

**UMTS BAND V**

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	24.62
	836.6	<b>24.67</b>
	846.6	23.98
HSDPA Subtest 1	826.4	23.77
	836.6	23.91
	846.6	23.61
HSDPA Subtest 2	826.4	23.62
	836.6	23.74
	846.6	23.44
HSDPA Subtest 3	826.4	23.59
	836.6	23.75
	846.6	23.88
HSDPA Subtest 4	826.4	23.48
	836.6	23.88
	846.6	23.71
HSUPA Subtest 1	826.4	23.91
	836.6	23.56
	846.6	23.13
HSUPA Subtest 2	826.4	23.46
	836.6	23.02
	846.6	22.52
HSUPA Subtest 3	826.4	23.58
	836.6	23.03
	846.6	22.19
HSUPA Subtest 4	826.4	23.71
	836.6	22.12
	846.6	22.38
HSUPA Subtest 5	826.4	23.56
	836.6	22.71
	846.6	22.17

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According to 3GPP 25.101 sub-clause 6.2.2 , the maximum output power is allowed to be reduced by following the table.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$

Note: CM=1 for  $\beta_d/\beta_{d1}=12/15$ ,  $\beta_{hs}/\beta_c=24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX\_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

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## LTE Band

### LTE (TDD) Considerations

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band 38, 40, 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

**Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)**

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

**Table 4.2-2: Uplink-downlink configurations**

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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### Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle(%)
		0	1	2	3	4	5	6	7	8	9	
0	5ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5ms	D	S	U	U	U	D	S	U	U	D	53.33

**Note:** Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle =  $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

where

$T_s = 1/(15000 \times 2048)$  seconds

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# LTE Band

Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18607	18900	19193
1.4MHz	QPSK	1	0	0	21.62	21.77	21.56
			3	0	21.59	21.76	21.41
			5	0	21.61	21.78	21.52
		3	0	0	21.60	21.67	21.37
			2	0	21.70	21.67	21.37
			3	0	21.65	21.66	21.37
		6	0	1	20.65	20.75	20.31
	16QAM	1	0	1	20.66	20.57	20.41
			3	1	20.46	20.62	20.18
			5	1	20.64	20.56	20.28
		3	0	1	20.44	20.51	20.14
			2	1	20.59	20.51	20.18
			3	1	20.50	20.55	20.17
		6	0	2	19.68	19.72	19.31
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18615	18900	19185
3MHz	QPSK	1	0	0	21.69	21.68	21.38
			7	0	21.84	21.80	21.41
			14	0	21.75	21.83	21.44
		8	0	1	20.66	20.78	20.97
			4	1	20.71	20.82	20.41
			7	1	20.69	20.83	20.33
		15	0	1	20.69	20.78	20.43
	16QAM	1	0	1	20.65	20.82	20.28
			7	1	20.46	20.45	20.61
			14	1	20.61	20.80	20.45
		8	0	2	19.73	19.83	19.43
			4	2	19.66	19.88	19.43
			7	2	19.72	19.82	19.44
		15	0	2	19.63	19.71	19.45

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18625	18900	19175
5MHz	QPSK	1	0	0	21.65	21.86	21.80
			13	0	21.78	22.13	21.41
			24	0	21.99	21.84	21.47
		12	0	1	20.72	20.91	20.52
			6	1	20.72	20.88	20.51
			13	1	20.56	20.75	20.46
		25	0	1	20.69	20.78	20.45
	16QAM	1	0	1	20.79	21.11	20.59
			13	1	20.62	20.86	20.39
			24	1	20.59	20.97	20.34
		12	0	2	19.58	19.91	19.58
			6	2	19.71	19.82	19.58
			13	2	19.78	19.89	19.48
		25	0	2	19.77	19.76	19.56
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150
10MHz	QPSK	1	0	0	22.06	21.86	21.61
			24	0	21.68	<b>22.14</b>	21.70
			49	0	22.11	21.69	21.81
		25	0	1	20.75	20.99	20.66
			12	1	20.77	20.94	20.57
			25	1	20.58	20.79	20.66
		50	0	1	20.70	20.88	20.67
	16QAM	1	0	1	20.62	20.91	20.51
			24	1	20.83	21.12	20.53
			49	1	21.04	20.77	20.73
		25	0	2	19.74	19.87	19.64
			12	2	19.72	19.94	19.76
			25	2	19.65	19.95	19.78
		50	0	2	19.69	19.85	19.67

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18675	18900	19125
15MHz	QPSK	1	0	0	21.71	21.81	21.93
			38	0	21.89	21.67	21.60
			74	0	21.42	22.02	21.89
		36	0	1	20.80	21.34	20.64
			18	1	20.62	21.25	20.81
			39	1	21.09	20.92	21.02
		75	0	1	20.54	20.76	20.59
	16QAM	1	0	1	21.12	21.05	20.99
			38	1	20.86	21.16	20.77
			74	1	20.52	21.29	20.60
		36	0	2	21.09	21.01	20.69
			18	2	20.90	21.35	20.72
			39	2	20.59	21.16	20.68
		75	0	2	19.41	19.81	19.56
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18700	18900	19100
20MHz	QPSK	1	0	0	21.89	21.70	21.67
			50	0	21.23	21.92	21.48
			99	0	21.79	21.72	21.70
		50	0	1	20.55	20.96	20.52
			25	1	20.50	20.96	20.50
			50	1	20.37	20.66	20.67
		100	0	1	20.57	20.83	20.58
	16QAM	1	0	1	20.61	21.22	20.61
			50	1	20.09	21.16	20.57
			99	1	20.73	21.07	20.47
		50	0	2	19.37	19.97	19.52
			25	2	19.50	19.68	19.54
			50	2	19.48	19.97	19.71
		100	0	2	19.44	19.82	19.64

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19957	20175	20393
1.4MHz	QPSK	1	0	0	23.32	22.64	22.51
			3	0	23.35	22.77	22.51
			5	0	23.29	22.67	22.50
		3	0	0	23.31	22.76	22.42
			2	0	23.33	22.75	22.51
			3	0	23.24	22.59	22.42
		6	0	1	22.40	21.64	21.47
	16QAM	1	0	1	22.31	21.65	21.44
			3	1	22.22	21.76	21.41
			5	1	22.32	21.59	21.30
		3	0	1	22.18	21.49	21.37
			2	1	22.20	21.57	21.33
			3	1	22.19	21.58	21.38
		6	0	2	21.42	20.69	20.39
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0	0	23.72	23.01	22.75
			7	0	23.87	23.01	22.73
			14	0	23.79	23.03	22.78
		8	0	1	22.60	21.93	21.77
			4	1	22.58	22.01	21.84
			7	1	22.59	22.00	21.79
		15	0	1	22.57	21.88	21.69
	16QAM	1	0	1	22.65	22.04	21.62
			7	1	22.57	21.97	21.69
			14	1	22.74	21.95	21.56
		8	0	2	21.58	20.98	20.74
			4	2	21.60	21.03	20.68
			7	2	21.58	20.93	20.80
		15	0	2	21.63	20.96	20.53

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19975	20175	20375
5MHz	QPSK	1	0	0	23.48	23.04	22.79
			13	0	23.65	23.11	22.70
			24	0	23.80	22.95	22.73
		12	0	1	22.55	21.99	21.68
			6	1	22.57	21.99	21.75
			13	1	22.55	21.96	21.75
		25	0	1	22.57	21.88	21.77
	16QAM	1	0	1	22.63	21.93	21.95
			13	1	22.56	21.87	21.95
			24	1	22.35	22.03	21.96
		12	0	2	21.53	20.96	20.82
			6	2	21.63	20.89	20.83
			13	2	21.61	20.96	20.76
		25	0	2	21.66	20.96	20.72
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20000	20175	20350
10MHz	QPSK	1	0	0	23.98	23.56	22.64
			25	0	23.43	23.13	23.21
			49	0	23.79	22.80	23.06
		25	0	1	22.60	21.91	21.73
			13	1	22.59	21.92	21.82
			25	1	22.48	22.10	21.75
		50	0	1	22.45	21.96	21.84
	16QAM	1	0	1	22.64	22.64	21.45
			25	1	22.89	22.32	22.10
			49	1	23.09	22.19	21.87
		25	0	2	21.56	21.13	20.90
			13	2	21.57	20.88	20.74
			25	2	21.49	20.89	20.73
		50	0	2	21.51	20.92	20.79

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20025	20175	20325
15MHz	QPSK	1	0	0	23.12	23.00	22.46
			38	0	23.55	22.94	22.41
			74	0	23.29	22.88	22.70
		36	0	1	22.27	22.00	21.71
			18	1	22.44	22.16	22.01
			39	1	22.73	22.19	21.74
		75	0	1	22.21	21.77	21.50
	16QAM	1	0	1	22.66	22.26	21.79
			38	1	22.28	22.17	21.98
			74	1	22.41	21.95	21.68
		36	0	2	22.74	22.13	22.03
			18	2	22.31	22.03	21.81
			39	2	22.44	22.07	21.77
		75	0	2	21.17	20.80	20.53
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300
20MHz	QPSK	1	0	0	23.40	22.96	22.79
			50	0	23.02	22.50	22.48
			99	0	23.35	22.92	22.68
		50	0	1	22.11	21.54	21.73
			25	1	22.10	21.57	21.72
			50	1	21.96	21.75	21.51
		100	0	1	21.99	21.68	21.52
	16QAM	1	0	1	22.17	21.29	22.50
			50	1	21.86	21.75	22.24
			99	1	22.14	21.74	22.42
		50	0	2	21.13	20.62	20.79
			25	2	21.19	20.78	20.75
			50	2	21.20	20.63	20.53
		100	0	2	21.02	20.75	20.56

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20407	20525	20643
1.4MHz	QPSK	1	0	0	23.47	23.51	23.35
			3	0	23.41	23.48	23.39
			5	0	23.36	23.50	23.45
		3	0	0	23.43	23.52	23.53
			2	0	23.40	23.51	23.45
			3	0	23.44	23.53	23.44
		6	0	1	22.39	22.51	22.47
	16QAM	1	0	1	22.37	22.51	22.42
			3	1	22.35	22.54	22.52
			5	1	22.29	22.53	22.33
		3	0	1	22.22	22.34	22.34
			2	1	22.29	22.34	22.32
			3	1	22.14	22.31	22.23
		6	0	2	21.44	21.60	21.52
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0	0	23.49	23.48	23.61
			7	0	23.49	23.79	23.64
			14	0	23.50	23.67	23.40
		8	0	1	22.42	22.55	22.62
			4	1	22.42	22.49	22.57
			7	1	22.36	22.48	22.61
		15	0	1	22.36	22.64	22.53
	16QAM	1	0	1	22.39	22.73	22.52
			7	1	22.54	22.49	22.57
			14	1	22.52	22.61	22.45
		8	0	2	21.46	21.57	21.58
			4	2	21.49	21.46	21.58
			7	2	21.45	21.47	21.58
		15	0	2	21.44	21.64	21.46

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20425	20525	20625
5MHz	QPSK	1	0	0	23.49	23.47	23.41
			13	0	23.41	23.71	23.56
			24	0	23.58	23.66	23.69
		12	0	1	22.40	22.49	22.71
			6	1	22.42	22.48	22.72
			13	1	22.48	22.69	22.63
		25	0	1	22.37	22.54	22.63
	16QAM	1	0	1	22.46	22.43	22.88
			13	1	22.35	22.62	22.79
			24	1	22.53	22.72	22.52
		12	0	2	21.39	21.68	21.78
			6	2	21.42	21.42	21.77
			13	2	21.43	21.41	21.74
		25	0	2	21.48	21.63	21.69
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20450	20525	20600
10MHz	QPSK	1	0	0	23.71	23.82	23.91
			25	0	22.82	24.13	24.35
			49	0	22.95	23.54	24.29
		25	0	1	21.71	22.73	22.88
			13	1	21.71	22.41	22.81
			25	1	22.14	22.39	22.92
		50	0	1	22.02	22.61	22.80
	16QAM	1	0	1	22.86	23.18	22.50
			25	1	22.07	22.15	22.78
			49	1	22.03	22.38	22.94
		25	0	2	21.10	21.83	21.92
			13	2	20.77	21.41	21.93
			25	2	20.79	21.40	21.81
		50	0	2	21.04	21.57	21.83

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Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20775	21100	21425
5MHz	QPSK	1	0	0	23.04	22.71	21.84
			12	0	22.91	22.70	22.21
			24	0	23.00	22.63	22.03
		12	0	1	21.97	21.85	21.06
			6	1	21.96	21.88	21.00
			13	1	22.02	21.72	20.87
		25	0	1	22.02	21.74	20.90
	16QAM	1	0	1	21.85	22.12	20.86
			12	1	21.77	21.94	20.99
			24	1	21.90	22.05	20.78
		12	0	2	20.92	20.81	20.04
			6	2	20.98	20.97	20.00
			13	2	20.88	20.98	19.88
		25	0	2	21.06	20.77	20.00
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20800	21100	21400
10MHz	QPSK	1	0	0	22.89	23.05	22.08
			24	0	23.30	22.82	22.28
			49	0	23.23	22.69	21.93
		25	0	1	21.99	21.89	21.10
			12	1	22.00	21.87	20.93
			25	1	22.18	21.90	21.08
		50	0	1	22.06	21.84	21.06
	16QAM	1	0	1	22.37	21.64	21.20
			24	1	22.19	21.92	21.39
			49	1	22.15	21.41	21.04
		25	0	2	21.19	20.89	20.04
			12	2	20.94	20.90	20.07
			25	2	20.92	20.89	20.05
		50	0	2	21.07	20.82	20.08

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### Conducted Power of LTE Band 7 (dBm)

Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20825	21100	21375
15MHz	QPSK	1	0	0	23.34	23.49	22.80
			37	0	23.77	23.31	22.41
			74	0	<b>23.81</b>	23.35	22.96
		37	0	1	22.57	22.62	21.56
			16	1	23.17	22.56	21.89
			35	1	23.25	22.58	21.40
		75	0	1	22.84	22.37	21.74
	16QAM	1	0	1	22.60	22.68	21.85
			37	1	23.02	22.54	21.54
			74	1	23.16	22.46	21.53
		37	0	2	23.08	22.52	21.54
			16	2	22.57	22.67	21.84
			35	2	23.16	22.51	21.52
		75	0	2	21.73	21.40	20.68
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20850	21100	21350
20MHz	QPSK	1	0	0	23.65	23.54	22.61
			49	0	23.74	23.25	22.52
			99	0	23.38	23.30	22.41
		50	0	1	22.53	22.35	21.59
			25	1	22.52	22.48	21.75
			49	1	22.89	22.49	21.56
		100	0	1	22.80	22.42	21.58
	16QAM	1	0	1	22.59	22.66	21.46
			49	1	22.49	22.85	21.36
			99	1	22.79	22.72	21.36
		50	0	2	21.87	21.41	20.58
			25	2	21.65	21.50	20.57
			49	2	21.50	21.49	20.80
		100	0	2	21.77	21.42	20.64

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23017	23095	23173
1.4MHz	QPSK	1	0	0	22.79	22.96	23.69
			3	0	22.73	22.87	23.76
			5	0	22.81	22.83	<b>23.92</b>
		3	0	0	22.77	22.90	23.75
			2	0	22.77	22.91	23.77
			3	0	22.67	22.79	23.82
		6	0	1	21.88	22.03	22.81
	16QAM	1	0	1	21.82	21.99	22.85
			3	1	21.73	21.87	22.81
			5	1	21.75	21.90	22.75
		3	0	1	21.68	21.64	22.67
			2	1	21.61	21.78	22.55
			3	1	21.57	21.73	22.77
		6	0	2	20.80	20.99	21.75
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23025	23095	23165
3MHz	QPSK	1	0	0	22.88	23.16	22.68
			7	0	22.98	23.03	22.73
			14	0	22.95	23.15	22.64
		8	0	1	21.94	22.04	21.66
			4	1	21.95	22.12	21.58
			7	1	22.03	22.11	21.58
		15	0	1	22.04	22.15	21.72
	16QAM	1	0	1	22.06	22.06	21.37
			7	1	21.93	22.22	21.61
			14	1	22.02	22.20	21.42
		8	0	2	21.00	21.05	20.55
			4	2	20.95	21.12	20.56
			7	2	20.96	21.12	20.53
		15	0	2	20.99	21.15	20.54

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23035	23095	23155
5MHz	QPSK	1	0	0	22.94	23.11	22.64
			13	0	22.94	22.86	22.85
			24	0	23.07	22.99	22.74
		12	0	1	21.96	22.14	21.76
			6	1	21.96	22.14	21.79
			13	1	22.08	22.04	21.67
		25	0	1	21.99	22.13	21.74
	16QAM	1	0	1	21.89	22.28	21.61
			13	1	21.90	22.20	21.79
			24	1	21.92	22.09	21.58
		12	0	2	21.00	21.12	20.79
			6	2	20.96	21.19	20.80
			13	2	20.98	21.21	20.63
		25	0	2	20.97	21.08	20.77
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23060	23095	23130
10MHz	QPSK	1	0	0	23.21	23.50	22.87
			25	0	23.14	23.06	23.54
			49	0	23.41	23.14	22.98
		25	0	1	22.29	22.16	22.22
			13	1	22.30	22.31	21.87
			25	1	22.29	22.30	22.21
		50	0	1	22.24	22.16	22.02
	16QAM	1	0	1	22.29	21.85	21.68
			25	1	22.46	22.39	22.33
			49	1	22.20	21.89	21.79
		25	0	2	21.31	21.23	21.26
			13	2	21.25	21.31	21.26
			25	2	21.23	21.31	20.91
		50	0	2	21.21	21.14	21.09

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Conducted Power of LTE Band 13(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23205	23230	23255
5MHz	QPSK	1	0	0	22.34	22.16	22.50
			13	0	22.35	22.21	22.35
			24	0	22.44	22.37	22.50
		12	0	1	21.19	21.30	21.42
			6	1	21.26	21.26	21.41
			13	1	21.31	21.40	21.61
		25	0	1	21.47	21.31	21.54
	16QAM	1	0	1	21.32	21.36	21.31
			13	1	21.56	21.36	21.49
			24	1	21.37	21.51	21.52
		12	0	2	20.29	20.31	20.62
			6	2	20.36	20.36	20.56
			13	2	20.35	20.48	20.55
		25	0	2	20.42	20.29	20.61
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel		
					23230		
10MHz	QPSK	1	0	0	22.67		
			25	0	22.32		
			49	0	22.54		
		25	0	1	21.31		
			13	1	21.35		
			25	1	21.55		
		50	0	1	21.37		
	16QAM	1	0	1	21.68		
			25	1	21.68		
			49	1	21.32		
		25	0	2	20.19		
			13	2	20.19		
			25	2	20.62		
		50	0	2	20.43		

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Conducted Power of LTE Band 17(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23755	23790	23825
5MHz	QPSK	1	0	0	23.11	22.99	22.68
			13	0	23.16	23.00	22.86
			24	0	23.15	23.27	23.00
		12	0	1	22.12	22.12	21.70
			6	1	22.20	21.92	21.99
			13	1	22.07	22.11	21.97
		25	0	1	22.14	22.10	21.93
	16QAM	1	0	1	22.05	22.42	21.85
			13	1	22.09	22.25	21.78
			24	1	22.06	22.29	21.93
		12	0	2	21.20	21.19	21.02
			6	2	21.11	21.00	21.02
			13	2	21.11	21.20	20.79
		25	0	2	21.15	21.03	20.92
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23780	23790	23800
10MHz	QPSK	1	0	0	23.21	22.93	23.05
			25	0	23.41	23.09	23.14
			49	0	23.21	23.50	23.59
		25	0	1	22.37	22.32	21.92
			13	1	22.35	21.99	22.28
			25	1	21.97	22.33	22.25
		50	0	1	22.13	22.11	22.03
	16QAM	1	0	1	22.03	22.43	21.68
			25	1	22.05	21.77	21.66
			49	1	22.39	21.93	22.27
		25	0	2	21.33	21.33	21.24
			13	2	21.33	21.03	21.26
			25	2	21.01	21.28	20.88
		50	0	2	21.14	21.11	21.06

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Conducted Power of LTE Band 25(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26047	26365	26683
1.4MHz	QPSK	1	0	0	21.29	21.07	21.19
			2	0	21.32	21.08	21.09
			5	0	21.28	21.08	21.10
		3	0	0	21.30	21.11	21.16
			1	0	21.31	21.11	21.08
			3	0	21.29	21.09	21.16
		6	0	1	20.38	20.16	20.13
	16QAM	1	0	1	20.31	19.99	20.28
			2	1	20.23	19.95	19.98
			5	1	20.25	20.14	20.10
		3	0	1	20.16	19.88	20.20
			1	1	20.19	19.95	20.14
			3	1	20.11	19.96	20.14
		6	0	2	19.38	19.09	19.18
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26055	26365	26675
3MHz	QPSK	1	0	0	21.58	21.13	21.50
			8	0	21.53	21.19	21.68
			14	0	21.38	21.11	21.56
		8	0	1	20.37	20.13	20.20
			4	1	20.32	20.08	20.25
			8	1	20.40	20.06	20.24
		15	0	1	20.37	20.19	20.25
	16QAM	1	0	1	20.49	20.05	19.81
			8	1	20.36	19.97	19.95
			14	1	20.40	19.98	19.89
		8	0	2	19.37	19.05	19.24
			4	2	19.40	19.05	19.29
			8	2	19.36	19.07	19.25
		15	0	2	19.41	19.04	19.12

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Conducted Power of LTE Band 25(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26065	26365	26665
5MHz	QPSK	1	0	0	21.34	21.15	21.32
			12	0	21.47	21.31	21.12
			24	0	21.50	21.22	21.19
		12	0	1	20.39	20.15	20.27
			6	1	20.41	20.15	20.25
			13	1	20.37	20.07	20.25
		25	0	1	20.38	20.16	20.23
	16QAM	1	0	1	20.48	20.41	20.32
			12	1	20.38	20.24	20.48
			24	1	20.35	20.27	20.48
		12	0	2	19.42	19.20	19.30
			6	2	19.39	19.14	19.32
			13	2	19.39	19.18	19.31
		25	0	2	19.45	19.14	19.36
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26090	26365	26640
10MHz	QPSK	1	0	0	21.61	21.40	21.49
			24	0	21.60	21.38	21.75
			49	0	21.63	21.19	21.46
		25	0	1	20.42	20.19	20.20
			12	1	20.43	20.20	20.30
			25	1	20.44	20.19	20.17
		50	0	1	20.42	20.22	20.88
	16QAM	1	0	1	20.34	20.22	19.92
			24	1	20.55	20.26	20.14
			49	1	20.58	20.01	20.15
		25	0	2	19.44	19.22	19.28
			12	2	19.44	19.24	19.30
			25	2	19.51	19.24	19.27
		50	0	2	19.42	19.25	19.36

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Conducted Power of LTE Band 25(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26115	26365	26615
15MHz	QPSK	1	0	0	21.45	21.27	21.66
			38	0	21.47	21.38	21.40
			74	0	21.30	21.51	21.43
		38	0	1	20.54	20.76	20.17
			18	1	20.43	20.49	20.17
			37	1	20.47	20.59	20.01
		75	0	1	20.54	20.39	20.38
	16QAM	1	0	1	20.49	20.60	19.99
			38	1	20.57	20.48	20.06
			74	1	20.42	20.78	20.19
		38	0	2	20.53	20.52	20.05
			18	2	20.55	20.75	20.04
			37	2	20.38	20.50	20.14
		75	0	2	19.53	19.40	19.42
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26140	26365	26590
20MHz	QPSK	1	0	0	21.41	21.09	21.17
			49	0	21.46	21.70	21.27
			99	0	21.54	21.22	20.98
		50	0	1	20.49	20.42	20.31
			25	1	20.50	20.42	20.38
			50	1	20.56	20.26	20.37
		100	0	1	20.68	20.33	20.36
	16QAM	1	0	1	20.41	20.86	20.08
			49	1	20.37	20.66	19.87
			99	1	20.31	20.21	20.26
		50	0	2	19.59	19.41	19.39
			25	2	19.41	19.25	19.41
			50	2	19.43	19.41	19.42
		100	0	2	19.59	19.24	19.56

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Conducted Power of LTE Band 26A(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26797	26915	27033
1.4MHz	QPSK	1	0	0	23.57	22.96	23.13
			2	0	23.63	22.94	23.10
			5	0	23.63	22.97	22.97
		3	0	0	23.56	22.98	23.01
			1	0	23.53	22.94	23.05
			3	0	23.58	22.88	23.01
		6	0	1	22.61	21.98	22.05
	16QAM	1	0	1	22.49	21.91	21.93
			2	1	22.65	21.94	21.99
			5	1	22.61	21.90	21.85
		3	0	1	22.54	21.89	22.00
			1	1	22.55	21.88	22.01
			3	1	22.57	21.92	21.99
		6	0	2	21.46	21.03	20.97
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26805	26915	27025
3MHz	QPSK	1	0	0	23.80	23.21	23.23
			8	0	23.83	23.16	23.15
			14	0	23.69	23.26	23.02
		8	0	1	22.71	22.01	22.21
			4	1	22.69	21.95	22.22
			7	1	22.57	22.07	22.15
		15	0	1	22.74	21.99	22.24
	16QAM	1	0	1	22.71	22.00	22.09
			8	1	22.73	22.25	21.96
			14	1	22.68	22.10	21.81
		8	0	2	21.66	20.96	21.19
			4	2	21.70	20.96	21.18
			7	2	21.61	21.02	21.15
		15	0	2	21.72	21.05	21.12

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Conducted Power of LTE Band 26A(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26815	26915	27015
5MHz	QPSK	1	0	0	23.79	22.90	23.33
			12	0	23.74	23.14	23.16
			24	0	23.63	23.24	23.03
		12	0	1	22.70	22.03	22.36
			6	1	22.70	22.03	22.35
			13	1	22.60	22.11	22.16
		25	0	1	22.64	22.07	22.27
	16QAM	1	0	1	22.72	21.87	22.94
			12	1	22.70	22.12	22.44
			24	1	22.61	22.26	22.68
		12	0	2	21.71	21.00	21.36
			6	2	21.71	20.95	21.39
			13	2	21.59	21.08	21.30
		25	0	2	21.66	21.02	21.20
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26840	26915	26990
10MHz	QPSK	1	0	0	23.44	23.11	24.06
			24	0	22.92	23.03	23.85
			49	0	23.13	23.57	23.83
		25	0	1	21.96	21.95	22.40
			12	1	21.95	21.94	22.42
			25	1	21.91	22.34	22.42
		50	0	1	21.90	22.14	22.43
	16QAM	1	0	1	22.28	21.99	22.28
			24	1	21.84	21.91	22.13
			49	1	22.17	22.39	22.17
		25	0	2	20.87	20.98	21.46
			12	2	20.91	20.99	21.47
			25	2	20.96	21.39	21.35
		50	0	2	20.95	21.10	21.49

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Conducted Power of LTE Band 26A(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26865	26915	26965
15MHz	QPSK	1	0	0	23.93	23.16	23.37
			38	0	23.22	23.15	23.82
			74	0	<b>24.84</b>	23.80	23.89
		38	0	1	22.36	22.33	22.04
			18	1	21.97	22.26	22.07
			37	1	22.83	22.90	22.49
		75	0	1	22.16	22.37	22.41
	16QAM	1	0	1	22.33	22.42	22.06
			38	1	21.97	22.29	22.05
			74	1	22.80	22.85	22.38
		38	0	2	22.46	22.33	22.10
			18	2	21.96	22.25	22.08
			37	2	22.85	22.85	22.48
		75	0	2	21.15	21.43	21.38

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Conducted Power of LTE Band 26B(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26697	26740	26783
1.4MHz	QPSK	1	0	0	23.74	23.69	23.60
			2	0	23.62	23.70	23.67
			5	0	23.64	23.55	23.52
		3	0	0	23.83	23.67	23.61
			1	0	23.84	23.67	23.67
			3	0	23.74	23.52	23.56
		6	0	1	22.82	22.73	22.63
	16QAM	1	0	1	22.71	22.62	22.55
			2	1	22.67	22.64	22.62
			5	1	22.57	22.44	22.40
		3	0	1	22.64	22.59	22.56
			1	1	22.64	22.56	22.45
			3	1	22.62	22.48	22.35
		6	0	2	21.77	21.68	21.62
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26705	26740	26775
3MHz	QPSK	1	0	0	23.86	23.87	23.93
			8	0	23.81	24.00	23.81
			14	0	23.82	23.85	23.67
		8	0	1	22.85	22.74	22.70
			4	1	22.86	22.78	22.70
			7	1	22.81	22.64	22.73
		15	0	1	22.80	22.82	22.73
	16QAM	1	0	1	22.71	22.54	22.80
			8	1	22.62	22.59	22.77
			14	1	22.58	22.50	22.60
		8	0	2	21.82	21.75	21.69
			4	2	21.81	21.77	21.62
			7	2	21.74	21.70	21.72
		15	0	2	21.66	21.68	21.77

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Conducted Power of LTE Band 26B(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26715	26740	26765
5MHz	QPSK	1	0	0	23.85	23.83	23.81
			12	0	23.83	23.81	23.75
			24	0	23.85	23.73	23.66
		12	0	1	22.85	22.74	22.73
			6	1	22.80	22.75	22.74
			13	1	22.77	22.69	22.67
		25	0	1	22.88	22.83	22.72
	16QAM	1	0	1	23.06	22.89	22.71
			12	1	23.14	22.79	22.62
			24	1	23.05	22.73	22.64
		12	0	2	21.84	21.79	21.76
			6	2	21.84	21.79	21.75
			13	2	21.82	21.82	21.65
		25	0	2	21.77	21.81	21.63
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel		
					26740		
10MHz	QPSK	1	0	0	24.11		
			24	0	23.75		
			49	0	23.97		
		25	0	1	22.85		
			12	1	22.85		
			25	1	22.91		
		50	0	1	22.86		
	16QAM	1	0	1	22.99		
			24	1	22.62		
			49	1	22.83		
		25	0	2	21.92		
			12	2	21.89		
			25	2	21.85		
		50	0	2	21.91		

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Conducted Power of LTE Band 26B(dBm)					
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel
					26765
15MHz	QPSK	1	0	0	24.73
			38	0	24.35
			74	0	24.58
		38	0	1	23.30
			18	1	22.86
			37	1	23.15
		75	0	1	22.93
	16QAM	1	0	1	22.89
			38	1	23.33
			74	1	23.17
		38	0	2	23.30
			18	2	22.87
			37	2	23.16
		75	0	2	21.92

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Conducted Power of LTE Band 38 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37775	38000	38225
5MHz	QPSK	1	0	0	21.56	21.26	21.23
			12	0	21.37	21.19	21.41
			24	0	21.29	21.12	21.36
		12	0	1	20.46	20.20	20.32
			6	1	20.42	20.14	20.34
			13	1	20.37	20.14	20.21
		25	0	1	20.39	20.14	20.34
	16QAM	1	0	1	20.91	20.17	20.27
			12	1	20.66	20.09	20.36
			24	1	20.64	20.24	20.36
		12	0	2	19.52	19.13	19.30
			6	2	19.49	19.12	19.29
			13	2	19.33	19.22	19.21
		25	0	2	19.32	19.14	19.25
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37800	38000	38200
10MHz	QPSK	1	0	0	21.35	21.48	21.25
			24	0	21.62	21.55	21.63
			49	0	21.83	21.13	21.62
		25	0	1	20.45	20.34	20.31
			12	1	20.47	20.21	20.40
			25	1	20.40	20.16	20.33
		50	0	1	20.44	20.19	20.31
	16QAM	1	0	1	20.81	20.63	19.98
			24	1	20.71	20.59	20.26
			49	1	20.33	19.97	20.47
		25	0	2	19.41	19.35	19.36
			12	2	19.46	19.20	19.36
			25	2	19.46	19.21	19.33
		50	0	2	19.42	19.22	19.29

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### Conducted Power of LTE Band 38 (dBm)

Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37825	38000	38175
15MHz	QPSK	1	0	0	22.74	22.30	22.45
			38	0	22.28	22.29	22.51
			74	0	22.58	21.89	22.20
		37	0	1	21.77	21.36	21.17
			18	1	21.24	21.06	20.89
			37	1	21.58	21.53	21.17
		75	0	1	21.31	21.05	21.24
	16QAM	1	0	1	21.76	21.34	20.86
			38	1	21.39	21.05	21.15
			74	1	21.60	21.51	21.21
		37	0	2	21.35	21.53	21.22
			18	2	21.76	21.33	20.90
			37	2	21.57	21.07	21.24
		75	0	2	20.35	20.11	20.24
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37850	38000	38150
20MHz	QPSK	1	0	0	22.65	22.25	22.24
			49	0	22.30	22.68	22.27
			99	0	22.59	21.95	22.52
		50	0	1	21.34	21.23	21.14
			25	1	21.35	21.04	21.39
			49	1	21.37	21.06	21.15
		100	0	1	21.38	21.16	21.28
	16QAM	1	0	1	21.72	21.31	21.05
			49	1	21.78	20.94	21.18
			99	1	21.29	20.74	21.47
		50	0	2	20.38	20.28	20.13
			25	2	20.37	20.09	20.13
			49	2	20.38	20.11	20.36
		100	0	2	20.33	20.12	20.29

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Avg. Output Power of LTE Band 40(dBm) -Lower Side						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				38725	38750	38775
5MHz	QPSK	1	0	21.52	21.46	21.40
			12	21.56	21.43	21.63
			24	21.66	21.42	21.66
		12	0	20.53	20.53	20.64
			6	20.48	20.52	20.58
			13	20.52	20.52	20.71
		25	0	20.45	20.49	20.57
	16QAM	1	0	20.64	20.64	20.85
			12	20.47	20.52	20.90
			24	20.50	20.72	20.43
		12	0	19.46	19.53	19.65
			6	19.48	19.54	19.66
			13	19.47	19.46	19.67
		25	0	19.45	19.39	19.62
Bandwidth	Modulation	RB size	RB offset	Channel		
				38750		
10MHz	QPSK	1	0	21.71		
			24	21.78		
			49	21.36		
		25	0	20.65		
			12	20.55		
			25	20.54		
		50	0	20.55		
	16QAM	1	0	20.76		
			24	20.79		
			49	20.49		
		25	0	19.50		
			12	19.50		
			25	19.50		
		50	0	19.54		

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