPA	Subtest 1	20.81	20.94	20.90
	Subtest 2	20.93	21.20	21.10
	Subtest 3	21.84	22.02	21.98
	Subtest 4	20.38	20.56	20.44
	Subtest 5	21.74	21.96	21.87

UMTS Band V		Conducted Power (dBm)		
		4132	4183	4233
WCDMA	12.2kbps RMC	23.38	23.20	23.24
HSDPA	Subtest 1	22.36	22.19	22.29
	Subtest 2	21.67	21.48	21.52
	Subtest 3	21.57	21.47	21.42
	Subtest 4	21.52	21.44	21.46
HSUPA	Subtest 1	20.94	20.30	20.33
	Subtest 2	20.57	20.44	20.45
	Subtest 3	21.52	21.36	21.42
	Subtest 4	20.06	19.93	19.95
	Subtest 5	21.44	21.31	21.30

LTE Band2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	22.02	22.09	21.82
		1	3	22.03	22.10	21.84
		1	5	22.01	22.10	21.82
		3	0	21.06	21.28	21.04
		3	1	21.05	21.27	21.04
		3	3	21.02	21.27	21.04
		6	0	21.03	21.25	21.05
	16QAM	1	0	21.04	21.30	21.04
		1	3	21.03	21.33	21.01
		1	5	21.02	21.34	21.03
		3	0	20.18	20.52	20.14
		3	1	20.17	20.49	20.14
		3	3	20.14	20.52	20.15
		6	0	20.12	20.49	20.10
	64QAM	1	0	20.08	20.53	20.11
		1	3	20.08	20.48	20.14
		1	5	20.08	20.50	20.16
		3	0	19.03	19.44	19.11
		3	1	19.07	19.43	19.06
		3	3	19.03	19.44	19.02
		6	0	19.00	19.40	19.03
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	21.99	22.03	21.81
		1	8	22.01	22.07	21.84
		1	14	21.99	22.07	21.81
		8	0	21.12	21.30	20.98
		8	4	21.10	21.28	21.00
		8	7	21.07	21.33	21.03
		15	0	21.06	21.37	21.05
	16QAM	1	0	21.03	21.34	21.04
		1	8	21.08	21.30	21.00
		1	14	21.09	21.28	21.03
		8	0	20.20	20.38	20.15
		8	4	20.17	20.40	20.15

		8	7	20.16	20.36	20.10
		15	0	20.19	20.33	20.09
	64QAM	1	0	20.18	20.36	20.09
		1	8	20.20	20.40	20.06
		1	14	20.24	20.35	20.03
		8	0	19.19	19.36	18.96
		8	4	19.23	19.40	18.96
		8	7	19.20	19.36	19.00
		15	0	19.18	19.33	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	21.92	22.02	21.81
		1	13	21.96	22.03	21.85
		1	24	21.96	21.98	21.80
		12	0	21.14	21.08	21.04
		12	6	21.16	21.03	20.99
		12	13	21.15	21.06	21.00
		25	0	21.11	21.09	21.03
	16QAM	1	0	21.15	21.14	21.02
		1	13	21.18	21.10	20.99
		1	24	21.21	21.15	21.02
		12	0	20.30	20.33	20.21
		12	6	20.35	20.30	20.20
		12	13	20.35	20.35	20.23
		25	0	20.36	20.31	20.23
	64QAM	1	0	20.33	20.29	20.26
		1	13	20.32	20.34	20.24
		1	24	20.28	20.33	20.25
		12	0	19.29	19.33	19.16
		12	6	19.28	19.32	19.17
		12	13	19.26	19.29	19.21
		25	0	19.27	19.24	19.24
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	22.00	21.97	21.82
		1	25	22.01	22.01	21.85
		1	49	21.96	21.99	21.81
		25	0	20.99	21.22	21.06

		25	12	21.04	21.18	21.11
		25	25	20.99	21.23	21.15
		50	0	20.97	21.25	21.20
	16QAM	1	0	21.02	21.26	21.20
		1	25	20.99	21.27	21.22
		1	49	20.98	21.28	21.19
		25	0	20.04	20.37	20.29
		25	12	20.09	20.38	20.30
		25	25	20.09	20.38	20.33
		50	0	20.10	20.41	20.32
		1	0	20.09	20.45	20.34
	64QAM	1	25	20.12	20.45	20.32
		1	49	20.13	20.47	20.29
		25	0	19.14	19.41	19.24
		25	12	19.16	19.39	19.25
		25	25	19.19	19.41	19.27
		50	0	19.17	19.42	19.31
		1	0	22.00	21.95	21.86
	QPSK	1	37	22.00	21.98	21.87
		1	74	21.96	21.94	21.86
		36	0	21.14	21.11	21.05
		36	20	21.19	21.13	21.07
		36	39	21.16	21.11	21.05
		75	0	21.15	21.11	21.04
	16QAM	1	0	21.20	21.08	21.02
		1	37	21.16	21.05	21.05
		1	74	21.14	21.02	21.04
		36	0	20.26	20.28	20.17
		36	20	20.21	20.22	20.18
		36	39	20.23	20.23	20.20
		75	0	20.25	20.18	20.25
	64QAM	1	0	20.28	20.13	20.22
		1	37	20.26	20.10	20.21
		1	74	20.25	20.12	20.25
		36	0	19.23	19.10	19.20
		36	20	19.19	19.09	19.16
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125

		36	39	19.20	19.10	19.14
		75	0	19.19	19.08	19.16
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	21.94	21.96	21.88
		1	50	21.98	22.00	21.90
		1	99	21.96	21.99	21.85
		50	0	21.19	21.23	21.06
		50	25	21.22	21.20	21.10
		50	50	21.21	21.20	21.10
		100	0	21.17	21.18	21.12
	16QAM	1	0	21.13	21.21	21.09
		1	50	21.15	21.20	21.07
		1	99	21.18	21.18	21.07
		50	0	20.33	20.43	20.27
		50	25	20.36	20.48	20.29
		50	50	20.39	20.46	20.30
		100	0	20.40	20.44	20.31
	64QAM	1	0	20.41	20.46	20.33
		1	50	20.41	20.48	20.31
		1	99	20.44	20.50	20.35
		50	0	19.36	19.46	19.35
		50	25	19.39	19.42	19.38
		50	50	19.36	19.45	19.42
		100	0	19.33	19.49	19.43

LTE Band4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	22.17	22.16	22.29
		1	3	22.19	22.16	22.31
		1	5	22.16	22.11	22.30
		3	0	21.40	21.29	21.54
		3	1	21.40	21.24	21.52
		3	3	21.36	21.26	21.50
		6	0	21.34	21.25	21.52
	16QAM	1	0	21.32	21.20	21.56
		1	3	21.36	21.24	21.52
		1	5	21.34	21.20	21.54
		3	0	20.58	20.23	20.74
		3	1	20.52	20.20	20.71
		3	3	20.48	20.23	20.67
		6	0	20.51	20.20	20.70
	64QAM	1	0	20.50	20.20	20.70
		1	3	20.45	20.16	20.70
		1	5	20.50	20.15	20.68
		3	0	19.49	19.13	19.58
		3	1	19.46	19.17	19.53
		3	3	19.45	19.21	19.50
		6	0	19.50	19.20	19.52
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	22.17	22.14	22.25
		1	8	22.19	22.15	22.30
		1	14	22.17	22.15	22.28
		8	0	21.38	21.21	21.32
		8	4	21.40	21.22	21.30
		8	7	21.41	21.24	21.27
		15	0	21.40	21.25	21.30
	16QAM	1	0	21.38	21.22	21.26
		1	8	21.38	21.25	21.27
		1	14	21.35	21.24	21.26
		8	0	20.49	20.28	20.29
		8	4	20.48	20.27	20.29

		8	7	20.47	20.29	20.33
		15	0	20.45	20.25	20.29
	64QAM	1	0	20.42	20.22	20.32
		1	8	20.42	20.25	20.36
		1	14	20.39	20.29	20.40
		8	0	19.31	19.25	19.31
		8	4	19.26	19.22	19.31
		8	7	19.30	19.24	19.31
		15	0	19.34	19.24	19.33
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	22.19	22.16	22.27
		1	13	22.23	22.19	22.29
		1	24	22.19	22.16	22.26
		12	0	21.35	21.37	21.36
		12	6	21.39	21.34	21.37
		12	13	21.38	21.35	21.41
		25	0	21.35	21.34	21.45
	16QAM	1	0	21.36	21.31	21.41
		1	13	21.36	21.35	21.39
		1	24	21.40	21.31	21.35
		12	0	20.56	20.35	20.55
		12	6	20.61	20.33	20.61
		12	13	20.57	20.34	20.59
		25	0	20.57	20.29	20.59
	64QAM	1	0	20.58	20.29	20.58
		1	13	20.63	20.27	20.55
		1	24	20.63	20.32	20.57
		12	0	19.57	19.31	19.56
		12	6	19.55	19.28	19.53
		12	13	19.58	19.33	19.49
		25	0	19.58	19.31	19.46
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	22.22	22.13	22.19
		1	25	22.25	22.18	22.24
		1	49	22.21	22.15	22.19
		25	0	21.25	21.34	21.35

		25	12	21.28	21.35	21.31
		25	25	21.28	21.38	21.32
		50	0	21.29	21.36	21.35
	16QAM	1	0	21.33	21.41	21.35
		1	25	21.30	21.43	21.36
		1	49	21.29	21.47	21.37
		25	0	20.35	20.58	20.42
		25	12	20.37	20.51	20.47
		25	25	20.37	20.51	20.49
		50	0	20.38	20.46	20.46
		1	0	20.41	20.48	20.44
	64QAM	1	25	20.42	20.43	20.41
		1	49	20.41	20.46	20.43
		25	0	19.38	19.40	19.40
		25	12	19.34	19.42	19.44
		25	25	19.36	19.46	19.46
		50	0	19.36	19.50	19.50
		1	0	20.41	20.48	20.44
		1	25	20.42	20.43	20.41
		1	49	20.41	20.46	20.43
		25	0	19.38	19.40	19.40
		25	12	19.34	19.42	19.44
		25	25	19.36	19.46	19.46
		50	0	19.36	19.50	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	22.18	22.14	22.19
		1	37	22.20	22.17	22.21
		1	74	22.16	22.17	22.21
		36	0	21.22	21.36	21.39
		36	20	21.24	21.31	21.40
		36	39	21.29	21.30	21.41
		75	0	21.25	21.28	21.37
	16QAM	1	0	21.26	21.26	21.41
		1	37	21.21	21.23	21.40
		1	74	21.17	21.27	21.38
		36	0	20.22	20.27	20.53
		36	20	20.17	20.27	20.57
		36	39	20.18	20.32	20.60
		75	0	20.17	20.31	20.62
	64QAM	1	0	20.13	20.27	20.59
		1	37	20.16	20.29	20.63
		1	74	20.18	20.30	20.61
		36	0	19.09	19.25	19.55
		36	20	19.05	19.25	19.59

		36	39	19.10	19.28	19.58
		75	0	19.14	19.27	19.58
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	22.22	22.25	22.20
		1	50	22.23	22.26	22.25
		1	99	22.22	22.21	22.22
		50	0	21.25	21.22	21.47
		50	25	21.21	21.20	21.46
		50	50	21.17	21.18	21.47
		100	0	21.16	21.16	21.52
	16QAM	1	0	21.20	21.18	21.53
		1	50	21.23	21.19	21.53
		1	99	21.23	21.21	21.48
		50	0	20.29	20.44	20.64
		50	25	20.33	20.40	20.65
		50	50	20.37	20.39	20.63
		100	0	20.36	20.43	20.63
	64QAM	1	0	20.33	20.45	20.59
		1	50	20.34	20.42	20.59
		1	99	20.33	20.44	20.64
		50	0	19.30	19.41	19.62
		50	25	19.34	19.43	19.58
		50	50	19.37	19.42	19.59
		100	0	19.33	19.44	19.60

LTE Band5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	22.49	22.57	22.60
		1	3	22.53	22.61	22.61
		1	5	22.51	22.59	22.58
		3	0	21.51	21.74	21.60
		3	1	21.54	21.74	21.63
		3	3	21.59	21.73	21.62
		6	0	21.61	21.77	21.62
	16QAM	1	0	21.64	21.74	21.57
		1	3	21.60	21.75	21.58
		1	5	21.63	21.74	21.57
		3	0	20.76	20.91	20.58
		3	1	20.72	20.91	20.53
		3	3	20.75	20.91	20.54
		6	0	20.70	20.94	20.58
	64QAM	1	0	20.69	20.99	20.56
		1	3	20.70	21.03	20.56
		1	5	20.71	21.07	20.58
		3	0	19.72	20.02	19.55
		3	1	19.74	20.00	19.51
		3	3	19.75	19.97	19.54
		6	0	19.76	19.94	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	22.56	22.60	22.53
		1	8	22.57	22.60	22.57
		1	14	22.55	22.60	22.56
		8	0	21.80	21.69	21.65
		8	4	21.80	21.72	21.67
		8	7	21.81	21.69	21.62
		15	0	21.78	21.72	21.60
	16QAM	1	0	21.73	21.69	21.56
		1	8	21.74	21.71	21.54
		1	14	21.72	21.68	21.57
		8	0	20.88	20.88	20.80
		8	4	20.83	20.94	20.85

		8	7	20.84	20.96	20.84
		15	0	20.80	20.93	20.82
	64QAM	1	0	20.81	20.89	20.84
		1	8	20.81	20.86	20.87
		1	14	20.81	20.89	20.84
		8	0	19.83	19.82	19.83
		8	4	19.80	19.83	19.80
		8	7	19.78	19.79	19.85
		15	0	19.77	19.83	19.83
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	22.61	22.57	22.57
		1	13	22.62	22.62	22.59
		1	24	22.58	22.60	22.54
		12	0	21.67	21.73	21.71
		12	6	21.63	21.74	21.75
		12	13	21.61	21.71	21.78
		25	0	21.60	21.69	21.78
	16QAM	1	0	21.58	21.64	21.79
		1	13	21.62	21.68	21.82
		1	24	21.64	21.72	21.84
		12	0	20.72	20.74	20.96
		12	6	20.65	20.77	20.95
		12	13	20.66	20.73	20.95
		25	0	20.64	20.75	20.96
	64QAM	1	0	20.65	20.75	20.97
		1	13	20.67	20.76	20.94
		1	24	20.68	20.73	20.93
		12	0	19.64	19.66	19.92
		12	6	19.67	19.69	19.92
		12	13	19.65	19.74	19.96
		25	0	19.63	19.74	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	22.56	22.59	22.51
		1	25	22.58	22.62	22.54
		1	49	22.54	22.57	22.51
		25	0	21.67	21.71	21.61

		25	12	21.67	21.66	21.57
		25	25	21.67	21.70	21.55
		50	0	21.64	21.71	21.51
	16QAM	1	0	21.67	21.72	21.50
		1	25	21.72	21.68	21.55
		1	49	21.71	21.68	21.59
		25	0	20.79	20.70	20.78
		25	12	20.85	20.68	20.79
		25	25	20.90	20.65	20.79
		50	0	20.88	20.61	20.79
		1	0	20.87	20.62	20.80
	64QAM	1	25	20.87	20.59	20.80
		1	49	20.89	20.60	20.80
		25	0	19.88	19.58	19.77
		25	12	19.89	19.60	19.80
		25	25	19.93	19.63	19.79
		50	0	19.90	19.60	19.76

LTE Band7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	22.46	22.50	22.54
		1	13	22.48	22.55	22.55
		1	24	22.43	22.53	22.54
		12	0	21.60	21.63	21.57
		12	6	21.65	21.58	21.62
		12	13	21.68	21.63	21.59
		25	0	21.67	21.67	21.57
	16QAM	1	0	21.62	21.62	21.61
		1	13	21.58	21.59	21.59
		1	24	21.58	21.61	21.55
		12	0	20.76	20.79	20.72
		12	6	20.80	20.78	20.69
		12	13	20.82	20.73	20.70
		25	0	20.82	20.77	20.68
	64QAM	1	0	20.84	20.75	20.67
		1	13	20.87	20.79	20.65
		1	24	20.92	20.81	20.62
		12	0	19.83	19.73	19.64
		12	6	19.80	19.76	19.68
		12	13	19.80	19.80	19.70
		25	0	19.84	19.84	19.73
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	22.46	22.55	22.49
		1	25	22.51	22.56	22.53
		1	49	22.48	22.53	22.51
		25	0	21.52	21.65	21.69
		25	12	21.50	21.65	21.71
		25	25	21.47	21.69	21.67
		50	0	21.42	21.66	21.71
	16QAM	1	0	21.38	21.63	21.68
		1	25	21.35	21.68	21.71
		1	49	21.31	21.73	21.70
		25	0	20.47	20.74	20.85
		25	12	20.45	20.77	20.90

		25	25	20.43	20.76	20.88
		50	0	20.42	20.79	20.86
	64QAM	1	0	20.43	20.79	20.88
		1	25	20.42	20.83	20.84
		1	49	20.42	20.81	20.84
		25	0	19.44	19.79	19.80
		25	12	19.48	19.77	19.84
		25	25	19.48	19.80	19.83
		50	0	19.48	19.80	19.83
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	22.45	22.50	22.47
		1	37	22.49	22.52	22.50
		1	74	22.49	22.49	22.47
		36	0	21.73	21.60	21.51
		36	20	21.70	21.63	21.47
		36	39	21.72	21.63	21.46
		75	0	21.77	21.60	21.45
	16QAM	1	0	21.77	21.56	21.44
		1	37	21.79	21.59	21.43
		1	74	21.76	21.63	21.42
		36	0	20.90	20.70	20.66
		36	20	20.91	20.65	20.62
		36	39	20.89	20.66	20.66
		75	0	20.84	20.65	20.68
	64QAM	1	0	20.80	20.62	20.69
		1	37	20.75	20.57	20.68
		1	74	20.71	20.53	20.66
		36	0	19.67	19.43	19.69
		36	20	19.70	19.43	19.72
		36	39	19.72	19.42	19.69
		75	0	19.72	19.47	19.72
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	22.44	22.48	22.48
		1	50	22.46	22.52	22.49
		1	99	22.46	22.49	22.45
		50	0	21.46	21.55	21.47

		50	25	21.45	21.55	21.45
		50	50	21.41	21.52	21.47
		100	0	21.44	21.47	21.52
	16QAM	1	0	21.48	21.52	21.48
		1	50	21.53	21.50	21.43
		1	99	21.53	21.52	21.48
		50	0	20.69	20.70	20.52
		50	25	20.71	20.70	20.55
		50	50	20.70	20.75	20.56
		100	0	20.66	20.73	20.53
	64QAM	1	0	20.69	20.72	20.54
		1	50	20.68	20.75	20.50
		1	99	20.63	20.73	20.47
		50	0	19.60	19.73	19.46
		50	25	19.65	19.68	19.42
		50	50	19.62	19.70	19.44
		100	0	19.59	19.72	19.46

LTE Band12

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23007	230950	23173
1.4MHz	QPSK	1	0	22.93	22.87	22.82
		1	3	22.94	22.92	22.87
		1	5	22.93	22.91	22.85
		3	0	22.12	22.03	22.00
		3	1	22.13	22.08	21.99
		3	3	22.18	22.09	22.00
		6	0	22.16	22.12	22.00
	16QAM	1	0	22.19	22.09	22.01
		1	3	22.15	22.13	22.00
		1	5	22.11	22.18	21.97
		3	0	21.18	21.42	21.22
		3	1	21.15	21.41	21.25
		3	3	21.13	21.41	21.28
		6	0	21.12	21.44	21.31
	64QAM	1	0	21.13	21.47	21.29
		1	3	21.16	21.52	21.26
		1	5	21.17	21.50	21.27
		3	0	20.12	20.44	20.30
		3	1	20.16	20.47	20.29
		3	3	20.11	20.42	20.27
		6	0	20.12	20.47	20.27
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23015	23090	23165
3MHz	QPSK	1	0	22.94	22.90	22.90
		1	8	22.98	22.93	22.91
		1	14	22.96	22.90	22.89
		8	0	21.99	21.98	22.07
		8	4	21.98	21.99	22.06
		8	7	21.99	21.95	22.10
		15	0	22.04	21.95	22.13
	16QAM	1	0	22.06	22.00	22.13
		1	8	22.07	21.99	22.17
		1	14	22.06	21.96	22.16
		8	0	21.26	20.97	21.18
		8	4	21.27	20.91	21.13

		8	7	21.26	20.94	21.16
		15	0	21.21	20.91	21.20
	64QAM	1	0	21.21	20.87	21.23
		1	8	21.25	20.88	21.27
		1	14	21.22	20.92	21.30
		8	0	20.13	19.89	20.32
		8	4	20.17	19.88	20.28
		8	7	20.19	19.90	20.24
		15	0	20.19	19.87	20.24
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23025	23090	23155
5MHz	QPSK	1	0	22.90	22.94	22.88
		1	13	22.94	22.95	22.91
		1	24	22.90	22.93	22.89
		12	0	22.09	21.97	21.89
		12	6	22.10	21.95	21.92
		12	13	22.12	21.91	21.88
		25	0	22.16	21.95	21.90
	16QAM	1	0	22.13	21.94	21.94
		1	13	22.10	21.96	21.96
		1	24	22.05	21.92	21.94
		12	0	21.09	21.16	21.04
		12	6	21.04	21.19	21.00
		12	13	21.03	21.17	21.02
		25	0	21.07	21.17	21.07
	64QAM	1	0	21.07	21.14	21.04
		1	13	21.10	21.17	21.08
		1	24	21.13	21.20	21.07
		12	0	20.05	20.17	20.07
		12	6	20.06	20.14	20.06
		12	13	20.11	20.14	20.02
		25	0	20.13	20.16	20.02
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23050	23090	23130
10MHz	QPSK	1	0	22.91	22.93	22.91
		1	25	22.95	22.96	22.93
		1	49	22.94	22.94	22.89
		25	0	22.01	22.06	22.00

		25	12	22.02	22.08	22.04
		25	25	21.99	22.13	22.03
		50	0	22.04	22.10	22.03
	16QAM	1	0	22.04	22.11	22.06
		1	25	22.03	22.07	22.04
		1	49	22.04	22.05	22.02
		25	0	21.23	21.20	21.09
		25	12	21.21	21.17	21.15
		25	25	21.19	21.22	21.13
		50	0	21.17	21.18	21.12
	64QAM	1	0	21.19	21.17	21.14
		1	25	21.22	21.14	21.15
		1	49	21.17	21.10	21.12
		25	0	20.14	20.04	20.03
		25	12	20.17	20.07	20.08
		25	25	20.20	20.07	20.11
		50	0	20.16	20.05	20.14

LTE Band13

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23205	23230	23255
5MHz	QPSK	1	0	22.92	22.93	22.91
		1	13	22.95	22.95	22.93
		1	24	22.93	22.92	22.93
		12	0	22.00	22.02	21.99
		12	6	22.04	22.05	22.04
		12	13	22.03	22.01	22.06
		25	0	22.08	22.02	22.04
	16QAM	1	0	22.07	22.04	22.06
		1	13	22.05	21.99	22.06
		1	24	22.03	22.03	22.03
		12	0	21.22	21.10	21.21
		12	6	21.27	21.10	21.22
		12	13	21.30	21.13	21.20
		25	0	21.26	21.14	21.21
	64QAM	1	0	21.30	21.17	21.18
		1	13	21.31	21.12	21.22
		1	24	21.32	21.09	21.17
		12	0	20.34	20.09	20.12
		12	6	20.36	20.07	20.12
		12	13	20.37	20.12	20.16
		25	0	20.35	20.10	20.16
Bandwidth	Modulation	RB size	RB offset	Channel		
				23230		
10MHz	QPSK	1	0	22.93		
		1	25	22.96		
		1	49	22.95		
		25	0	21.98		
		25	12	21.93		
		25	25	21.90		
		50	0	21.92		
	16QAM	1	0	21.89		
		1	25	21.93		
		1	49	21.94		
		25	0	21.13		
		25	12	21.14		

		25	25	21.17
		50	0	21.17
	64QAM	1	0	21.13
		1	25	21.17
		1	49	21.17
		25	0	20.13
		25	12	20.17
		25	25	20.13
		50	0	20.10

LTE Band14

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23305	23330	23355
5MHz	QPSK	1	0	23.11	23.12	23.09
		1	13	23.14	23.13	23.13
		1	24	23.10	23.12	23.12
		12	0	22.16	22.18	22.25
		12	6	22.19	22.22	22.24
		12	13	22.23	22.21	22.24
		25	0	22.26	22.17	22.21
	16QAM	1	0	22.30	22.22	22.21
		1	13	22.28	22.23	22.26
		1	24	22.33	22.28	22.28
		12	0	21.47	21.43	21.43
		12	6	21.40	21.38	21.46
		12	13	21.44	21.35	21.44
		25	0	21.44	21.39	21.44
	64QAM	1	0	21.45	21.44	21.42
		1	13	21.40	21.42	21.46
		1	24	21.45	21.42	21.47
		12	0	20.43	20.41	20.46
		12	6	20.46	20.44	20.47
		12	13	20.43	20.46	20.47
		25	0	20.47	20.43	20.50
Bandwidth	Modulation	RB size	RB offset	Channel		
				23330		
10MHz	QPSK	1	0	23.15		
		1	25	23.17		
		1	49	23.14		
		25	0	22.26		
		25	12	22.26		
		25	25	22.24		
		50	0	22.26		
	16QAM	1	0	22.27		
		1	25	22.23		
		1	49	22.24		
		25	0	21.30		
		25	12	21.30		

		25	25	21.30
		50	0	21.30
	64QAM	1	0	21.34
		1	25	21.38
		1	49	21.34
		25	0	20.30
		25	12	20.32
		25	25	20.27
		50	0	20.26

LTE Band17

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23755	23790	23825
5MHz	QPSK	1	0	22.76	22.78	22.71
		1	13	22.78	22.81	22.73
		1	24	22.77	22.79	22.69
		12	0	21.81	21.82	21.93
		12	6	21.84	21.85	21.96
		12	13	21.81	21.83	21.92
		25	0	21.78	21.87	21.94
	16QAM	1	0	21.75	21.89	21.98
		1	13	21.74	21.87	21.96
		1	24	21.70	21.87	22.01
		12	0	20.87	20.94	21.04
		12	6	20.87	20.94	21.09
		12	13	20.84	20.98	21.06
		25	0	20.81	21.00	21.10
	64QAM	1	0	20.86	21.02	21.12
		1	13	20.81	20.97	21.15
		1	24	20.84	20.93	21.15
		12	0	19.83	19.90	20.12
		12	6	19.87	19.86	20.16
		12	13	19.85	19.85	20.16
		25	0	19.89	19.88	20.21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23780	23790	23800
10MHz	QPSK	1	0	22.81	22.79	22.72
		1	25	22.83	22.84	22.77
		1	49	22.82	22.79	22.76
		25	0	22.04	22.01	21.77
		25	12	22.02	22.04	21.80
		25	25	22.04	22.02	21.78
		50	0	22.05	22.04	21.79
	16QAM	1	0	22.06	22.07	21.76
		1	25	22.04	22.03	21.76
		1	49	22.08	22.03	21.72
		25	0	21.23	21.14	20.76
		25	12	21.24	21.09	20.77

		25	25	21.29	21.08	20.73
		50	0	21.29	21.10	20.69
	64QAM	1	0	21.27	21.12	20.72
		1	25	21.30	21.10	20.68
		1	49	21.34	21.06	20.67
		25	0	20.35	19.96	19.66
		25	12	20.33	19.96	19.66
		25	25	20.30	20.00	19.63
		50	0	20.28	20.05	19.67

LTE Band25

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26047	26365	26683
1.4MHz	QPSK	1	0	22.07	22.17	22.24
		1	3	22.11	22.19	22.24
		1	5	22.08	22.17	22.22
		3	0	21.19	21.28	21.45
		3	1	21.18	21.26	21.49
		3	3	21.17	21.25	21.46
		6	0	21.19	21.20	21.49
	16QAM	1	0	21.14	21.16	21.50
		1	3	21.10	21.13	21.47
		1	5	21.11	21.10	21.51
		3	0	20.35	20.21	20.63
		3	1	20.41	20.22	20.65
		3	3	20.44	20.24	20.65
		6	0	20.40	20.24	20.62
	64QAM	1	0	20.41	20.21	20.58
		1	3	20.36	20.26	20.55
		1	5	20.34	20.30	20.51
		3	0	19.31	19.27	19.42
		3	1	19.31	19.31	19.43
		3	3	19.30	19.32	19.45
		6	0	19.29	19.28	19.41
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26055	26365	26675
3MHz	QPSK	1	0	22.12	22.22	22.25
		1	8	22.14	22.24	22.28
		1	14	22.13	22.21	22.25
		8	0	21.33	21.42	21.29
		8	4	21.36	21.45	21.26
		8	7	21.38	21.47	21.27
		15	0	21.37	21.49	21.29
	16QAM	1	0	21.42	21.45	21.27
		1	8	21.44	21.45	21.26
		1	14	21.48	21.50	21.23
		8	0	20.60	20.59	20.24
		8	4	20.66	20.60	20.24

		8	7	20.69	20.60	20.22
		15	0	20.64	20.65	20.22
	64QAM	1	0	20.61	20.64	20.20
		1	8	20.59	20.69	20.21
		1	14	20.59	20.74	20.25
		8	0	19.50	19.76	19.26
		8	4	19.46	19.73	19.26
		8	7	19.46	19.74	19.27
		15	0	19.49	19.72	19.27
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26065	26365	26665
5MHz	QPSK	1	0	22.13	22.25	22.28
		1	13	22.17	22.27	22.30
		1	24	22.14	22.27	22.28
		12	0	21.32	21.29	21.45
		12	6	21.36	21.31	21.45
		12	13	21.35	21.30	21.46
		25	0	21.34	21.29	21.48
	16QAM	1	0	21.34	21.26	21.46
		1	13	21.34	21.27	21.44
		1	24	21.30	21.22	21.44
		12	0	20.53	20.26	20.63
		12	6	20.55	20.23	20.60
		12	13	20.52	20.26	20.59
		25	0	20.48	20.26	20.58
	64QAM	1	0	20.49	20.29	20.59
		1	13	20.50	20.25	20.63
		1	24	20.46	20.26	20.63
		12	0	19.41	19.23	19.61
		12	6	19.39	19.26	19.61
		12	13	19.39	19.24	19.60
		25	0	19.41	19.26	19.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26090	26365	26640
10MHz	QPSK	1	0	22.16	22.19	22.28
		1	25	22.19	22.23	22.29
		1	49	22.19	22.21	22.25
		25	0	21.24	21.34	21.33

		25	12	21.25	21.34	21.35
		25	25	21.25	21.31	21.30
		50	0	21.22	21.26	21.33
	16QAM	1	0	21.23	21.31	21.34
		1	25	21.19	21.34	21.35
		1	49	21.20	21.37	21.34
		25	0	20.41	20.62	20.34
		25	12	20.37	20.60	20.33
		25	25	20.38	20.59	20.28
		50	0	20.37	20.59	20.25
		1	0	20.41	20.54	20.25
	64QAM	1	25	20.45	20.49	20.25
		1	49	20.43	20.46	20.29
		25	0	19.36	19.47	19.28
		25	12	19.32	19.49	19.29
		25	25	19.36	19.49	19.25
		50	0	19.32	19.45	19.21
		1	0	20.41	20.54	20.25
		1	25	20.45	20.49	20.25
		1	49	20.43	20.46	20.29
		25	0	19.36	19.47	19.28
		25	12	19.32	19.49	19.29
		25	25	19.36	19.49	19.25
		50	0	19.32	19.45	19.21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26115	26365	26615
15MHz	QPSK	1	0	22.16	22.27	22.24
		1	37	22.21	22.28	22.25
		1	74	22.19	22.27	22.21
		36	0	21.37	21.44	21.35
		36	20	21.33	21.41	21.37
		36	39	21.31	21.46	21.33
		75	0	21.34	21.46	21.34
	16QAM	1	0	21.29	21.46	21.33
		1	37	21.28	21.44	21.34
		1	74	21.27	21.44	21.32
		36	0	20.34	20.47	20.40
		36	20	20.30	20.47	20.43
		36	39	20.29	20.50	20.46
		75	0	20.31	20.47	20.51
	64QAM	1	0	20.28	20.51	20.54
		1	37	20.31	20.54	20.56
		1	74	20.35	20.53	20.55
		36	0	19.28	19.50	19.57
		36	20	19.24	19.47	19.57

		36	39	19.22	19.43	19.59
		75	0	19.20	19.41	19.57
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26140	26365	26590
20MHz	QPSK	1	0	22.21	22.27	22.22
		1	50	22.23	22.29	22.24
		1	99	22.20	22.28	22.21
		50	0	21.45	21.33	21.27
		50	25	21.45	21.30	21.28
		50	50	21.48	21.29	21.30
		100	0	21.49	21.28	21.33
	16QAM	1	0	21.48	21.26	21.37
		1	50	21.51	21.28	21.39
		1	99	21.48	21.24	21.36
		50	0	20.68	20.39	20.54
		50	25	20.62	20.36	20.54
		50	50	20.60	20.31	20.53
		100	0	20.57	20.34	20.54
	64QAM	1	0	20.61	20.36	20.54
		1	50	20.58	20.37	20.53
		1	99	20.60	20.39	20.48
		50	0	19.52	19.31	19.39
		50	25	19.56	19.33	19.41
		50	50	19.54	19.37	19.42
		100	0	19.53	19.40	19.46

LTE Band26(814Mhz-824Mhz)

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26697	26740	26783
1.4MHz	QPSK	1	0	22.51	22.43	22.46
		1	13	22.51	22.46	22.51
		1	24	22.47	22.42	22.50
		12	0	21.55	21.42	21.58
		12	6	21.53	21.40	21.58
		12	13	21.52	21.45	21.57
		25	0	21.54	21.49	21.55
	16QAM	1	0	21.56	21.48	21.59
		1	13	21.60	21.44	21.62
		1	24	21.63	21.45	21.58
		12	0	20.78	20.47	20.75
		12	6	20.78	20.50	20.70
		12	13	20.74	20.46	20.68
		25	0	20.72	20.45	20.70
	64QAM	1	0	20.67	20.48	20.73
		1	13	20.68	20.51	20.77
		1	24	20.72	20.55	20.74
		12	0	19.67	19.48	19.71
		12	6	19.63	19.45	19.69
		12	13	19.60	19.45	19.72
		25	0	19.61	19.45	19.71
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26705	26740	26775
3MHz	QPSK	1	0	22.60	22.52	22.50
		1	13	22.60	22.55	22.53
		1	24	22.59	22.51	22.52
		12	0	21.73	21.53	21.62
		12	6	21.74	21.50	21.64
		12	13	21.70	21.53	21.60
		25	0	21.69	21.51	21.61
	16QAM	1	0	21.66	21.51	21.60
		1	13	21.62	21.47	21.58
		1	24	21.62	21.50	21.57
		12	0	20.83	20.61	20.62
		12	6	20.82	20.55	20.60

		12	13	20.79	20.51	20.56
		25	0	20.83	20.51	20.58
	64QAM	1	0	20.85	20.52	20.56
		1	13	20.85	20.54	20.53
		1	24	20.87	20.59	20.48
		12	0	19.84	19.53	19.39
		12	6	19.82	19.53	19.39
		12	13	19.81	19.54	19.39
		25	0	19.85	19.53	19.35
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26715	26740	26765
5MHz	QPSK	1	0	22.47	22.50	22.49
		1	13	22.50	22.54	22.52
		1	24	22.47	22.50	22.52
		12	0	21.72	21.55	21.56
		12	6	21.69	21.56	21.56
		12	13	21.70	21.56	21.55
		25	0	21.72	21.55	21.58
	16QAM	1	0	21.70	21.54	21.55
		1	13	21.68	21.52	21.57
		1	24	21.67	21.56	21.58
		12	0	20.83	20.81	20.61
		12	6	20.87	20.83	20.63
		12	13	20.88	20.87	20.65
		25	0	20.84	20.87	20.61
	64QAM	1	0	20.89	20.82	20.57
		1	13	20.84	20.86	20.53
		1	24	20.85	20.84	20.52
		12	0	19.84	19.75	19.43
		12	6	19.80	19.80	19.47
		12	13	19.81	19.80	19.51
		25	0	19.84	19.75	19.53
Bandwidth	Modulation	RB size	RB offset	Channel		
				26740		
10MHz	QPSK	1	0	22.54		
		1	25	22.75		
		1	49	22.52		
		25	0	21.65		

		25	12	21.68
		25	25	21.65
		50	0	21.63
	16QAM	1	0	21.60
		1	25	21.65
		1	49	21.69
		25	0	20.77
		25	12	20.78
		25	25	20.77
		50	0	20.78
	64QAM	1	0	20.74
		1	25	20.72
		1	49	20.77
		25	0	19.70
		25	12	19.72
		25	25	19.69
		50	0	19.73

LTE Band26(824Mhz-849Mhz)

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26797	26915	27033
1.4MHz	QPSK	1	0	22.48	22.44	22.39
		1	13	22.50	22.46	22.42
		1	24	22.46	22.42	22.39
		12	0	21.48	21.52	21.43
		12	6	21.51	21.54	21.45
		12	13	21.47	21.56	21.47
		25	0	21.44	21.60	21.48
	16QAM	1	0	21.43	21.60	21.50
		1	13	21.44	21.60	21.52
		1	24	21.46	21.63	21.49
		12	0	20.70	20.69	20.73
		12	6	20.75	20.74	20.70
		12	13	20.79	20.70	20.75
		25	0	20.81	20.65	20.71
	64QAM	1	0	20.85	20.63	20.66
		1	13	20.80	20.62	20.61
		1	24	20.83	20.60	20.57
		12	0	19.81	19.56	19.52
		12	6	19.76	19.55	19.54
		12	13	19.77	19.59	19.53
		25	0	19.81	19.62	19.51
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26805	26915	27025
3MHz	QPSK	1	0	22.48	22.57	22.46
		1	13	22.50	22.58	22.49
		1	24	22.45	22.58	22.49
		12	0	21.59	21.69	21.73
		12	6	21.59	21.65	21.72
		12	13	21.58	21.66	21.68
		25	0	21.57	21.66	21.65
	16QAM	1	0	21.54	21.67	21.64
		1	13	21.56	21.69	21.65
		1	24	21.52	21.71	21.67
		12	0	20.58	20.73	20.78
		12	6	20.60	20.77	20.84

		12	13	20.56	20.78	20.82
		25	0	20.51	20.78	20.86
	64QAM	1	0	20.55	20.77	20.83
		1	13	20.58	20.73	20.85
		1	24	20.55	20.70	20.81
		12	0	19.52	19.63	19.80
		12	6	19.48	19.61	19.76
		12	13	19.47	19.57	19.76
		25	0	19.44	19.61	19.78
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26815	26915	27015
5MHz	QPSK	1	0	22.55	22.51	22.35
		1	13	22.56	22.55	22.39
		1	24	22.52	22.50	22.38
		12	0	21.73	21.54	21.41
		12	6	21.75	21.50	21.40
		12	13	21.76	21.46	21.45
		25	0	21.80	21.46	21.46
	16QAM	1	0	21.82	21.50	21.45
		1	13	21.80	21.48	21.50
		1	24	21.83	21.52	21.51
		12	0	20.96	20.74	20.71
		12	6	20.92	20.71	20.72
		12	13	20.88	20.74	20.76
		25	0	20.92	20.71	20.71
	64QAM	1	0	20.92	20.66	20.70
		1	13	20.90	20.66	20.69
		1	24	20.90	20.67	20.73
		12	0	19.92	19.70	19.70
		12	6	19.95	19.66	19.73
		12	13	19.99	19.69	19.76
		25	0	19.98	19.65	19.73
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26840	26915	26990
10MHz	QPSK	1	0	22.52	22.54	22.44
		1	25	22.54	22.54	22.44
		1	49	22.51	22.52	22.42
		25	0	21.74	21.59	21.65

		25	12	21.69	21.57	21.67
		25	25	21.72	21.58	21.70
		50	0	21.70	21.58	21.66
	16QAM	1	0	21.68	21.60	21.64
		1	25	21.71	21.62	21.62
		1	49	21.71	21.64	21.57
		25	0	20.79	20.85	20.71
		25	12	20.77	20.90	20.77
		25	25	20.79	20.94	20.74
		50	0	20.77	20.98	20.70
		1	0	20.75	20.97	20.75
	64QAM	1	25	20.78	20.94	20.76
		1	49	20.82	20.96	20.75
		25	0	19.75	19.89	19.75
		25	12	19.79	19.91	19.76
		25	25	19.78	19.91	19.76
		50	0	19.76	19.94	19.76
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26865	26915	26965
15MHz	QPSK	1	0	22.49	22.52	22.47
		1	37	22.56	22.57	22.49
		1	74	22.51	22.54	22.48
		36	0	21.72	21.64	21.53
		36	20	21.69	21.67	21.53
		36	39	21.69	21.68	21.55
		75	0	21.73	21.65	21.57
	16QAM	1	0	21.70	21.69	21.59
		1	37	21.68	21.72	21.60
		1	74	21.66	21.73	21.64
		36	0	20.90	20.74	20.66
		36	20	20.94	20.74	20.69
		36	39	20.98	20.70	20.67
		75	0	21.01	20.68	20.67
	64QAM	1	0	21.01	20.64	20.71
		1	37	21.05	20.69	20.68
		1	74	21.07	20.68	20.69
		36	0	20.05	19.61	19.64
		36	20	20.02	19.57	19.67

		36	39	19.98	19.58	19.65
		75	0	20.02	19.53	19.68

LTE Band30

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				27685	27710	27735
5MHz	QPSK	1	0	22.33	22.22	22.28
		1	13	22.38	22.27	22.33
		1	24	22.33	22.27	22.29
		12	0	21.46	21.39	21.54
		12	6	21.49	21.35	21.57
		12	13	21.49	21.35	21.62
		25	0	21.54	21.38	21.63
	16QAM	1	0	21.49	21.38	21.67
		1	13	21.45	21.33	21.64
		1	24	21.50	21.31	21.64
		12	0	20.50	20.37	20.73
		12	6	20.46	20.41	20.72
		12	13	20.46	20.43	20.77
		25	0	20.49	20.48	20.81
	64QAM	1	0	20.50	20.46	20.84
		1	13	20.47	20.50	20.89
		1	24	20.42	20.51	20.84
		12	0	19.45	19.49	19.80
		12	6	19.49	19.47	19.82
		12	13	19.48	19.51	19.85
		25	0	19.49	19.49	19.84
Bandwidth	Modulation	RB size	RB offset	Channel		
				27710		
10MHz	QPSK	1	0	22.30		
		1	25	22.45		
		1	49	22.34		
		25	0	21.47		
		25	12	21.44		
		25	25	21.40		
		50	0	21.35		
	16QAM	1	0	21.37		
		1	25	21.39		
		1	49	21.38		
		25	0	20.53		
		25	12	20.52		

		25	25	20.56
		50	0	20.55
	64QAM	1	0	20.55
		1	25	20.50
		1	49	20.49
		25	0	19.39
		25	12	19.36
		25	25	19.32
		50	0	19.32

LTE Band38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	22.81	22.87	22.79
		1	13	22.82	22.88	22.82
		1	24	22.78	22.88	22.81
		12	0	21.89	21.94	21.92
		12	6	21.87	21.92	21.94
		12	13	21.90	21.95	21.94
		25	0	21.88	21.92	21.93
	16QAM	1	0	21.86	21.88	21.93
		1	13	21.86	21.90	21.93
		1	24	21.84	21.93	21.90
		12	0	20.92	21.06	20.96
		12	6	20.92	21.01	20.90
		12	13	20.96	20.98	20.90
		25	0	20.94	21.02	20.91
	64QAM	1	0	20.97	21.05	20.91
		1	13	20.94	21.01	20.88
		1	24	20.96	21.02	20.85
		12	0	19.92	19.93	19.81
		12	6	19.88	19.93	19.78
		12	13	19.86	19.97	19.78
		25	0	19.90	19.97	19.76
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	22.84	22.88	22.83
		1	25	22.89	22.89	22.83
		1	49	22.86	22.88	22.83
		25	0	22.02	22.10	22.04
		25	12	22.04	22.10	22.08
		25	25	22.05	22.06	22.06
		50	0	22.02	22.08	22.04
	16QAM	1	0	22.06	22.05	22.06
		1	25	22.09	22.01	22.05
		1	49	22.07	22.01	22.07
		25	0	21.18	21.07	21.29
		25	12	21.23	21.01	21.32

		25	25	21.27	21.03	21.28
		50	0	21.28	21.00	21.31
	64QAM	1	0	21.28	20.96	21.34
		1	25	21.27	20.93	21.36
		1	49	21.26	20.95	21.36
		25	0	20.20	19.89	20.38
		25	12	20.24	19.91	20.43
		25	25	20.21	19.87	20.43
		50	0	20.23	19.89	20.45
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	22.79	22.87	22.84
		1	37	22.84	22.90	22.85
		1	74	22.80	22.87	22.85
		36	0	21.99	22.12	22.05
		36	20	21.99	22.11	22.01
		36	39	22.02	22.10	21.99
		75	0	22.00	22.07	22.01
	16QAM	1	0	21.95	22.12	22.00
		1	37	21.95	22.11	22.02
		1	74	21.92	22.07	22.05
		36	0	21.08	21.15	21.26
		36	20	21.02	21.08	21.27
		36	39	21.07	21.10	21.28
		75	0	21.05	21.07	21.25
	64QAM	1	0	21.09	21.09	21.28
		1	37	21.10	21.11	21.25
		1	74	21.10	21.15	21.26
		36	0	20.07	20.13	20.28
		36	20	20.09	20.13	20.31
		36	39	20.11	20.18	20.35
		75	0	20.15	20.18	20.39
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	22.82	22.90	22.81
		1	50	22.86	22.92	22.86
		1	99	22.86	22.90	22.81
		50	0	21.91	22.12	21.89

		50	25	21.94	22.12	21.88
		50	50	21.95	22.08	21.88
		100	0	21.92	22.05	21.92
	16QAM	1	0	21.93	22.08	21.91
		1	50	21.93	22.13	21.92
		1	99	21.88	22.17	21.97
		50	0	20.94	21.39	21.10
		50	25	20.88	21.43	21.07
		50	50	20.89	21.43	21.04
		100	0	20.90	21.47	21.04
	64QAM	1	0	20.89	21.43	21.05
		1	50	20.93	21.40	21.00
		1	99	20.96	21.38	21.03
		50	0	19.91	20.34	20.03
		50	25	19.93	20.31	20.05
		50	50	19.90	20.30	20.06
		100	0	19.88	20.27	20.11

LTE Band40(2305Mhz-2315Mhz)

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				38725	38750	38775
5MHz	QPSK	1	0	22.42	22.43	22.35
		1	13	22.44	22.44	22.39
		1	24	22.41	22.44	22.38
		12	0	21.46	21.48	21.55
		12	6	21.41	21.46	21.56
		12	13	21.46	21.49	21.59
		25	0	21.49	21.45	21.59
	16QAM	1	0	21.49	21.40	21.57
		1	13	21.44	21.37	21.60
		1	24	21.47	21.35	21.64
		12	0	20.53	20.50	20.67
		12	6	20.57	20.49	20.73
		12	13	20.52	20.53	20.75
		25	0	20.52	20.51	20.71
	64QAM	1	0	20.47	20.54	20.75
		1	13	20.52	20.55	20.76
		1	24	20.48	20.50	20.72
		12	0	19.44	19.44	19.68
		12	6	19.49	19.42	19.68
		12	13	19.44	19.39	19.63
		25	0	19.41	19.36	19.61
Bandwidth	Modulation	RB size	RB offset	Channel		
				38750		
10MHz	QPSK	1	0	22.48		
		1	25	22.55		
		1	49	22.48		
		25	0	21.71		
		25	12	21.74		
		25	25	21.75		
		50	0	21.78		
	16QAM	1	0	21.79		
		1	25	21.75		
		1	49	21.76		
		25	0	20.86		
		25	12	20.80		

		25	25	20.81
		50	0	20.82
	64QAM	1	0	20.80
		1	25	20.82
		1	49	20.80
		25	0	19.76
		25	12	19.80
		25	25	19.80
		50	0	19.84

LTE Band40(2350Mhz-2360Mhz)

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39175	39200	39225
5MHz	QPSK	1	0	22.20	22.14	22.13
		1	13	22.23	22.18	22.18
		1	24	22.20	22.14	22.17
		12	0	21.26	21.36	21.36
		12	6	21.31	21.33	21.33
		12	13	21.29	21.38	21.34
		25	0	21.27	21.37	21.38
	16QAM	1	0	21.29	21.32	21.39
		1	13	21.30	21.31	21.39
		1	24	21.35	21.29	21.34
		12	0	20.43	20.54	20.37
		12	6	20.37	20.50	20.41
		12	13	20.40	20.45	20.43
		25	0	20.36	20.45	20.41
	64QAM	1	0	20.39	20.43	20.38
		1	13	20.39	20.45	20.34
		1	24	20.36	20.47	20.37
		12	0	19.36	19.42	19.29
		12	6	19.33	19.38	19.24
		12	13	19.35	19.33	19.23
		25	0	19.37	19.38	19.20
Bandwidth	Modulation	RB size	RB offset	Channel		
				39200		
10MHz	QPSK	1	0	22.23		
		1	25	22.32		
		1	49	22.22		
		25	0	21.33		
		25	12	21.32		
		25	25	21.27		
		50	0	21.30		
	16QAM	1	0	21.29		
		1	25	21.31		
		1	49	21.26		
		25	0	20.45		
		25	12	20.46		

		25	25	20.48
		50	0	20.50
	64QAM	1	0	20.48
		1	25	20.43
		1	49	20.42
		25	0	19.36
		25	12	19.32
		25	25	19.31
		50	0	19.29

LTE Band41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39675	40620	41565
5MHz	QPSK	1	0	22.83	22.78	22.76
		1	13	22.84	22.81	22.78
		1	24	22.82	22.77	22.76
		12	0	22.07	21.90	21.81
		12	6	22.10	21.87	21.78
		12	13	22.07	21.85	21.78
		25	0	22.04	21.81	21.80
	16QAM	1	0	22.02	21.80	21.83
		1	13	22.06	21.79	21.78
		1	24	22.10	21.77	21.79
		12	0	21.19	21.02	20.94
		12	6	21.23	20.96	20.98
		12	13	21.21	20.94	20.94
		25	0	21.24	20.96	20.94
	64QAM	1	0	21.25	21.01	20.95
		1	13	21.27	21.00	20.90
		1	24	21.29	20.98	20.86
		12	0	20.25	19.90	19.78
		12	6	20.21	19.89	19.79
		12	13	20.21	19.91	19.84
		25	0	20.25	19.94	19.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39700	40620	41540
10MHz	QPSK	1	0	22.84	22.79	22.75
		1	25	22.84	22.81	22.79
		1	49	22.79	22.80	22.77
		25	0	21.86	21.97	21.96
		25	12	21.84	22.02	21.99
		25	25	21.86	21.97	22.04
		50	0	21.84	21.93	22.08
	16QAM	1	0	21.79	21.95	22.06
		1	25	21.77	21.98	22.08
		1	49	21.80	21.96	22.06
		25	0	21.04	21.01	21.10
		25	12	21.02	21.02	21.06

		25	25	21.00	21.05	21.05
		50	0	20.96	21.03	21.08
	64QAM	1	0	20.95	21.04	21.11
		1	25	20.96	21.01	21.09
		1	49	20.91	21.01	21.10
		25	0	19.86	19.93	20.00
		25	12	19.85	19.93	19.99
		25	25	19.81	19.88	20.01
		50	0	19.79	19.86	19.99
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39725	40620	41515
15MHz	QPSK	1	0	22.74	22.75	22.77
		1	37	22.79	22.80	22.82
		1	74	22.75	22.78	22.78
		36	0	21.75	21.97	21.90
		36	20	21.77	21.94	21.88
		36	39	21.81	21.92	21.90
		75	0	21.80	21.88	21.93
	16QAM	1	0	21.80	21.86	21.91
		1	37	21.81	21.84	21.95
		1	74	21.80	21.86	21.93
		36	0	20.82	20.89	21.15
		36	20	20.78	20.84	21.08
		36	39	20.75	20.89	21.06
		75	0	20.74	20.85	21.10
	64QAM	1	0	20.78	20.83	21.06
		1	37	20.75	20.81	21.03
		1	74	20.79	20.81	21.01
		36	0	19.81	19.77	19.99
		36	20	19.79	19.79	19.96
		36	39	19.75	19.82	20.01
		75	0	19.79	19.80	19.98
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39750	40620	41490
20MHz	QPSK	1	0	22.83	22.81	22.78
		1	50	22.83	22.84	22.83
		1	99	22.80	22.83	22.82
		50	0	21.92	21.92	21.84

		50	25	21.89	21.93	21.82
		50	50	21.88	21.93	21.81
		100	0	21.92	21.94	21.77
	16QAM	1	0	21.93	21.97	21.79
		1	50	21.95	21.96	21.80
		1	99	21.94	21.91	21.83
		50	0	21.12	21.12	21.00
		50	25	21.10	21.08	20.97
		50	50	21.11	21.11	20.92
		100	0	21.14	21.11	20.90
	64QAM	1	0	21.11	21.13	20.95
		1	50	21.15	21.09	20.92
		1	99	21.13	21.10	20.96
		50	0	20.08	20.07	19.97
		50	25	20.03	20.11	19.95
		50	50	20.04	20.13	19.96
		100	0	20.05	20.12	19.98

LTE Band66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131979	132322	132665
1.4MHz	QPSK	1	0	22.27	22.30	22.24
		1	3	22.30	22.32	22.27
		1	5	22.26	22.28	22.23
		3	0	21.48	21.34	21.41
		3	1	21.44	21.31	21.37
		3	3	21.42	21.29	21.37
		6	0	21.43	21.33	21.35
	16QAM	1	0	21.40	21.31	21.39
		1	3	21.39	21.29	21.37
		1	5	21.44	21.26	21.34
		3	0	20.69	20.34	20.53
		3	1	20.66	20.29	20.57
		3	3	20.63	20.24	20.61
		6	0	20.64	20.21	20.60
	64QAM	1	0	20.67	20.21	20.62
		1	3	20.69	20.18	20.60
		1	5	20.69	20.15	20.59
		3	0	19.62	19.10	19.61
		3	1	19.63	19.11	19.56
		3	3	19.58	19.11	19.58
		6	0	19.54	19.08	19.62
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131987	132322	132657
3MHz	QPSK	1	0	22.38	22.27	22.22
		1	8	22.38	22.32	22.25
		1	14	22.34	22.28	22.23
		8	0	21.53	21.51	21.28
		8	4	21.50	21.50	21.26
		8	7	21.46	21.48	21.31
		15	0	21.47	21.52	21.33
	16QAM	1	0	21.45	21.48	21.34
		1	8	21.43	21.45	21.35
		1	14	21.45	21.46	21.37
		8	0	20.58	20.69	20.59
		8	4	20.55	20.75	20.60

		8	7	20.53	20.76	20.57
		15	0	20.50	20.80	20.55
	64QAM	1	0	20.52	20.76	20.54
		1	8	20.49	20.75	20.50
		1	14	20.44	20.80	20.48
		8	0	19.38	19.79	19.50
		8	4	19.37	19.74	19.48
		8	7	19.40	19.74	19.52
		15	0	19.35	19.76	19.48
Bandwidth	Modulation	RB size	RB offset	Channel 131997	Channel 132322	Channel 132647
5MHz	QPSK	1	0	22.32	22.33	22.23
		1	13	22.36	22.35	22.28
		1	24	22.36	22.31	22.26
		12	0	21.54	21.44	21.48
		12	6	21.55	21.45	21.47
		12	13	21.59	21.42	21.48
		25	0	21.54	21.47	21.53
	16QAM	1	0	21.55	21.47	21.57
		1	13	21.58	21.49	21.60
		1	24	21.54	21.44	21.62
		12	0	20.55	20.69	20.80
		12	6	20.48	20.70	20.79
		12	13	20.53	20.72	20.83
		25	0	20.55	20.72	20.86
	64QAM	1	0	20.51	20.76	20.81
		1	13	20.48	20.73	20.83
		1	24	20.50	20.73	20.85
		12	0	19.50	19.71	19.83
		12	6	19.53	19.66	19.80
		12	13	19.57	19.62	19.84
		25	0	19.55	19.57	19.84
Bandwidth	Modulation	RB size	RB offset	Channel 132022	Channel 132322	Channel 132622
10MHz	QPSK	1	0	22.28	22.31	22.28
		1	25	22.33	22.34	22.29
		1	49	22.32	22.32	22.26
		25	0	21.51	21.34	21.44

		25	12	21.48	21.38	21.47
		25	25	21.48	21.39	21.48
		50	0	21.45	21.35	21.52
	16QAM	1	0	21.47	21.39	21.55
		1	25	21.48	21.39	21.54
		1	49	21.50	21.42	21.52
		25	0	20.65	20.65	20.52
		25	12	20.63	20.69	20.56
		25	25	20.64	20.66	20.60
		50	0	20.64	20.67	20.59
		1	0	20.63	20.64	20.62
	64QAM	1	25	20.59	20.61	20.61
		1	49	20.58	20.63	20.64
		25	0	19.48	19.56	19.58
		25	12	19.51	19.54	19.62
		25	25	19.49	19.59	19.58
		50	0	19.45	19.61	19.54
		1	0	22.29	22.31	22.25
		1	37	22.34	22.35	22.29
		1	74	22.30	22.30	22.25
	QPSK	36	0	21.46	21.53	21.41
		36	20	21.45	21.56	21.44
		36	39	21.50	21.54	21.42
		75	0	21.51	21.51	21.45
	16QAM	1	0	21.54	21.53	21.41
		1	37	21.51	21.57	21.42
		1	74	21.52	21.55	21.40
		36	0	20.74	20.81	20.56
		36	20	20.76	20.85	20.52
		36	39	20.74	20.83	20.52
		75	0	20.76	20.85	20.48
	64QAM	1	0	20.73	20.86	20.45
		1	37	20.74	20.89	20.42
		1	74	20.77	20.86	20.45
		36	0	19.78	19.85	19.47
		36	20	19.78	19.84	19.47
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132047	132322	132597

		36	39	19.74	19.80	19.48
		75	0	19.72	19.82	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132072	132322	132572
20MHz	QPSK	1	0	22.34	22.31	22.27
		1	50	22.35	22.36	22.31
		1	99	22.34	22.36	22.27
		50	0	21.52	21.41	21.37
		50	25	21.50	21.43	21.39
		50	50	21.50	21.45	21.36
		100	0	21.47	21.47	21.35
	16QAM	1	0	21.47	21.49	21.35
		1	50	21.47	21.47	21.35
		1	99	21.50	21.49	21.33
		50	0	20.75	20.53	20.45
		50	25	20.78	20.47	20.41
		50	50	20.80	20.51	20.36
		100	0	20.82	20.48	20.39
	64QAM	1	0	20.81	20.52	20.36
		1	50	20.83	20.52	20.40
		1	99	20.81	20.50	20.35
		50	0	19.82	19.47	19.31
		50	25	19.86	19.48	19.34
		50	50	19.85	19.48	19.34
		100	0	19.82	19.46	19.38

LTE Band71

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133147	133297	133447
5MHz	QPSK	1	0	23.67	23.85	23.65
		1	13	23.71	23.88	23.66
		1	24	23.71	23.84	23.64
		12	0	22.87	23.03	22.71
		12	6	22.82	23.03	22.67
		12	13	22.82	23.03	22.63
		25	0	22.85	23.04	22.60
	16QAM	1	0	22.85	23.03	22.57
		1	13	22.85	22.98	22.58
		1	24	22.85	22.99	22.55
		12	0	22.07	22.08	21.78
		12	6	22.10	22.08	21.76
		12	13	22.13	22.08	21.81
		25	0	22.15	22.12	21.85
	64QAM	1	0	22.16	22.16	21.88
		1	13	22.19	22.19	21.92
		1	24	22.22	22.24	21.94
		12	0	21.13	21.17	20.84
		12	6	21.18	21.16	20.88
		12	13	21.19	21.19	20.87
		25	0	21.20	21.14	20.82
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133172	133297	133422
10MHz	QPSK	1	0	23.77	23.84	23.70
		1	25	23.77	23.88	23.71
		1	49	23.75	23.85	23.70
		25	0	22.75	22.96	22.92
		25	12	22.72	23.00	22.93
		25	25	22.71	22.99	22.95
		50	0	22.70	23.00	22.94
	16QAM	1	0	22.69	23.03	22.91
		1	25	22.64	22.98	22.89
		1	49	22.68	23.03	22.86
		25	0	21.70	22.09	21.93
		25	12	21.73	22.09	21.95

		25	25	21.68	22.09	21.98
		50	0	21.72	22.08	21.99
	64QAM	1	0	21.72	22.12	22.02
		1	25	21.72	22.08	21.98
		1	49	21.77	22.07	22.01
		25	0	20.73	21.06	20.92
		25	12	20.74	21.01	20.96
		25	25	20.79	21.01	20.92
		50	0	20.83	20.99	20.89
Bandwidth	Modulation	RB size	RB offset	Channel 133197	Channel 133297	Channel 133397
15MHz	QPSK	1	0	23.74	23.82	23.69
		1	37	23.78	23.84	23.73
		1	74	23.76	23.81	23.70
		36	0	22.80	22.96	22.87
		36	20	22.85	22.91	22.90
		36	39	22.80	22.89	22.92
		75	0	22.83	22.93	22.90
	16QAM	1	0	22.86	22.93	22.93
		1	37	22.85	22.88	22.97
		1	74	22.84	22.88	23.00
		36	0	21.88	21.95	22.02
		36	20	21.94	21.99	21.99
		36	39	21.99	21.97	21.95
		75	0	21.99	21.95	21.98
	64QAM	1	0	21.98	21.91	21.93
		1	37	21.99	21.89	21.92
		1	74	21.96	21.84	21.92
		36	0	20.89	20.82	20.86
		36	20	20.91	20.80	20.85
		36	39	20.94	20.79	20.84
		75	0	20.91	20.82	20.83
Bandwidth	Modulation	RB size	RB offset	Channel 133222	Channel 133297	Channel 133372
20MHz	QPSK	1	0	23.79	23.83	23.74
		1	50	23.79	23.85	23.77
		1	99	23.79	23.83	23.73
		50	0	22.92	22.96	22.76

		50	25	22.88	22.94	22.72
		50	50	22.83	22.92	22.74
		100	0	22.81	22.87	22.74
	16QAM	1	0	22.79	22.91	22.75
		1	50	22.80	22.95	22.71
		1	99	22.82	22.93	22.69
		50	0	21.90	22.18	21.86
		50	25	21.86	22.19	21.85
		50	50	21.89	22.17	21.87
		100	0	21.91	22.21	21.91
		1	0	21.92	22.23	21.93
	64QAM	1	50	21.88	22.25	21.96
		1	99	21.91	22.29	21.98
		50	0	20.90	21.24	20.93
		50	25	20.87	21.21	20.90
		50	50	20.84	21.25	20.89
		100	0	20.86	21.30	20.87

Wi-Fi 2.4G			Maximum Conducted Power (dBm)	
Mode	BW	Channel/Frequency(MHz)	Tune up(± 1 dBm)	Output Power(dBm)
802.11b	20M	1/2412	20.50	19.92
		6/2437	20.50	19.75
		11/2462	20.50	19.28
802.11g	20M	1/2412	19.00	18.28
		6/2437	19.00	18.05
		11/2462	19.00	17.78
802.11n	20M	1/2412	18.50	17.83
		6/2437	18.50	17.56
		11/2462	18.50	16.93
	40M	3/2422	18.50	17.47
		6/2437	18.50	17.36
		9/2452	18.50	17.22

Wi-Fi 5G				Maximum Conducted Power (dBm)	
	Mode	BW	Channel/Frequency(MHz)	Tune up(± 1 dBm)	Output Power(dBm)
U-NII-1	802.11a	20M	36/5180	14.50	13.92
			40/5200	14.50	13.80
			48/5240	14.50	14.02
	802.11n	20M	36/5180	14.50	13.66
			40/5200	14.50	13.65
			48/5240	14.50	13.93
		40M	38/5190	14.50	13.43
			46/5230	14.50	13.69
	802.11ac	20M	36/5180	14.50	13.51
			40/5200	14.50	13.48
			48/5240	14.50	13.62
		40M	38/5190	14.50	13.43
			46/5230	14.50	13.54
		80M	42/5210	13.00	11.87
U-NII-2	802.11a	20M	52/5260	14.00	13.01

A			56/5280	14.00	13.16
			64/5320	14.00	13.06
	802.11n	20M	52/5260	14.00	12.96
			56/5280	14.00	13.01
			64/5320	14.00	12.95
		40M	54/5270	14.00	12.89
			62/5310	14.00	12.73
	802.11ac	20M	52/5260	14.00	13.05
			56/5280	14.00	12.96
			64/5320	14.00	12.85
		40M	54/5270	14.00	12.43
			62/5310	14.00	12.77
		80M	58/5290	13.00	11.84
U-NII-2 C	802.11a	20M	100/5500	13.00	12.12
			116/5580	13.00	11.94
			140/5700	13.00	11.86
	802.11n	20M	100/5500	13.00	11.96
			116/5580	13.00	11.64
			140/5700	13.00	11.73
		40M	102/5510	12.50	11.57
			110/5550	12.50	11.41
			134/5670	12.50	11.26
	802.11ac	20M	100/5500	12.50	11.87
			116/5580	12.50	11.57
			140/5700	12.50	11.72
		40M	102/5510	12.50	11.79
			110/5550	12.50	11.62
			134/5670	12.50	11.31
		80M	106/5530	11.50	10.31
			122/5610	12.50	11.33
U-NII-3	802.11a	20M	149/5745	13.00	12.51

			157/5785	13.00	12.73
			165/5825	13.00	11.91
	802.11n	20M	149/5745	13.00	12.37
			157/5785	13.00	12.58
			165/5825	13.00	11.90
		40M	151/5755	13.00	12.57
			159/5795	13.00	12.61
	802.11ac	20M	149/5745	13.00	12.55
			157/5785	13.00	12.61
			165/5825	13.00	11.91
		40M	151/5755	13.00	12.51
			159/5795	13.00	12.52
		80M	155/5775	13.00	12.58

Hyperwifi	Maximum Output Power (dBm)					
Channel/Frequency(MHz)	903.5		915		926.5	
Bandwidth(Mhz)	Tune up($\pm$ 1dBm)	Output Power	Tune up($\pm$ 1dBm)	Output Power	Tune up($\pm$ 1dBm)	Output Power
1	25	24.35	25	24.23	25	24.18

BlueTooth	Maximum Output Power (dBm)					
Channel/Frequency(MHz)	0/2402		39/2441		78/2480	
Mode	Tune up($\pm$ 1dBm)	Output Power	Tune up($\pm$ 1dBm)	Output Power	Tune up($\pm$ 1dBm)	Output Power
DH5	8.00	7.28	9.00	8.13	9.00	8.68
Mode	Channel/Frequency(MHz)		Tune up($\pm$ 1dBm)		Output Power	
BLE 1M	0/2402		2.00		1.25	
	19/2440		2.00		1.61	
	39/2480		1.00		-0.1	

Reduce power

<u>Band:</u> <u>DCS1900</u>	<u>Burst Average Power (dBm)</u>			<u>Frame Average Power (dBm)</u>		
<u>Channel</u>	512	661	810	512	661	810
<u>GSM (CS)</u>	24.39	24.40	24.29	15.39	15.40	15.29
<u>GPRS/EDGE</u> <u>(GMSK, 1 Tx</u> <u>slot)</u>	24.42	24.44	24.29	15.42	15.44	15.29
<u>GPRS/EDGE</u> <u>(GMSK, 2 Tx</u> <u>slots)</u>	22.92	22.97	22.87	16.92	16.97	16.87
<u>GPRS/EDGE</u> <u>(GMSK, 3 Tx</u> <u>slots)</u>	20.92	20.97	20.96	16.66	16.71	16.70
<u>GPRS/EDGE</u> <u>(GMSK, 4 Tx</u> <u>slots)</u>	18.62	18.70	19.03	15.62	15.70	16.03
<u>EDGE (8PSK,</u> <u>1 Tx slot)</u>	20.80	20.60	20.69	11.80	11.60	11.69
<u>EDGE (8PSK,</u> <u>2 Tx slots)</u>	19.00	18.88	18.94	13.00	12.88	12.94
<u>EDGE (8PSK,</u> <u>3 Tx slots)</u>	16.77	16.65	16.69	12.51	12.39	12.43
<u>EDGE (8PSK,</u> <u>4 Tx slots)</u>	14.58	14.44	14.45	11.58	11.44	11.45

UMTS Band II		Conducted Power (dBm)		
		9262	9400	9538
WCDMA	12.2kbps RMC	18.00	17.65	17.86
HSDPA	Subtest 1	16.84	16.69	16.92
	Subtest 2	16.11	15.98	16.17
	Subtest 3	16.14	16.02	16.29
	Subtest 4	16.24	16.00	16.05
HSUPA	Subtest 1	15.56	15.27	15.34
	Subtest 2	15.64	15.37	15.57
	Subtest 3	16.43	16.22	16.37
	Subtest 4	15.10	14.73	15.04
	Subtest 5	16.35	16.13	16.34

UMTS Band IV		Conducted Power (dBm)		
		1312	1412	1513
WCDMA	12.2kbps RMC	17.07	17.25	17.31
HSDPA	Subtest 1	16.03	16.34	16.40
	Subtest 2	15.41	15.65	15.65
	Subtest 3	15.36	15.60	15.57
	Subtest 4	15.34	15.61	15.57
HSUPA	Subtest 1	14.74	14.95	15.03
	Subtest 2	14.83	15.06	15.13
	Subtest 3	15.80	16.02	16.06
	Subtest 4	14.23	14.47	14.54
	Subtest 5	15.59	15.87	15.92

LTE Band2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	17.39	17.36	17.32
		1	3	17.41	17.36	17.36
		1	5	17.36	17.32	17.32
		3	0	16.42	16.35	16.45
		3	1	16.41	16.37	16.40
		3	3	16.42	16.38	16.36
		6	0	16.43	16.41	16.37
	16QAM	1	0	16.43	16.38	16.34
		1	3	16.42	16.36	16.34
		1	5	16.47	16.34	16.31
		3	0	15.47	15.46	15.39
		3	1	15.47	15.49	15.35
		3	3	15.51	15.45	15.35
		6	0	15.50	15.46	15.39
	64QAM	1	0	15.54	15.48	15.35
		1	3	15.54	15.52	15.34
		1	5	15.57	15.50	15.33
		3	0	14.47	14.44	14.23
		3	1	14.49	14.42	14.20
		3	3	14.51	14.41	14.21
		6	0	14.53	14.39	14.24
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	17.39	17.31	17.33
		1	8	17.41	17.33	17.37
		1	14	17.41	17.31	17.37
		8	0	16.60	16.53	16.53
		8	4	16.60	16.48	16.54
		8	7	16.61	16.45	16.52
		15	0	16.65	16.49	16.50
	16QAM	1	0	16.61	16.47	16.46
		1	8	16.65	16.46	16.46
		1	14	16.60	16.50	16.44
		8	0	15.70	15.62	15.57

		8	4	15.68	15.62	15.53
		8	7	15.70	15.65	15.50
		15	0	15.74	15.70	15.49
	64QAM	1	0	15.73	15.70	15.50
		1	8	15.74	15.65	15.45
		1	14	15.75	15.69	15.40
		8	0	14.72	14.60	14.33
		8	4	14.74	14.58	14.35
		8	7	14.73	14.61	14.36
		15	0	14.69	14.65	14.37
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	17.37	17.33	17.37
		1	13	17.40	17.34	17.40
		1	24	17.38	17.30	17.35
		12	0	16.42	16.31	16.51
		12	6	16.38	16.35	16.50
		12	13	16.42	16.36	16.51
		25	0	16.46	16.32	16.51
	16QAM	1	0	16.45	16.29	16.51
		1	13	16.44	16.25	16.49
		1	24	16.44	16.27	16.48
		12	0	15.61	15.32	15.59
		12	6	15.64	15.32	15.53
		12	13	15.64	15.33	15.52
		25	0	15.63	15.33	15.52
	64QAM	1	0	15.63	15.36	15.56
		1	13	15.63	15.35	15.58
		1	24	15.64	15.34	15.61
		12	0	14.65	14.29	14.53
		12	6	14.68	14.25	14.50
		12	13	14.67	14.20	14.49
		25	0	14.64	14.22	14.48
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	17.34	17.35	17.35
		1	25	17.39	17.35	17.40
		1	49	17.35	17.34	17.38

		25	0	16.54	16.41	16.43
		25	12	16.56	16.45	16.39
		25	25	16.52	16.44	16.37
		50	0	16.48	16.43	16.41
	16QAM	1	0	16.49	16.42	16.42
		1	25	16.54	16.42	16.44
		1	49	16.56	16.45	16.46
		25	0	15.67	15.62	15.62
		25	12	15.63	15.62	15.68
		25	25	15.58	15.67	15.72
		50	0	15.61	15.64	15.77
	64QAM	1	0	15.63	15.63	15.72
		1	25	15.63	15.65	15.76
		1	49	15.60	15.63	15.72
		25	0	14.55	14.62	14.62
		25	12	14.56	14.66	14.65
		25	25	14.53	14.61	14.65
		50	0	14.57	14.62	14.68
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	17.36	17.34	17.37
		1	37	17.40	17.38	17.39
		1	74	17.40	17.37	17.39
		36	0	16.58	16.44	16.42
		36	20	16.55	16.44	16.41
		36	39	16.60	16.43	16.42
		75	0	16.65	16.45	16.47
	16QAM	1	0	16.70	16.44	16.45
		1	37	16.67	16.45	16.44
		1	74	16.67	16.45	16.45
		36	0	15.76	15.45	15.49
		36	20	15.74	15.47	15.42
		36	39	15.78	15.42	15.42
		75	0	15.80	15.44	15.38
	64QAM	1	0	15.78	15.43	15.42
		1	37	15.77	15.46	15.40
		1	74	15.74	15.44	15.37
		36	0	14.68	14.37	14.34

		36	20	14.69	14.36	14.36
		36	39	14.73	14.34	14.37
		75	0	14.73	14.33	14.35
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	17.43	17.43	17.44
		1	50	17.46	17.46	17.44
		1	99	17.43	17.43	17.41
		50	0	16.47	16.55	16.52
		50	25	16.42	16.58	16.53
		50	50	16.43	16.56	16.52
		100	0	16.40	16.55	16.50
	16QAM	1	0	16.43	16.50	16.50
		1	50	16.45	16.54	16.50
		1	99	16.48	16.57	16.46
		50	0	15.68	15.81	15.51
		50	25	15.65	15.76	15.50
		50	50	15.69	15.72	15.46
		100	0	15.72	15.70	15.42
	64QAM	1	0	15.69	15.73	15.44
		1	50	15.72	15.77	15.42
		1	99	15.75	15.80	15.44
		50	0	14.75	14.77	14.46
		50	25	14.75	14.80	14.46
		50	50	14.71	14.79	14.41
		100	0	14.70	14.78	14.42

LTE Band4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	16.79	16.76	16.69
		1	3	16.83	16.77	16.73
		1	5	16.79	16.74	16.68
		3	0	15.84	15.76	15.70
		3	1	15.83	15.73	15.68
		3	3	15.87	15.69	15.72
		6	0	15.85	15.66	15.75
	16QAM	1	0	15.87	15.63	15.73
		1	3	15.90	15.58	15.70
		1	5	15.87	15.57	15.70
		3	0	15.02	14.72	14.73
		3	1	14.97	14.72	14.73
		3	3	15.00	14.76	14.70
		6	0	15.04	14.80	14.72
	64QAM	1	0	15.08	14.80	14.68
		1	3	15.12	14.79	14.64
		1	5	15.13	14.80	14.60
		3	0	14.11	13.73	13.61
		3	1	14.11	13.72	13.57
		3	3	14.15	13.70	13.54
		6	0	14.16	13.66	13.49
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	16.84	16.80	16.71
		1	8	16.86	16.84	16.75
		1	14	16.82	16.80	16.75
		8	0	15.86	16.05	15.89
		8	4	15.86	16.07	15.92
		8	7	15.91	16.10	15.92
		15	0	15.95	16.10	15.89
	16QAM	1	0	15.94	16.12	15.89
		1	8	15.90	16.14	15.88
		1	14	15.88	16.17	15.87
		8	0	14.94	15.38	15.02
		8	4	14.91	15.37	15.05

		8	7	14.92	15.40	15.07
		15	0	14.94	15.40	15.05
	64QAM	1	0	14.92	15.40	15.01
		1	8	14.94	15.38	15.03
		1	14	14.98	15.38	15.07
		8	0	13.89	14.29	14.04
		8	4	13.92	14.33	13.99
		8	7	13.96	14.28	13.96
		15	0	13.97	14.25	13.93
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	16.82	16.78	16.72
		1	13	16.86	16.80	16.74
		1	24	16.82	16.76	16.72
		12	0	16.07	15.90	15.76
		12	6	16.09	15.91	15.80
		12	13	16.08	15.88	15.80
		25	0	16.03	15.88	15.81
	16QAM	1	0	16.06	15.87	15.79
		1	13	16.07	15.91	15.83
		1	24	16.09	15.91	15.83
		12	0	15.27	15.03	14.93
		12	6	15.26	14.99	14.90
		12	13	15.30	14.95	14.95
		25	0	15.28	15.00	14.90
	64QAM	1	0	15.24	15.05	14.87
		1	13	15.28	15.02	14.82
		1	24	15.29	14.98	14.87
		12	0	14.27	13.93	13.79
		12	6	14.32	13.94	13.81
		12	13	14.32	13.97	13.81
		25	0	14.27	13.98	13.81
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	16.83	16.81	16.76
		1	25	16.85	16.84	16.78
		1	49	16.81	16.79	16.74
		25	0	15.85	16.00	15.90

		25	12	15.88	15.95	15.92
		25	25	15.84	15.91	15.94
		50	0	15.84	15.93	15.96
	16QAM	1	0	15.82	15.93	15.94
		1	25	15.77	15.91	15.89
		1	49	15.77	15.94	15.90
		25	0	14.94	15.09	14.95
		25	12	15.00	15.12	14.98
		25	25	15.02	15.14	14.98
		50	0	15.06	15.14	14.93
		1	0	15.09	15.17	14.98
	64QAM	1	25	15.11	15.20	15.02
		1	49	15.13	15.16	15.07
		25	0	14.13	14.14	14.07
		25	12	14.14	14.19	14.03
		25	25	14.17	14.18	14.01
		50	0	14.19	14.15	13.97
		1	0	15.09	15.17	14.98
		1	25	15.11	15.20	15.02
		1	49	15.13	15.16	15.07
		25	0	14.13	14.14	14.07
		25	12	14.14	14.19	14.03
		25	25	14.17	14.18	14.01
		50	0	14.19	14.15	13.97
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	16.85	16.86	16.78
		1	37	16.89	16.87	16.80
		1	74	16.85	16.86	16.79
		36	0	15.91	16.04	15.85
		36	20	15.92	16.05	15.88
		36	39	15.96	16.09	15.84
		75	0	15.92	16.09	15.85
	16QAM	1	0	15.94	16.13	15.83
		1	37	15.97	16.17	15.84
		1	74	15.95	16.20	15.84
		36	0	14.98	15.39	14.98
		36	20	15.00	15.33	14.94
		36	39	15.01	15.35	14.91
		75	0	15.04	15.34	14.94
	64QAM	1	0	15.05	15.34	14.98
		1	37	15.01	15.29	15.03
		1	74	15.02	15.32	14.98
		36	0	13.99	14.28	13.92
		36	20	13.95	14.28	13.89

		36	39	13.95	14.27	13.87
		75	0	13.92	14.24	13.84
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	16.83	16.89	16.84
		1	50	16.87	16.91	16.85
		1	99	16.86	16.87	16.83
		50	0	15.99	16.09	15.93
		50	25	15.94	16.07	15.89
		50	50	15.96	16.12	15.93
		100	0	15.99	16.11	15.95
	16QAM	1	0	15.95	16.15	15.94
		1	50	15.96	16.11	15.90
		1	99	15.94	16.14	15.91
		50	0	14.95	15.31	15.13
		50	25	14.94	15.30	15.12
		50	50	14.90	15.34	15.12
		100	0	14.87	15.31	15.17
	64QAM	1	0	14.91	15.28	15.16
		1	50	14.95	15.32	15.17
		1	99	14.97	15.29	15.21
		50	0	13.98	14.22	14.23
		50	25	14.01	14.22	14.21
		50	50	13.97	14.26	14.16
		100	0	13.94	14.26	14.11

LTE Band7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	20.36	20.38	20.27
		1	13	20.41	20.39	20.30
		1	24	20.37	20.37	20.26
		12	0	19.53	19.57	19.26
		12	6	19.54	19.56	19.25
		12	13	19.50	19.55	19.23
		25	0	19.53	19.53	19.18
	16QAM	1	0	19.57	19.48	19.21
		1	13	19.55	19.50	19.16
		1	24	19.51	19.52	19.21
		12	0	18.63	18.70	18.46
		12	6	18.66	18.76	18.45
		12	13	18.67	18.76	18.45
		25	0	18.64	18.73	18.49
	64QAM	1	0	18.68	18.69	18.47
		1	13	18.72	18.64	18.51
		1	24	18.76	18.69	18.52
		12	0	17.67	17.69	17.53
		12	6	17.63	17.67	17.55
		12	13	17.60	17.66	17.54
		25	0	17.60	17.68	17.56
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	20.42	20.40	20.27
		1	25	20.43	20.44	20.32
		1	49	20.42	20.43	20.28
		25	0	19.54	19.65	19.31
		25	12	19.58	19.66	19.32
		25	25	19.58	19.65	19.27
		50	0	19.58	19.68	19.27
	16QAM	1	0	19.59	19.73	19.31
		1	25	19.59	19.73	19.29
		1	49	19.54	19.69	19.27
		25	0	18.61	18.74	18.53
		25	12	18.67	18.78	18.57

		50	25	19.47	19.53	19.40
		50	50	19.43	19.53	19.44
		100	0	19.48	19.58	19.46
	16QAM	1	0	19.43	19.61	19.45
		1	50	19.40	19.59	19.43
		1	99	19.36	19.57	19.44
		50	0	18.62	18.79	18.69
		50	25	18.59	18.84	18.64
		50	50	18.55	18.88	18.65
		100	0	18.53	18.87	18.61
	64QAM	1	0	18.51	18.82	18.63
		1	50	18.48	18.82	18.66
		1	99	18.47	18.80	18.67
		50	0	17.47	17.71	17.60
		50	25	17.46	17.66	17.55
		50	50	17.45	17.65	17.57
		100	0	17.47	17.69	17.55

LTE Band25

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26047	26365	26683
1.4MHz	QPSK	1	0	17.37	17.33	17.25
		1	3	17.38	17.37	17.26
		1	5	17.36	17.36	17.25
		3	0	16.53	16.38	16.37
		3	1	16.49	16.38	16.33
		3	3	16.54	16.35	16.29
		6	0	16.55	16.38	16.27
	16QAM	1	0	16.57	16.36	16.29
		1	3	16.59	16.40	16.24
		1	5	16.59	16.38	16.20
		3	0	15.85	15.53	15.21
		3	1	15.82	15.59	15.15
		3	3	15.78	15.62	15.16
		6	0	15.78	15.61	15.19
	64QAM	1	0	15.75	15.58	15.23
		1	3	15.79	15.61	15.27
		1	5	15.77	15.64	15.28
		3	0	14.67	14.55	14.31
		3	1	14.62	14.56	14.34
		3	3	14.66	14.61	14.37
		6	0	14.65	14.65	14.36
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26055	26365	26675
3MHz	QPSK	1	0	17.42	17.34	17.28
		1	8	17.45	17.36	17.32
		1	14	17.43	17.36	17.28
		8	0	16.60	16.40	16.30
		8	4	16.57	16.42	16.29
		8	7	16.60	16.45	16.24
		15	0	16.64	16.44	16.26
	16QAM	1	0	16.59	16.43	16.30
		1	8	16.59	16.43	16.25
		1	14	16.56	16.39	16.20
		8	0	15.68	15.56	15.39
		8	4	15.74	15.50	15.34

		8	7	15.73	15.48	15.35
		15	0	15.72	15.45	15.30
	64QAM	1	0	15.67	15.47	15.32
		1	8	15.65	15.49	15.27
		1	14	15.67	15.53	15.25
		8	0	14.67	14.44	14.21
		8	4	14.67	14.42	14.24
		8	7	14.72	14.46	14.24
		15	0	14.72	14.47	14.26
Bandwidth	Modulation	RB size	RB offset	Channel 26065	Channel 26365	Channel 26665
5MHz	QPSK	1	0	17.45	17.40	17.29
		1	13	17.46	17.40	17.32
		1	24	17.43	17.38	17.27
		12	0	16.55	16.61	16.41
		12	6	16.51	16.62	16.37
		12	13	16.52	16.64	16.33
		25	0	16.53	16.66	16.29
	16QAM	1	0	16.51	16.62	16.26
		1	13	16.52	16.64	16.31
		1	24	16.50	16.68	16.29
		12	0	15.53	15.79	15.43
		12	6	15.53	15.78	15.46
		12	13	15.57	15.78	15.49
		25	0	15.56	15.74	15.53
	64QAM	1	0	15.52	15.73	15.52
		1	13	15.53	15.70	15.54
		1	24	15.50	15.74	15.52
		12	0	14.46	14.75	14.51
		12	6	14.46	14.73	14.49
		12	13	14.51	14.72	14.53
		25	0	14.54	14.69	14.54
Bandwidth	Modulation	RB size	RB offset	Channel 26090	Channel 26365	Channel 26640
10MHz	QPSK	1	0	17.42	17.36	17.32
		1	25	17.42	17.38	17.37
		1	49	17.38	17.35	17.36
		25	0	16.51	16.59	16.49

		25	12	16.52	16.63	16.47
		25	25	16.54	16.62	16.43
		50	0	16.50	16.58	16.48
	16QAM	1	0	16.46	16.62	16.53
		1	25	16.45	16.62	16.50
		1	49	16.43	16.58	16.55
		25	0	15.54	15.83	15.77
		25	12	15.54	15.83	15.78
		25	25	15.49	15.81	15.77
		50	0	15.51	15.85	15.74
		1	0	15.52	15.86	15.76
	64QAM	1	25	15.51	15.84	15.80
		1	49	15.53	15.80	15.79
		25	0	14.48	14.74	14.72
		25	12	14.48	14.75	14.68
		25	25	14.51	14.72	14.70
		50	0	14.53	14.68	14.72
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26115	26365	26615
15MHz	QPSK	1	0	17.36	17.31	17.34
		1	37	17.41	17.34	17.38
		1	74	17.38	17.30	17.33
		36	0	16.48	16.31	16.41
		36	20	16.49	16.31	16.43
		36	39	16.49	16.30	16.39
		75	0	16.46	16.34	16.41
	16QAM	1	0	16.42	16.38	16.41
		1	37	16.41	16.42	16.42
		1	74	16.38	16.40	16.43
		36	0	15.64	15.57	15.58
		36	20	15.59	15.61	15.60
		36	39	15.60	15.65	15.61
		75	0	15.58	15.70	15.59
	64QAM	1	0	15.56	15.67	15.55
		1	37	15.52	15.65	15.56
		1	74	15.48	15.66	15.51
		36	0	14.45	14.60	14.44
		36	20	14.49	14.56	14.41

		36	39	14.50	14.57	14.36
		75	0	14.45	14.55	14.39
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26140	26365	26590
20MHz	QPSK	1	0	17.36	17.42	17.37
		1	50	17.39	17.43	17.41
		1	99	17.36	17.39	17.40
		50	0	16.37	16.45	16.51
		50	25	16.37	16.44	16.49
		50	50	16.35	16.43	16.52
		100	0	16.30	16.42	16.54
	16QAM	1	0	16.26	16.43	16.53
		1	50	16.28	16.42	16.52
		1	99	16.32	16.41	16.56
		50	0	15.55	15.57	15.76
		50	25	15.48	15.58	15.82
		50	50	15.44	15.62	15.79
		100	0	15.40	15.57	15.74
	64QAM	1	0	15.42	15.58	15.73
		1	50	15.44	15.54	15.69
		1	99	15.44	15.58	15.73
		50	0	14.39	14.58	14.63
		50	25	14.41	14.56	14.66
		50	50	14.46	14.51	14.69
		100	0	14.43	14.55	14.68

LTE Band30

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				27685	27710	27735
5MHz	QPSK	1	0	19.18	19.22	19.18
		1	13	19.22	19.25	19.22
		1	24	19.20	19.24	19.22
		12	0	18.27	18.46	18.32
		12	6	18.26	18.46	18.35
		12	13	18.27	18.41	18.33
		25	0	18.31	18.45	18.37
	16QAM	1	0	18.34	18.45	18.40
		1	13	18.30	18.46	18.43
		1	24	18.28	18.46	18.43
		12	0	17.31	17.53	17.54
		12	6	17.25	17.57	17.58
		12	13	17.28	17.52	17.53
		25	0	17.24	17.52	17.49
	64QAM	1	0	17.26	17.52	17.52
		1	13	17.26	17.53	17.48
		1	24	17.27	17.56	17.53
		12	0	16.26	16.51	16.46
		12	6	16.29	16.51	16.45
		12	13	16.24	16.55	16.45
		25	0	16.23	16.52	16.43
Bandwidth	Modulation	RB size	RB offset	Channel		
				27710		
10MHz	QPSK	1	0	19.22		
		1	25	19.25		
		1	49	19.22		
		25	0	18.30		
		25	12	18.32		
		25	25	18.34		
		50	0	18.37		
	16QAM	1	0	18.32		
		1	25	18.37		
		1	49	18.33		
		25	0	17.51		
		25	12	17.52		

		25	25	17.53
		50	0	17.50
	64QAM	1	0	17.50
		1	25	17.50
		1	49	17.49
		25	0	16.43
		25	12	16.48
		25	25	16.45
		50	0	16.49

LTE Band66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131979	132322	132665
1.4MHz	QPSK	1	0	16.56	16.53	16.62
		1	3	16.61	16.58	16.65
		1	5	16.57	16.57	16.60
		3	0	15.78	15.59	15.84
		3	1	15.79	15.61	15.82
		3	3	15.77	15.66	15.79
		6	0	15.73	15.70	15.80
	16QAM	1	0	15.73	15.71	15.81
		1	3	15.75	15.70	15.78
		1	5	15.74	15.70	15.80
		3	0	15.00	14.73	14.91
		3	1	14.95	14.69	14.92
		3	3	14.94	14.70	14.95
		6	0	14.96	14.73	14.95
	64QAM	1	0	14.91	14.70	14.96
		1	3	14.87	14.69	14.97
		1	5	14.88	14.69	14.93
		3	0	13.90	13.67	13.92
		3	1	13.89	13.69	13.92
		3	3	13.85	13.65	13.87
		6	0	13.87	13.67	13.91
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131987	132322	132657
3MHz	QPSK	1	0	16.66	16.57	16.74
		1	8	16.66	16.62	16.74
		1	14	16.65	16.58	16.69
		8	0	15.87	15.71	15.91
		8	4	15.82	15.71	15.96
		8	7	15.81	15.75	15.98
		15	0	15.84	15.73	15.98
	16QAM	1	0	15.85	15.72	15.95
		1	8	15.85	15.75	15.92
		1	14	15.86	15.70	15.88
		8	0	14.96	14.95	15.11
		8	4	14.98	14.96	15.13

		25	12	15.68	15.93	15.71
		25	25	15.70	15.97	15.68
		50	0	15.66	15.98	15.64
	16QAM	1	0	15.70	15.99	15.65
		1	25	15.68	15.97	15.62
		1	49	15.67	15.94	15.58
		25	0	14.70	14.96	14.72
		25	12	14.74	14.99	14.66
		25	25	14.79	15.00	14.65
		50	0	14.74	15.00	14.66
		1	0	14.77	14.97	14.63
	64QAM	1	25	14.75	15.01	14.62
		1	49	14.74	14.97	14.63
		25	0	13.68	13.88	13.63
		25	12	13.71	13.85	13.59
		25	25	13.69	13.89	13.55
		50	0	13.71	13.90	13.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132047	132322	132597
15MHz	QPSK	1	0	16.71	16.71	16.68
		1	37	16.73	16.74	16.68
		1	74	16.70	16.71	16.67
		36	0	15.78	15.80	15.88
		36	20	15.79	15.77	15.87
		36	39	15.81	15.73	15.86
		75	0	15.76	15.77	15.90
	16QAM	1	0	15.76	15.76	15.91
		1	37	15.81	15.71	15.93
		1	74	15.81	15.70	15.98
		36	0	14.83	14.86	15.03
		36	20	14.77	14.79	15.04
		36	39	14.76	14.75	15.09
		75	0	14.76	14.73	15.11
	64QAM	1	0	14.73	14.68	15.07
		1	37	14.77	14.66	15.05
		1	74	14.77	14.70	15.05
		36	0	13.71	13.67	14.04
		36	20	13.72	13.64	14.03

		36	39	13.68	13.60	13.99
		75	0	13.67	13.56	13.97
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132072	132322	132572
20MHz	QPSK	1	0	16.72	16.80	16.67
		1	50	16.77	16.81	16.72
		1	99	16.73	16.79	16.67
		50	0	15.91	16.02	15.68
		50	25	15.92	15.98	15.73
		50	50	15.95	15.95	15.73
		100	0	15.97	15.94	15.68
	16QAM	1	0	15.98	15.94	15.72
		1	50	15.94	15.91	15.70
		1	99	15.90	15.92	15.66
		50	0	14.97	14.98	14.88
		50	25	15.00	14.92	14.86
		50	50	15.04	14.96	14.82
		100	0	15.03	14.93	14.78
	64QAM	1	0	15.08	14.91	14.78
		1	50	15.11	14.94	14.79
		1	99	15.08	14.96	14.78
		50	0	13.98	13.92	13.75
		50	25	13.99	13.91	13.73
		50	50	13.99	13.91	13.75
		100	0	14.04	13.91	13.75