

Appendix D-1. GSM/WCDMA Output Power

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

GSM850_Ant 0_Index 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.65	32.76	32.66	33.50	23.65	23.76	23.66	24.50
GPRS 1 Tx slot	32.66	32.79	32.70	33.50	23.66	23.79	23.70	24.50
GPRS 2 Tx slots	31.48	31.19	31.25	32.50	25.48	25.19	25.25	26.50
GPRS 3 Tx slots	30.71	30.36	30.27	31.50	26.45	26.10	26.01	27.24
GPRS 4 Tx slots	29.46	29.21	29.00	30.50	26.46	26.21	26.00	27.50
EDGE 1 Tx slot	26.64	26.69	26.65	27.50	17.64	17.69	17.65	18.50
EDGE 2 Tx slots	25.61	25.75	25.52	26.50	19.61	19.75	19.52	20.50
EDGE 3 Tx slots	24.54	24.60	24.36	25.50	20.28	20.34	20.10	21.24
EDGE 4 Tx slots	23.20	23.15	23.11	24.50	20.20	20.15	20.11	21.50

GSM850_Ant 0_Index 3	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.65	32.76	32.66	33.50	23.65	23.76	23.66	24.50
GPRS 1 Tx slot	32.66	32.79	32.70	33.50	23.66	23.79	23.70	24.50
GPRS 2 Tx slots	31.48	31.19	31.25	32.50	25.48	25.19	25.25	26.50
GPRS 3 Tx slots	30.71	30.36	30.27	31.50	26.45	26.10	26.01	27.24
GPRS 4 Tx slots	29.46	29.21	29.00	30.50	26.46	26.21	26.00	27.50
EDGE 1 Tx slot	26.64	26.69	26.65	27.50	17.64	17.69	17.65	18.50
EDGE 2 Tx slots	25.61	25.75	25.52	26.50	19.61	19.75	19.52	20.50
EDGE 3 Tx slots	24.54	24.60	24.36	25.50	20.28	20.34	20.10	21.24
EDGE 4 Tx slots	23.20	23.15	23.11	24.50	20.20	20.15	20.11	21.50

GSM850_Ant 0_Index 4	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.65	32.76	32.66	33.50	23.65	23.76	23.66	24.50
GPRS 1 Tx slot	32.66	32.79	32.70	33.50	23.66	23.79	23.70	24.50
GPRS 2 Tx slots	31.11	31.08	30.94	31.20	25.11	25.08	24.94	25.20
GPRS 3 Tx slots	29.01	29.00	28.75	29.40	24.75	24.74	24.49	25.14
GPRS 4 Tx slots	27.74	27.68	27.46	28.20	24.74	24.68	24.46	25.20
EDGE 1 Tx slot	26.64	26.69	26.65	27.50	17.64	17.69	17.65	18.50
EDGE 2 Tx slots	25.61	25.75	25.52	26.50	19.61	19.75	19.52	20.50
EDGE 3 Tx slots	24.54	24.60	24.36	25.50	20.28	20.34	20.10	21.24
EDGE 4 Tx slots	23.20	23.15	23.11	24.50	20.20	20.15	20.11	21.50

GSM850_Ant 0_Index 5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.65	32.76	32.66	33.50	23.65	23.76	23.66	24.50
GPRS 1 Tx slot	32.66	32.79	32.70	33.50	23.66	23.79	23.70	24.50
GPRS 2 Tx slots	31.11	31.08	30.94	31.90	25.11	25.08	24.94	25.90
GPRS 3 Tx slots	29.01	29.00	28.75	30.10	24.75	24.74	24.49	25.84
GPRS 4 Tx slots	27.74	27.68	27.46	28.90	24.74	24.68	24.46	25.90
EDGE 1 Tx slot	26.64	26.69	26.65	27.50	17.64	17.69	17.65	18.50
EDGE 2 Tx slots	25.61	25.75	25.52	26.50	19.61	19.75	19.52	20.50
EDGE 3 Tx slots	24.54	24.60	24.36	25.50	20.28	20.34	20.10	21.24
EDGE 4 Tx slots	23.20	23.15	23.11	24.50	20.20	20.15	20.11	21.50

GSM850_Ant 0_Index 6	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.65	32.76	32.66	33.50	23.65	23.76	23.66	24.50
GPRS 1 Tx slot	32.66	32.79	32.70	33.50	23.66	23.79	23.70	24.50
GPRS 2 Tx slots	31.11	31.08	30.94	31.20	25.11	25.08	24.94	25.20
GPRS 3 Tx slots	29.01	29.00	28.75	29.40	24.75	24.74	24.49	25.14
GPRS 4 Tx slots	27.74	27.68	27.46	28.20	24.74	24.68	24.46	25.20
EDGE 1 Tx slot	26.64	26.69	26.65	27.50	17.64	17.69	17.65	18.50
EDGE 2 Tx slots	25.61	25.75	25.52	26.50	19.61	19.75	19.52	20.50
EDGE 3 Tx slots	24.54	24.60	24.36	25.50	20.28	20.34	20.10	21.24
EDGE 4 Tx slots	23.20	23.15	23.11	24.50	20.20	20.15	20.11	21.50

GSM850_Ant 0_Index 7	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.65	32.76	32.66	33.50	23.65	23.76	23.66	24.50
GPRS 1 Tx slot	32.66	32.79	32.70	33.50	23.66	23.79	23.70	24.50
GPRS 2 Tx slots	31.48	31.19	31.25	32.50	25.48	25.19	25.25	26.50
GPRS 3 Tx slots	30.71	30.36	30.27	31.50	26.45	26.10	26.01	27.24
GPRS 4 Tx slots	29.46	29.21	29.00	30.50	26.46	26.21	26.00	27.50
EDGE 1 Tx slot	26.64	26.69	26.65	27.50	17.64	17.69	17.65	18.50
EDGE 2 Tx slots	25.61	25.75	25.52	26.50	19.61	19.75	19.52	20.50
EDGE 3 Tx slots	24.54	24.60	24.36	25.50	20.28	20.34	20.10	21.24
EDGE 4 Tx slots	23.20	23.15	23.11	24.50	20.20	20.15	20.11	21.50

GSM850_Ant 0_Index 9	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.65	32.76	32.66	33.50	23.65	23.76	23.66	24.50
GPRS 1 Tx slot	32.66	32.79	32.70	33.50	23.66	23.79	23.70	24.50
GPRS 2 Tx slots	31.48	31.19	31.25	32.50	25.48	25.19	25.25	26.50
GPRS 3 Tx slots	30.71	30.36	30.27	31.50	26.45	26.10	26.01	27.24
GPRS 4 Tx slots	29.46	29.21	29.00	30.40	26.46	26.21	26.00	27.40
EDGE 1 Tx slot	26.64	26.69	26.65	27.50	17.64	17.69	17.65	18.50
EDGE 2 Tx slots	25.61	25.75	25.52	26.50	19.61	19.75	19.52	20.50
EDGE 3 Tx slots	24.54	24.60	24.36	25.50	20.28	20.34	20.10	21.24
EDGE 4 Tx slots	23.20	23.15	23.11	24.50	20.20	20.15	20.11	21.50

GSM850_Ant 0_Index 10	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.65	32.76	32.66	33.50	23.65	23.76	23.66	24.50
GPRS 1 Tx slot	32.66	32.79	32.70	33.50	23.66	23.79	23.70	24.50
GPRS 2 Tx slots	31.48	31.19	31.25	32.50	25.48	25.19	25.25	26.50
GPRS 3 Tx slots	30.71	30.36	30.27	31.50	26.45	26.10	26.01	27.24
GPRS 4 Tx slots	29.46	29.21	29.00	30.50	26.46	26.21	26.00	27.50
EDGE 1 Tx slot	26.64	26.69	26.65	27.50	17.64	17.69	17.65	18.50
EDGE 2 Tx slots	25.61	25.75	25.52	26.50	19.61	19.75	19.52	20.50
EDGE 3 Tx slots	24.54	24.60	24.36	25.50	20.28	20.34	20.10	21.24
EDGE 4 Tx slots	23.20	23.15	23.11	24.50	20.20	20.15	20.11	21.50

GSM850_Ant 0_Index 11	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.65	32.76	32.66	33.50	23.65	23.76	23.66	24.50
GPRS 1 Tx slot	32.66	32.79	32.70	33.50	23.66	23.79	23.70	24.50
GPRS 2 Tx slots	31.48	31.19	31.25	32.50	25.48	25.19	25.25	26.50
GPRS 3 Tx slots	30.71	30.36	30.27	31.50	26.45	26.10	26.01	27.24
GPRS 4 Tx slots	29.46	29.21	29.00	30.40	26.46	26.21	26.00	27.40
EDGE 1 Tx slot	26.64	26.69	26.65	27.50	17.64	17.69	17.65	18.50
EDGE 2 Tx slots	25.61	25.75	25.52	26.50	19.61	19.75	19.52	20.50
EDGE 3 Tx slots	24.54	24.60	24.36	25.50	20.28	20.34	20.10	21.24
EDGE 4 Tx slots	23.20	23.15	23.11	24.50	20.20	20.15	20.11	21.50

GSM850_Ant 1_Index 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.18	31.36	31.10	32.70	22.18	22.36	22.10	23.70
GPRS 1 Tx slot	31.29	31.23	31.21	32.70	22.29	22.23	22.21	23.70
GPRS 2 Tx slots	28.59	28.45	28.18	29.70	22.59	22.45	22.18	23.70
GPRS 3 Tx slots	26.75	26.39	26.31	27.90	22.49	22.13	22.05	23.64
GPRS 4 Tx slots	25.95	25.84	25.74	26.70	22.95	22.84	22.74	23.70
EDGE 1 Tx slot	26.73	26.73	26.72	27.50	17.73	17.73	17.72	18.50
EDGE 2 Tx slots	25.86	25.71	25.63	26.50	19.86	19.71	19.63	20.50
EDGE 3 Tx slots	24.70	24.79	24.36	25.50	20.44	20.53	20.10	21.24
EDGE 4 Tx slots	23.23	23.32	22.87	24.50	20.23	20.32	19.87	21.50

GSM850_Ant 1_Index 3	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.18	31.36	31.10	32.00	22.18	22.36	22.10	23.00
GPRS 1 Tx slot	31.29	31.23	31.21	32.00	22.29	22.23	22.21	23.00
GPRS 2 Tx slots	28.59	28.45	28.18	29.00	22.59	22.45	22.18	23.00
GPRS 3 Tx slots	26.75	26.39	26.31	27.20	22.49	22.13	22.05	22.94
GPRS 4 Tx slots	25.95	25.84	25.74	26.00	22.95	22.84	22.74	23.00
EDGE 1 Tx slot	26.73	26.73	26.72	27.50	17.73	17.73	17.72	18.50
EDGE 2 Tx slots	25.86	25.71	25.63	26.50	19.86	19.71	19.63	20.50
EDGE 3 Tx slots	24.70	24.79	24.36	25.50	20.44	20.53	20.10	21.24
EDGE 4 Tx slots	23.23	23.32	22.87	24.50	20.23	20.32	19.87	21.50

GSM850_Ant 1_Index 4	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.66	32.77	32.60	33.50	23.66	23.77	23.60	24.50
GPRS 1 Tx slot	32.71	32.83	32.63	33.50	23.71	23.83	23.63	24.50
GPRS 2 Tx slots	31.62	31.45	31.17	32.50	25.62	25.45	25.17	26.50
GPRS 3 Tx slots	30.81	30.42	30.40	31.50	26.55	26.16	26.14	27.24
GPRS 4 Tx slots	29.68	29.26	29.20	30.50	26.68	26.26	26.20	27.50
EDGE 1 Tx slot	26.73	26.73	26.72	27.50	17.73	17.73	17.72	18.50
EDGE 2 Tx slots	25.86	25.71	25.63	26.50	19.86	19.71	19.63	20.50
EDGE 3 Tx slots	24.70	24.79	24.36	25.50	20.44	20.53	20.10	21.24
EDGE 4 Tx slots	23.23	23.32	22.87	24.50	20.23	20.32	19.87	21.50

GSM850_Ant 1_Index 5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.66	32.77	32.60	33.50	23.66	23.77	23.60	24.50
GPRS 1 Tx slot	32.71	32.83	32.63	33.50	23.71	23.83	23.63	24.50
GPRS 2 Tx slots	31.62	31.45	31.17	32.50	25.62	25.45	25.17	26.50
GPRS 3 Tx slots	30.81	30.42	30.40	31.50	26.55	26.16	26.14	27.24
GPRS 4 Tx slots	29.68	29.26	29.20	30.50	26.68	26.26	26.20	27.50
EDGE 1 Tx slot	26.73	26.73	26.72	27.50	17.73	17.73	17.72	18.50
EDGE 2 Tx slots	25.86	25.71	25.63	26.50	19.86	19.71	19.63	20.50
EDGE 3 Tx slots	24.70	24.79	24.36	25.50	20.44	20.53	20.10	21.24
EDGE 4 Tx slots	23.23	23.32	22.87	24.50	20.23	20.32	19.87	21.50

GSM850_Ant 1_Index 6	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.66	32.77	32.60	33.50	23.66	23.77	23.60	24.50
GPRS 1 Tx slot	32.71	32.83	32.63	33.50	23.71	23.83	23.63	24.50
GPRS 2 Tx slots	31.62	31.45	31.17	32.50	25.62	25.45	25.17	26.50
GPRS 3 Tx slots	30.81	30.42	30.40	31.50	26.55	26.16	26.14	27.24
GPRS 4 Tx slots	29.68	29.26	29.20	30.50	26.68	26.26	26.20	27.50
EDGE 1 Tx slot	26.73	26.73	26.72	27.50	17.73	17.73	17.72	18.50
EDGE 2 Tx slots	25.86	25.71	25.63	26.50	19.86	19.71	19.63	20.50
EDGE 3 Tx slots	24.70	24.79	24.36	25.50	20.44	20.53	20.10	21.24
EDGE 4 Tx slots	23.23	23.32	22.87	24.50	20.23	20.32	19.87	21.50

GSM850_Ant 1_Index 7	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.18	31.36	31.10	32.00	22.18	22.36	22.10	23.00
GPRS 1 Tx slot	31.29	31.23	31.21	32.00	22.29	22.23	22.21	23.00
GPRS 2 Tx slots	28.59	28.45	28.18	29.00	22.59	22.45	22.18	23.00
GPRS 3 Tx slots	26.75	26.39	26.31	27.20	22.49	22.13	22.05	22.94
GPRS 4 Tx slots	25.86	25.77	25.42	26.00	22.86	22.77	22.42	23.00
EDGE 1 Tx slot	26.73	26.73	26.72	27.50	17.73	17.73	17.72	18.50
EDGE 2 Tx slots	25.86	25.71	25.63	26.50	19.86	19.71	19.63	20.50
EDGE 3 Tx slots	24.70	24.79	24.36	25.50	20.44	20.53	20.10	21.24
EDGE 4 Tx slots	23.23	23.32	22.87	24.50	20.23	20.32	19.87	21.50

GSM850_Ant 1_Index 9	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.66	32.77	32.60	33.50	23.66	23.77	23.60	24.50
GPRS 1 Tx slot	32.71	32.83	32.63	33.50	23.71	23.83	23.63	24.50
GPRS 2 Tx slots	31.62	31.45	31.17	32.50	25.62	25.45	25.17	26.50
GPRS 3 Tx slots	30.81	30.42	30.40	31.50	26.55	26.16	26.14	27.24
GPRS 4 Tx slots	29.68	29.26	29.20	30.40	26.68	26.26	26.20	27.40
EDGE 1 Tx slot	26.73	26.73	26.72	27.50	17.73	17.73	17.72	18.50
EDGE 2 Tx slots	25.86	25.71	25.63	26.50	19.86	19.71	19.63	20.50
EDGE 3 Tx slots	24.70	24.79	24.36	25.50	20.44	20.53	20.10	21.24
EDGE 4 Tx slots	23.23	23.32	22.87	24.50	20.23	20.32	19.87	21.50

GSM850_Ant 1_Index 10	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.66	32.77	32.60	33.50	23.66	23.77	23.60	24.50
GPRS 1 Tx slot	32.71	32.83	32.63	33.50	23.71	23.83	23.63	24.50
GPRS 2 Tx slots	31.62	31.45	31.17	32.50	25.62	25.45	25.17	26.50
GPRS 3 Tx slots	30.81	30.42	30.40	31.50	26.55	26.16	26.14	27.24
GPRS 4 Tx slots	29.68	29.26	29.20	30.50	26.68	26.26	26.20	27.50
EDGE 1 Tx slot	26.73	26.73	26.72	27.50	17.73	17.73	17.72	18.50
EDGE 2 Tx slots	25.86	25.71	25.63	26.50	19.86	19.71	19.63	20.50
EDGE 3 Tx slots	24.70	24.79	24.36	25.50	20.44	20.53	20.10	21.24
EDGE 4 Tx slots	23.23	23.32	22.87	24.50	20.23	20.32	19.87	21.50

GSM850_Ant 1_Index 11	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.66	32.77	32.60	33.50	23.66	23.77	23.60	24.50
GPRS 1 Tx slot	32.71	32.83	32.63	33.50	23.71	23.83	23.63	24.50
GPRS 2 Tx slots	31.62	31.45	31.17	32.50	25.62	25.45	25.17	26.50
GPRS 3 Tx slots	30.81	30.42	30.40	31.50	26.55	26.16	26.14	27.24
GPRS 4 Tx slots	29.68	29.26	29.20	30.40	26.68	26.26	26.20	27.40
EDGE 1 Tx slot	26.73	26.73	26.72	27.50	17.73	17.73	17.72	18.50
EDGE 2 Tx slots	25.86	25.71	25.63	26.50	19.86	19.71	19.63	20.50
EDGE 3 Tx slots	24.70	24.79	24.36	25.50	20.44	20.53	20.10	21.24
EDGE 4 Tx slots	23.23	23.32	22.87	24.50	20.23	20.32	19.87	21.50

GSM1900_Ant 1_Index 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.66	29.57	29.56	30.50	20.66	20.57	20.56	21.50
GPRS 1 Tx slot	29.68	29.61	29.61	30.50	20.68	20.61	20.61	21.50
GPRS 2 Tx slots	27.69	27.51	27.38	29.00	21.69	21.51	21.38	23.00
GPRS 3 Tx slots	27.12	27.02	26.86	27.50	22.86	22.76	22.60	23.24
GPRS 4 Tx slots	25.04	25.07	24.98	26.30	22.04	22.07	21.98	23.30
EDGE 1 Tx slot	25.60	25.48	25.23	26.50	16.60	16.48	16.23	17.50
EDGE 2 Tx slots	24.17	23.99	23.76	25.50	18.17	17.99	17.76	19.50
EDGE 3 Tx slots	23.26	22.82	22.86	24.50	19.00	18.56	18.60	20.24
EDGE 4 Tx slots	22.26	22.17	21.81	23.50	19.26	19.17	18.81	20.50

GSM1900_Ant 1_Index 3	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.66	29.57	29.56	30.50	20.66	20.57	20.56	21.50
GPRS 1 Tx slot	29.68	29.61	29.61	30.50	20.68	20.61	20.61	21.50
GPRS 2 Tx slots	27.69	27.51	27.38	28.60	21.69	21.51	21.38	22.60
GPRS 3 Tx slots	27.12	27.02	26.86	26.80	22.86	22.76	22.60	22.54
GPRS 4 Tx slots	25.04	25.07	24.98	25.60	22.04	22.07	21.98	22.60
EDGE 1 Tx slot	25.60	25.48	25.23	26.50	16.60	16.48	16.23	17.50
EDGE 2 Tx slots	24.17	23.99	23.76	25.50	18.17	17.99	17.76	19.50
EDGE 3 Tx slots	23.26	22.82	22.86	24.50	19.00	18.56	18.60	20.24
EDGE 4 Tx slots	22.26	22.17	21.81	23.50	19.26	19.17	18.81	20.50

GSM1900_Ant 1_Index 4	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.66	29.57	29.56	30.50	20.66	20.57	20.56	21.50
GPRS 1 Tx slot	29.68	29.61	29.61	30.50	20.68	20.61	20.61	21.50
GPRS 2 Tx slots	27.69	27.51	27.38	29.00	21.69	21.51	21.38	23.00
GPRS 3 Tx slots	27.12	27.02	26.86	28.50	22.86	22.76	22.60	24.24
GPRS 4 Tx slots	26.35	25.98	25.85	27.50	23.35	22.98	22.85	24.50
EDGE 1 Tx slot	25.60	25.48	25.23	26.50	16.60	16.48	16.23	17.50
EDGE 2 Tx slots	24.17	23.99	23.76	25.50	18.17	17.99	17.76	19.50
EDGE 3 Tx slots	23.26	22.82	22.86	24.50	19.00	18.56	18.60	20.24
EDGE 4 Tx slots	22.26	22.17	21.81	23.50	19.26	19.17	18.81	20.50

GSM1900_Ant 1_Index 5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.66	29.57	29.56	30.50	20.66	20.57	20.56	21.50
GPRS 1 Tx slot	29.68	29.61	29.61	30.50	20.68	20.61	20.61	21.50
GPRS 2 Tx slots	27.69	27.51	27.38	29.00	21.69	21.51	21.38	23.00
GPRS 3 Tx slots	27.12	27.02	26.86	28.50	22.86	22.76	22.60	24.24
GPRS 4 Tx slots	26.35	25.98	25.85	27.50	23.35	22.98	22.85	24.50
EDGE 1 Tx slot	25.60	25.48	25.23	26.50	16.60	16.48	16.23	17.50
EDGE 2 Tx slots	24.17	23.99	23.76	25.50	18.17	17.99	17.76	19.50
EDGE 3 Tx slots	23.26	22.82	22.86	24.50	19.00	18.56	18.60	20.24
EDGE 4 Tx slots	22.26	22.17	21.81	23.50	19.26	19.17	18.81	20.50

GSM1900_Ant 1_Index 6	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.66	29.57	29.56	30.50	20.66	20.57	20.56	21.50
GPRS 1 Tx slot	29.68	29.61	29.61	30.50	20.68	20.61	20.61	21.50
GPRS 2 Tx slots	27.69	27.51	27.38	29.00	21.69	21.51	21.38	23.00
GPRS 3 Tx slots	27.12	27.02	26.86	28.50	22.86	22.76	22.60	24.24
GPRS 4 Tx slots	26.35	25.98	25.85	27.50	23.35	22.98	22.85	24.50
EDGE 1 Tx slot	25.60	25.48	25.23	26.50	16.60	16.48	16.23	17.50
EDGE 2 Tx slots	24.17	23.99	23.76	25.50	18.17	17.99	17.76	19.50
EDGE 3 Tx slots	23.26	22.82	22.86	24.50	19.00	18.56	18.60	20.24
EDGE 4 Tx slots	22.26	22.17	21.81	23.50	19.26	19.17	18.81	20.50

GSM1900_Ant 1_Index 7	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.25	26.11	26.11	26.70	17.25	17.11	17.11	17.70
GPRS 1 Tx slot	26.19	26.18	26.19	26.70	17.19	17.18	17.19	17.70
GPRS 2 Tx slots	23.09	23.05	22.97	23.70	17.09	17.05	16.97	17.70
GPRS 3 Tx slots	21.58	21.44	21.37	21.90	17.32	17.18	17.11	17.64
GPRS 4 Tx slots	20.44	20.37	20.16	20.70	17.44	17.37	17.16	17.70
EDGE 1 Tx slot	25.60	25.48	25.23	26.50	16.60	16.48	16.23	17.50
EDGE 2 Tx slots	23.23	23.09	22.83	23.70	17.23	17.09	16.83	17.70
EDGE 3 Tx slots	21.75	21.26	21.30	21.90	17.49	17.00	17.04	17.64
EDGE 4 Tx slots	20.17	20.17	19.74	20.70	17.17	17.17	16.74	17.70

GSM1900_Ant 1_Index 9	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.76	28.51	28.46	29.20	19.76	19.51	19.46	20.20
GPRS 1 Tx slot	28.70	28.66	28.58	29.20	19.70	19.66	19.58	20.20
GPRS 2 Tx slots	26.16	25.93	25.82	26.20	20.16	19.93	19.82	20.20
GPRS 3 Tx slots	24.22	24.08	23.88	24.40	19.96	19.82	19.62	20.14
GPRS 4 Tx slots	22.92	22.84	22.65	23.20	19.92	19.84	19.65	20.20
EDGE 1 Tx slot	25.60	25.48	25.23	26.50	16.60	16.48	16.23	17.50
EDGE 2 Tx slots	24.17	23.99	23.76	25.50	18.17	17.99	17.76	19.50
EDGE 3 Tx slots	23.26	22.82	22.86	24.40	19.00	18.56	18.60	20.14
EDGE 4 Tx slots	22.26	22.17	21.81	23.20	19.26	19.17	18.81	20.20

GSM1900_Ant 1_Index 10	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.66	29.57	29.56	30.50	20.66	20.57	20.56	21.50
GPRS 1 Tx slot	29.68	29.61	29.61	30.50	20.68	20.61	20.61	21.50
GPRS 2 Tx slots	27.69	27.51	27.38	28.50	21.69	21.51	21.38	22.50
GPRS 3 Tx slots	25.55	25.53	25.26	26.70	21.29	21.27	21.00	22.44
GPRS 4 Tx slots	24.43	24.32	24.10	25.50	21.43	21.32	21.10	22.50
EDGE 1 Tx slot	25.60	25.48	25.23	26.50	16.60	16.48	16.23	17.50
EDGE 2 Tx slots	24.17	23.99	23.76	25.50	18.17	17.99	17.76	19.50
EDGE 3 Tx slots	23.26	22.82	22.86	24.50	19.00	18.56	18.60	20.24
EDGE 4 Tx slots	22.26	22.17	21.81	23.50	19.26	19.17	18.81	20.50

GSM1900_Ant 1_Index 11	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.66	29.57	29.56	30.50	20.66	20.57	20.56	21.50
GPRS 1 Tx slot	29.68	29.61	29.61	30.50	20.68	20.61	20.61	21.50
GPRS 2 Tx slots	27.69	27.51	27.38	27.80	21.69	21.51	21.38	21.80
GPRS 3 Tx slots	25.55	25.53	25.26	26.00	21.29	21.27	21.00	21.74
GPRS 4 Tx slots	24.43	24.32	24.10	24.80	21.43	21.32	21.10	21.80
EDGE 1 Tx slot	25.60	25.48	25.23	26.50	16.60	16.48	16.23	17.50
EDGE 2 Tx slots	24.17	23.99	23.76	25.50	18.17	17.99	17.76	19.50
EDGE 3 Tx slots	23.26	22.82	22.86	24.50	19.00	18.56	18.60	20.24
EDGE 4 Tx slots	22.26	22.17	21.81	23.50	19.26	19.17	18.81	20.50

GSM1900_Ant 2_Index 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.46	29.79	29.75	30.50	20.46	20.79	20.75	21.50
GPRS 1 Tx slot	29.50	29.81	29.79	30.50	20.50	20.81	20.79	21.50
GPRS 2 Tx slots	27.50	27.68	27.59	29.00	21.50	21.68	21.59	23.00
GPRS 3 Tx slots	27.03	27.20	27.10	28.50	22.77	22.94	22.84	24.24
GPRS 4 Tx slots	26.16	26.43	26.27	27.50	23.16	23.43	23.27	24.50
EDGE 1 Tx slot	25.32	25.68	25.60	26.50	16.32	16.68	16.60	17.50
EDGE 2 Tx slots	24.31	24.02	24.16	25.50	18.31	18.02	18.16	19.50
EDGE 3 Tx slots	23.22	23.08	22.74	24.50	18.96	18.82	18.48	20.24
EDGE 4 Tx slots	22.17	22.14	22.01	23.50	19.17	19.14	19.01	20.50

GSM1900_Ant 2_Index 3	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.46	29.79	29.75	30.50	20.46	20.79	20.75	21.50
GPRS 1 Tx slot	29.50	29.81	29.79	30.50	20.50	20.81	20.79	21.50
GPRS 2 Tx slots	27.50	27.68	27.59	29.00	21.50	21.68	21.59	23.00
GPRS 3 Tx slots	27.03	27.20	27.10	28.50	22.77	22.94	22.84	24.24
GPRS 4 Tx slots	26.16	26.43	26.27	27.50	23.16	23.43	23.27	24.50
EDGE 1 Tx slot	25.32	25.68	25.60	26.50	16.32	16.68	16.60	17.50
EDGE 2 Tx slots	24.31	24.02	24.16	25.50	18.31	18.02	18.16	19.50
EDGE 3 Tx slots	23.22	23.08	22.74	24.50	18.96	18.82	18.48	20.24
EDGE 4 Tx slots	22.17	22.14	22.01	23.50	19.17	19.14	19.01	20.50

GSM1900_Ant 2_Index 4	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.65	26.63	26.55	26.90	17.65	17.63	17.55	17.90
GPRS 1 Tx slot	26.67	26.83	26.61	26.90	17.67	17.83	17.61	17.90
GPRS 2 Tx slots	23.52	23.38	23.25	23.90	17.52	17.38	17.25	17.90
GPRS 3 Tx slots	22.01	21.97	21.94	22.10	17.75	17.71	17.68	17.84
GPRS 4 Tx slots	20.76	20.86	20.79	20.90	17.76	17.86	17.79	17.90
EDGE 1 Tx slot	26.50	26.50	26.50	26.50	17.50	17.50	17.50	17.50
EDGE 2 Tx slots	24.12	23.83	23.81	23.90	18.12	17.83	17.81	17.90
EDGE 3 Tx slots	22.08	21.84	21.76	22.10	17.82	17.58	17.50	17.84
EDGE 4 Tx slots	20.85	20.71	20.37	20.90	17.85	17.71	17.37	17.90

GSM1900_Ant 2_Index 5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.65	26.63	26.55	27.60	17.65	17.63	17.55	18.60
GPRS 1 Tx slot	26.67	26.83	26.61	27.60	17.67	17.83	17.61	18.60
GPRS 2 Tx slots	23.52	23.38	23.25	24.60	17.52	17.38	17.25	18.60
GPRS 3 Tx slots	22.01	21.97	21.94	22.80	17.75	17.71	17.68	18.54
GPRS 4 Tx slots	20.76	20.86	20.79	21.60	17.76	17.86	17.79	18.60
EDGE 1 Tx slot	26.50	26.50	26.50	26.50	17.50	17.50	17.50	17.50
EDGE 2 Tx slots	24.12	23.83	23.81	24.60	18.12	17.83	17.81	18.60
EDGE 3 Tx slots	22.08	21.84	21.76	22.80	17.82	17.58	17.50	18.54
EDGE 4 Tx slots	20.85	20.71	20.37	21.60	17.85	17.71	17.37	18.60

GSM1900_Ant 2_Index 6	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.65	26.63	26.55	26.90	17.65	17.63	17.55	17.90
GPRS 1 Tx slot	26.67	26.83	26.61	26.90	17.67	17.83	17.61	17.90
GPRS 2 Tx slots	23.52	23.38	23.25	23.90	17.52	17.38	17.25	17.90
GPRS 3 Tx slots	22.01	21.97	21.94	22.10	17.75	17.71	17.68	17.84
GPRS 4 Tx slots	20.76	20.86	20.79	20.90	17.76	17.86	17.79	17.90
EDGE 1 Tx slot	26.50	26.50	26.50	26.50	17.50	17.50	17.50	17.50
EDGE 2 Tx slots	24.12	23.83	23.81	23.90	18.12	17.83	17.81	17.90
EDGE 3 Tx slots	22.08	21.84	21.76	22.10	17.82	17.58	17.50	17.84
EDGE 4 Tx slots	20.85	20.71	20.37	20.90	17.85	17.71	17.37	17.90

GSM1900_Ant 2_Index 7	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.46	29.79	29.75	30.50	20.46	20.79	20.75	21.50
GPRS 1 Tx slot	29.50	29.81	29.79	30.50	20.50	20.81	20.79	21.50
GPRS 2 Tx slots	27.50	27.68	27.59	29.00	21.50	21.68	21.59	23.00
GPRS 3 Tx slots	27.03	27.20	27.10	28.50	22.77	22.94	22.84	24.24
GPRS 4 Tx slots	26.16	26.43	26.27	27.50	23.16	23.43	23.27	24.50
EDGE 1 Tx slot	25.32	25.68	25.60	26.50	16.32	16.68	16.60	17.50
EDGE 2 Tx slots	24.31	24.02	24.16	25.50	18.31	18.02	18.16	19.50
EDGE 3 Tx slots	23.22	23.08	22.74	24.50	18.96	18.82	18.48	20.24
EDGE 4 Tx slots	22.17	22.14	22.01	23.50	19.17	19.14	19.01	20.50

GSM1900_Ant 2_Index 9	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.06	26.22	26.22	26.30	17.06	17.22	17.22	17.30
GPRS 1 Tx slot	25.93	26.28	26.19	26.30	16.93	17.28	17.19	17.30
GPRS 2 Tx slots	22.92	23.13	23.17	23.30	16.92	17.13	17.17	17.30
GPRS 3 Tx slots	21.00	21.22	21.11	21.50	16.74	16.96	16.85	17.24
GPRS 4 Tx slots	19.94	20.11	19.93	20.30	16.94	17.11	16.93	17.30
EDGE 1 Tx slot	25.32	25.68	25.60	26.30	16.32	16.68	16.60	17.30
EDGE 2 Tx slots	23.30	23.09	23.25	23.30	17.30	17.09	17.25	17.30
EDGE 3 Tx slots	21.47	21.46	21.19	21.50	17.21	17.20	16.93	17.24
EDGE 4 Tx slots	20.17	20.10	19.97	20.30	17.17	17.10	16.97	17.30

GSM1900_Ant 2_Index 10	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.06	26.22	26.22	27.20	17.06	17.22	17.22	18.20
GPRS 1 Tx slot	25.93	26.28	26.19	27.20	16.93	17.28	17.19	18.20
GPRS 2 Tx slots	22.92	23.13	23.17	24.20	16.92	17.13	17.17	18.20
GPRS 3 Tx slots	21.00	21.22	21.11	22.40	16.74	16.96	16.85	18.14
GPRS 4 Tx slots	19.94	20.11	19.93	21.20	16.94	17.11	16.93	18.20
EDGE 1 Tx slot	25.32	25.68	25.60	26.50	16.32	16.68	16.60	17.50
EDGE 2 Tx slots	23.30	23.09	23.25	24.20	17.30	17.09	17.25	18.20
EDGE 3 Tx slots	21.47	21.46	21.19	22.40	17.21	17.20	16.93	18.14
EDGE 4 Tx slots	20.17	20.10	19.97	21.20	17.17	17.10	16.97	18.20

GSM1900_Ant 2_Index 11	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.06	26.22	26.22	26.50	17.06	17.22	17.22	17.50
GPRS 1 Tx slot	25.93	26.28	26.19	26.50	16.93	17.28	17.19	17.50
GPRS 2 Tx slots	22.92	23.13	23.17	23.50	16.92	17.13	17.17	17.50
GPRS 3 Tx slots	21.00	21.22	21.11	21.70	16.74	16.96	16.85	17.44
GPRS 4 Tx slots	19.94	20.11	19.93	20.50	16.94	17.11	16.93	17.50
EDGE 1 Tx slot	25.32	25.68	25.60	26.50	16.32	16.68	16.60	17.50
EDGE 2 Tx slots	23.30	23.09	23.25	23.50	17.30	17.09	17.25	17.50
EDGE 3 Tx slots	21.47	21.46	21.19	21.70	17.21	17.20	16.93	17.44
EDGE 4 Tx slots	20.17	20.10	19.97	20.50	17.17	17.10	16.97	17.50

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration

<WCDMA Conducted Power>
General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA .

Band		WCDMA II_Ant 2_Index 2			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 2			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 2			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	24.08	24.08	23.91	25.00	24.03	23.87	23.86	25.00	24.55	24.54	24.38	25.00
3GPP Rel 99	RMC 12.2Kbps	24.08	24.11	23.94	25.00	24.04	23.89	23.90	25.00	24.56	24.57	24.42	25.00
3GPP Rel 6	HSDPA Subtest-1	24.10	24.10	23.67	25.00	23.81	23.85	23.87	25.00	24.45	24.38	24.52	25.00
3GPP Rel 6	HSDPA Subtest-2	24.10	24.05	23.98	25.00	24.00	23.89	23.79	25.00	24.48	24.52	24.52	25.00
3GPP Rel 6	HSDPA Subtest-3	24.10	24.05	23.94	24.50	24.00	23.88	23.77	24.50	24.25	24.23	24.15	24.50
3GPP Rel 6	HSDPA Subtest-4	24.04	24.00	23.89	24.50	24.02	23.72	23.81	24.50	24.30	24.29	24.09	24.50
3GPP Rel 6	HSUPA Subtest-1	23.05	23.07	23.00	25.00	23.03	23.08	23.03	25.00	23.66	23.48	23.31	25.00
3GPP Rel 6	HSUPA Subtest-2	22.50	22.65	22.35	23.00	22.92	22.65	22.72	23.00	22.23	22.12	21.95	23.00
3GPP Rel 6	HSUPA Subtest-3	23.03	22.99	22.88	24.00	23.05	22.99	22.76	24.00	23.51	23.36	23.24	24.00
3GPP Rel 6	HSUPA Subtest-4	22.51	22.21	22.27	23.00	22.96	22.92	22.84	23.00	22.44	22.33	22.31	23.00
3GPP Rel 6	HSUPA Subtest-5	24.00	24.10	23.90	25.00	24.00	23.90	23.90	25.00	24.50	24.50	24.40	25.00

Band		WCDMA II_Ant 2_Index 3			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 3			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 3			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	24.08	24.08	23.91	25.00	24.03	23.87	23.86	25.00	24.55	24.54	24.38	25.00
3GPP Rel 99	RMC 12.2Kbps	24.08	24.11	23.94	25.00	24.04	23.89	23.90	25.00	24.56	24.57	24.42	25.00
3GPP Rel 6	HSDPA Subtest-1	24.10	24.10	23.67	25.00	23.81	23.85	23.87	25.00	24.45	24.38	24.52	25.00
3GPP Rel 6	HSDPA Subtest-2	24.10	24.05	23.98	25.00	24.00	23.89	23.79	25.00	24.48	24.52	24.52	25.00
3GPP Rel 6	HSDPA Subtest-3	24.10	24.05	23.94	24.50	24.00	23.88	23.77	24.50	24.25	24.23	24.15	24.50
3GPP Rel 6	HSDPA Subtest-4	24.04	24.00	23.89	24.50	24.02	23.72	23.81	24.50	24.30	24.29	24.09	24.50
3GPP Rel 6	HSUPA Subtest-1	23.05	23.07	23.00	25.00	23.03	23.08	23.03	25.00	23.66	23.48	23.31	25.00
3GPP Rel 6	HSUPA Subtest-2	22.50	22.65	22.35	23.00	22.92	22.65	22.72	23.00	22.23	22.12	21.95	23.00
3GPP Rel 6	HSUPA Subtest-3	23.03	22.99	22.88	24.00	23.05	22.99	22.76	24.00	23.51	23.36	23.24	24.00
3GPP Rel 6	HSUPA Subtest-4	22.51	22.21	22.27	23.00	22.96	22.92	22.84	23.00	22.44	22.33	22.31	23.00
3GPP Rel 6	HSUPA Subtest-5	24.00	24.10	23.90	25.00	24.00	23.90	23.90	25.00	24.50	24.50	24.40	25.00

Band		WCDMA II_Ant 2_Index 4			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 4			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 4			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	18.40	18.42	18.22	18.50	18.38	18.42	18.30	18.50	24.55	24.54	24.38	25.00
3GPP Rel 99	RMC 12.2Kbps	18.46	18.47	18.29	18.50	18.42	18.47	18.34	18.50	24.56	24.57	24.42	25.00
3GPP Rel 6	HSDPA Subtest-1	18.43	18.31	18.20	18.50	18.40	18.43	18.40	18.50	24.45	24.38	24.52	25.00
3GPP Rel 6	HSDPA Subtest-2	18.44	18.35	18.25	18.50	18.35	18.37	18.42	18.50	24.48	24.52	24.52	25.00
3GPP Rel 6	HSDPA Subtest-3	18.46	18.36	18.21	18.50	18.35	18.32	18.40	18.50	24.25	24.23	24.15	24.50
3GPP Rel 6	HSDPA Subtest-4	18.46	18.39	18.20	18.50	18.38	18.42	18.30	18.50	24.30	24.29	24.09	24.50
3GPP Rel 6	HSUPA Subtest-1	17.10	17.16	17.44	17.50	17.32	17.31	17.30	17.50	23.66	23.48	23.31	25.00
3GPP Rel 6	HSUPA Subtest-2	17.16	17.27	17.46	17.50	17.45	17.40	17.44	17.50	22.23	22.12	21.95	23.00
3GPP Rel 6	HSUPA Subtest-3	17.10	17.20	17.46	17.50	17.40	17.32	17.40	17.50	23.51	23.36	23.24	24.00
3GPP Rel 6	HSUPA Subtest-4	17.11	17.23	17.46	17.50	17.42	17.35	17.42	17.50	22.44	22.33	22.31	23.00
3GPP Rel 6	HSUPA Subtest-5	17.90	17.80	18.10	18.50	18.32	18.30	18.30	18.50	24.50	24.50	24.40	25.00

Band		WCDMA II_Ant 2_Index 5			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 5			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 5			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	18.40	18.42	18.22	19.70	18.38	18.42	18.30	19.20	24.55	24.54	24.38	25.00
3GPP Rel 99	RMC 12.2Kbps	18.46	18.47	18.29	19.70	18.42	18.47	18.34	19.20	24.56	24.57	24.42	25.00
3GPP Rel 6	HSDPA Subtest-1	18.43	18.31	18.20	19.70	18.40	18.43	18.40	19.20	24.45	24.38	24.52	25.00
3GPP Rel 6	HSDPA Subtest-2	18.44	18.35	18.25	19.70	18.35	18.37	18.42	19.20	24.48	24.52	24.52	25.00
3GPP Rel 6	HSDPA Subtest-3	18.46	18.36	18.21	19.70	18.35	18.32	18.40	19.20	24.25	24.23	24.15	24.50
3GPP Rel 6	HSDPA Subtest-4	18.46	18.39	18.20	19.70	18.38	18.42	18.30	19.20	24.30	24.29	24.09	24.50
3GPP Rel 6	HSUPA Subtest-1	17.10	17.16	17.44	18.70	17.32	17.31	17.30	18.20	23.66	23.48	23.31	25.00
3GPP Rel 6	HSUPA Subtest-2	17.16	17.27	17.46	18.70	17.45	17.40	17.44	18.20	22.23	22.12	21.95	23.00
3GPP Rel 6	HSUPA Subtest-3	17.10	17.20	17.46	18.70	17.40	17.32	17.40	18.20	23.51	23.36	23.24	24.00
3GPP Rel 6	HSUPA Subtest-4	17.11	17.23	17.46	18.70	17.42	17.35	17.42	18.20	22.44	22.33	22.31	23.00
3GPP Rel 6	HSUPA Subtest-5	17.90	17.80	18.10	19.70	18.32	18.30	18.30	19.20	24.50	24.50	24.40	25.00

Band		WCDMA II_Ant 2_Index 6			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 6			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 6			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	18.40	18.42	18.22	19.00	18.38	18.42	18.30	18.50	24.55	24.54	24.38	25.00
3GPP Rel 99	RMC 12.2Kbps	18.46	18.47	18.29	19.00	18.42	18.47	18.34	18.50	24.56	24.57	24.42	25.00
3GPP Rel 6	HSDPA Subtest-1	18.43	18.31	18.20	19.00	18.40	18.43	18.40	18.50	24.45	24.38	24.52	25.00
3GPP Rel 6	HSDPA Subtest-2	18.44	18.35	18.25	19.00	18.35	18.37	18.42	18.50	24.48	24.52	24.52	25.00
3GPP Rel 6	HSDPA Subtest-3	18.46	18.36	18.21	19.00	18.35	18.32	18.40	18.50	24.25	24.23	24.15	24.50
3GPP Rel 6	HSDPA Subtest-4	18.46	18.39	18.20	19.00	18.38	18.42	18.30	18.50	24.30	24.29	24.09	24.50
3GPP Rel 6	HSUPA Subtest-1	17.10	17.16	17.44	18.00	17.32	17.31	17.30	17.50	23.66	23.48	23.31	25.00
3GPP Rel 6	HSUPA Subtest-2	17.16	17.27	17.46	18.00	17.45	17.40	17.44	17.50	22.23	22.12	21.95	23.00
3GPP Rel 6	HSUPA Subtest-3	17.10	17.20	17.46	18.00	17.40	17.32	17.40	17.50	23.51	23.36	23.24	24.00
3GPP Rel 6	HSUPA Subtest-4	17.11	17.23	17.46	18.00	17.42	17.35	17.42	17.50	22.44	22.33	22.31	23.00
3GPP Rel 6	HSUPA Subtest-5	17.90	17.80	18.10	19.00	18.32	18.30	18.30	18.50	24.50	24.50	24.40	25.00

Band		WCDMA II_Ant 2_Index 7			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 7			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 7			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	24.08	24.08	23.91	25.00	24.03	23.87	23.86	25.00	24.55	24.54	24.38	25.00
3GPP Rel 99	RMC 12.2Kbps	24.08	24.11	23.94	25.00	24.04	23.89	23.90	25.00	24.56	24.57	24.42	25.00
3GPP Rel 6	HSDPA Subtest-1	24.10	24.10	23.67	25.00	23.81	23.85	23.87	25.00	24.45	24.38	24.52	25.00
3GPP Rel 6	HSDPA Subtest-2	24.10	24.05	23.98	25.00	24.00	23.89	23.79	25.00	24.48	24.52	24.52	25.00
3GPP Rel 6	HSDPA Subtest-3	24.10	24.05	23.94	24.50	24.00	23.88	23.77	24.50	24.25	24.23	24.15	24.50
3GPP Rel 6	HSDPA Subtest-4	24.04	24.00	23.89	24.50	24.02	23.72	23.81	24.50	24.30	24.29	24.09	24.50
3GPP Rel 6	HSUPA Subtest-1	23.05	23.07	23.00	25.00	23.03	23.08	23.03	25.00	23.66	23.48	23.31	25.00
3GPP Rel 6	HSUPA Subtest-2	22.50	22.65	22.35	23.00	22.92	22.65	22.72	23.00	22.23	22.12	21.95	23.00
3GPP Rel 6	HSUPA Subtest-3	23.03	22.99	22.88	24.00	23.05	22.99	22.76	24.00	23.51	23.36	23.24	24.00
3GPP Rel 6	HSUPA Subtest-4	22.51	22.21	22.27	23.00	22.96	22.92	22.84	23.00	22.44	22.33	22.31	23.00
3GPP Rel 6	HSUPA Subtest-5	24.00	24.10	23.90	25.00	24.00	23.90	23.90	25.00	24.50	24.50	24.40	25.00

Band		WCDMA II_Ant 2_Index 9			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 9			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 9			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	16.72	16.77	16.60	17.30	19.25	19.21	19.08	19.50	24.55	24.54	24.38	25.00
3GPP Rel 99	RMC 12.2Kbps	16.78	16.79	16.63	17.30	19.27	19.25	19.14	19.50	24.56	24.57	24.42	25.00
3GPP Rel 6	HSDPA Subtest-1	16.24	16.33	16.63	17.30	19.19	19.16	18.88	19.50	24.45	24.38	24.52	25.00
3GPP Rel 6	HSDPA Subtest-2	16.32	16.41	16.67	17.30	19.13	19.10	19.10	19.50	24.48	24.52	24.52	25.00
3GPP Rel 6	HSDPA Subtest-3	16.29	16.43	16.67	17.30	19.01	19.08	19.16	19.50	24.25	24.23	24.15	24.50
3GPP Rel 6	HSDPA Subtest-4	16.34	16.46	16.70	17.30	19.26	18.95	19.02	19.50	24.30	24.29	24.09	24.50
3GPP Rel 6	HSUPA Subtest-1	15.31	15.43	15.79	16.30	18.12	18.00	18.09	18.50	23.66	23.48	23.31	25.00
3GPP Rel 6	HSUPA Subtest-2	15.42	15.58	15.85	16.30	18.11	17.92	17.96	18.50	22.23	22.12	21.95	23.00
3GPP Rel 6	HSUPA Subtest-3	15.32	15.46	15.80	16.30	18.14	18.06	18.09	18.50	23.51	23.36	23.24	24.00
3GPP Rel 6	HSUPA Subtest-4	15.37	15.51	15.84	16.30	18.06	17.96	17.96	18.50	22.44	22.33	22.31	23.00
3GPP Rel 6	HSUPA Subtest-5	16.20	16.30	16.60	17.30	19.10	19.00	19.10	19.50	24.50	24.50	24.40	25.00

Band		WCDMA II_Ant 2_Index 10			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 10			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 10			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	17.75	17.72	17.53	18.90	19.25	19.21	19.08	20.30	24.55	24.54	24.38	25.00
3GPP Rel 99	RMC 12.2Kbps	17.76	17.78	17.59	18.90	19.27	19.25	19.14	20.30	24.56	24.57	24.42	25.00
3GPP Rel 6	HSDPA Subtest-1	16.98	17.07	17.41	18.90	19.19	19.16	18.88	20.30	24.45	24.38	24.52	25.00
3GPP Rel 6	HSDPA Subtest-2	17.04	17.15	17.47	18.90	19.13	19.10	19.10	20.30	24.48	24.52	24.52	25.00
3GPP Rel 6	HSDPA Subtest-3	17.04	17.14	17.44	18.90	19.01	19.08	19.16	20.30	24.25	24.23	24.15	24.50
3GPP Rel 6	HSDPA Subtest-4	17.07	17.20	17.48	18.90	19.26	18.95	19.02	20.30	24.30	24.29	24.09	24.50
3GPP Rel 6	HSUPA Subtest-1	16.24	16.36	16.66	17.90	18.12	18.00	18.09	19.30	23.66	23.48	23.31	25.00
3GPP Rel 6	HSUPA Subtest-2	16.32	16.48	16.66	17.90	18.11	17.92	17.96	19.30	22.23	22.12	21.95	23.00
3GPP Rel 6	HSUPA Subtest-3	16.27	16.39	16.66	17.90	18.14	18.06	18.09	19.30	23.51	23.36	23.24	24.00
3GPP Rel 6	HSUPA Subtest-4	16.32	16.44	16.65	17.90	18.06	17.96	17.96	19.30	22.44	22.33	22.31	23.00
3GPP Rel 6	HSUPA Subtest-5	17.00	17.10	17.40	18.90	19.10	19.00	19.10	20.30	24.50	24.50	24.40	25.00

Band		WCDMA II_Ant 2_Index 11			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 11			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 11			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	17.75	17.72	17.53	18.20	19.25	19.21	19.08	19.60	24.55	24.54	24.38	25.00
3GPP Rel 99	RMC 12.2Kbps	17.76	17.78	17.59	18.20	19.27	19.25	19.14	19.60	24.56	24.57	24.42	25.00
3GPP Rel 6	HSDPA Subtest-1	16.98	17.07	17.41	18.20	19.19	19.16	18.88	19.60	24.45	24.38	24.52	25.00
3GPP Rel 6	HSDPA Subtest-2	17.04	17.15	17.47	18.20	19.13	19.10	19.10	19.60	24.48	24.52	24.52	25.00
3GPP Rel 6	HSDPA Subtest-3	17.04	17.14	17.44	18.20	19.01	19.08	19.16	19.60	24.25	24.23	24.15	24.50
3GPP Rel 6	HSDPA Subtest-4	17.07	17.20	17.48	18.20	19.26	18.95	19.02	19.60	24.30	24.29	24.09	24.50
3GPP Rel 6	HSUPA Subtest-1	16.24	16.36	16.66	17.20	18.12	18.00	18.09	18.60	23.66	23.48	23.31	25.00
3GPP Rel 6	HSUPA Subtest-2	16.32	16.48	16.66	17.20	18.11	17.92	17.96	18.60	22.23	22.12	21.95	23.00
3GPP Rel 6	HSUPA Subtest-3	16.27	16.39	16.66	17.20	18.14	18.06	18.09	18.60	23.51	23.36	23.24	24.00
3GPP Rel 6	HSUPA Subtest-4	16.32	16.44	16.65	17.20	18.06	17.96	17.96	18.60	22.44	22.33	22.31	23.00
3GPP Rel 6	HSUPA Subtest-5	17.00	17.10	17.40	18.20	19.10	19.00	19.10	19.60	24.50	24.50	24.40	25.00

Band		WCDMA II_Ant 1_Index 2			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 2			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 2			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	21.06	21.19	21.01	22.40	21.45	21.41	21.37	22.70	20.97	20.95	20.82	21.70
3GPP Rel 99	RMC 12.2Kbps	21.08	21.21	21.05	22.40	21.46	21.44	21.38	22.70	21.00	20.98	20.84	21.70
3GPP Rel 6	HSDPA Subtest-1	21.05	21.08	20.89	22.40	21.26	21.26	21.28	22.70	20.81	20.95	20.77	21.70
3GPP Rel 6	HSDPA Subtest-2	21.04	21.15	20.92	22.40	21.43	21.28	21.25	22.70	20.91	20.93	20.71	21.70
3GPP Rel 6	HSDPA Subtest-3	20.91	21.03	20.91	22.40	21.39	21.36	21.16	22.70	20.93	20.93	20.68	21.70
3GPP Rel 6	HSDPA Subtest-4	20.92	21.01	21.00	22.40	21.34	21.41	21.27	22.70	20.82	20.75	20.72	21.70
3GPP Rel 6	HSUPA Subtest-1	20.04	20.15	19.97	21.40	20.35	20.21	20.22	21.70	19.96	19.75	19.72	20.70
3GPP Rel 6	HSUPA Subtest-2	19.99	20.04	19.90	21.40	20.36	20.25	20.30	21.70	19.84	19.77	19.68	20.70
3GPP Rel 6	HSUPA Subtest-3	19.92	20.09	20.00	21.40	20.25	20.37	20.20	21.70	19.85	19.88	19.81	20.70
3GPP Rel 6	HSUPA Subtest-4	19.93	20.17	20.00	21.40	20.37	20.31	20.33	21.70	19.96	19.78	19.76	20.70
3GPP Rel 6	HSUPA Subtest-5	20.94	21.18	20.98	22.40	21.34	21.37	21.15	22.70	20.80	20.94	20.73	21.70

Band		WCDMA II_Ant 1_Index 3			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 3			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 3			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	21.06	21.19	21.01	21.70	21.45	21.41	21.37	22.00	20.97	20.95	20.82	21.00
3GPP Rel 99	RMC 12.2Kbps	21.08	21.21	21.05	21.70	21.46	21.44	21.38	22.00	21.00	20.98	20.84	21.00
3GPP Rel 6	HSDPA Subtest-1	21.05	21.08	20.89	21.70	21.26	21.26	21.28	22.00	20.81	20.95	20.77	21.00
3GPP Rel 6	HSDPA Subtest-2	21.04	21.15	20.92	21.70	21.43	21.28	21.25	22.00	20.91	20.93	20.71	21.00
3GPP Rel 6	HSDPA Subtest-3	20.91	21.03	20.91	21.70	21.39	21.36	21.16	22.00	20.93	20.93	20.68	21.00
3GPP Rel 6	HSDPA Subtest-4	20.92	21.01	21.00	21.70	21.34	21.41	21.27	22.00	20.82	20.75	20.72	21.00
3GPP Rel 6	HSUPA Subtest-1	20.04	20.15	19.97	20.70	20.35	20.21	20.22	21.00	19.96	19.75	19.72	20.00
3GPP Rel 6	HSUPA Subtest-2	19.99	20.04	19.90	20.70	20.36	20.25	20.30	21.00	19.84	19.77	19.68	20.00
3GPP Rel 6	HSUPA Subtest-3	19.92	20.09	20.00	20.70	20.25	20.37	20.20	21.00	19.85	19.88	19.81	20.00
3GPP Rel 6	HSUPA Subtest-4	19.93	20.17	20.00	20.70	20.37	20.31	20.33	21.00	19.96	19.78	19.76	20.00
3GPP Rel 6	HSUPA Subtest-5	20.94	21.18	20.98	21.70	21.34	21.37	21.15	22.00	20.80	20.94	20.73	21.00

Band		WCDMA II_Ant 1_Index 4			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 4			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 4			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	21.48	21.46	21.51	22.20	24.18	23.92	23.95	25.00	24.27	24.20	24.03	25.00
3GPP Rel 99	RMC 12.2Kbps	21.52	21.30	21.64	22.20	24.19	23.95	23.99	25.00	24.28	24.22	24.07	25.00
3GPP Rel 6	HSDPA Subtest-1	21.14	21.26	21.49	22.20	24.16	24.01	23.95	25.00	24.11	24.10	24.01	25.00
3GPP Rel 6	HSDPA Subtest-2	21.16	21.43	21.50	22.20	24.15	24.09	23.86	25.00	24.25	24.10	23.93	25.00
3GPP Rel 6	HSDPA Subtest-3	21.15	21.11	21.33	22.70	24.13	24.00	23.90	24.50	22.92	22.74	22.66	24.50
3GPP Rel 6	HSDPA Subtest-4	21.18	21.15	21.42	22.70	24.17	23.95	23.93	24.50	23.38	23.34	23.22	24.50
3GPP Rel 6	HSUPA Subtest-1	20.21	20.53	20.96	21.20	23.31	23.18	23.07	25.00	23.19	23.01	23.07	25.00
3GPP Rel 6	HSUPA Subtest-2	20.24	20.51	20.96	21.20	22.99	22.97	22.97	23.00	21.94	21.72	21.66	23.00
3GPP Rel 6	HSUPA Subtest-3	20.17	20.43	20.91	21.20	23.30	23.11	23.04	24.00	23.02	22.86	22.70	24.00
3GPP Rel 6	HSUPA Subtest-4	20.19	20.44	20.92	21.20	22.97	22.95	22.92	23.00	21.67	21.75	21.69	23.00
3GPP Rel 6	HSUPA Subtest-5	21.06	21.37	21.50	22.20	24.10	24.00	23.90	25.00	24.20	24.10	24.10	25.00

Band		WCDMA II_Ant 1_Index 5			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 5			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 5			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.48	22.46	22.51	23.80	24.18	23.92	23.95	25.00	24.27	24.20	24.03	25.00
3GPP Rel 99	RMC 12.2Kbps	22.52	22.29	22.54	23.80	24.19	23.95	23.99	25.00	24.28	24.22	24.07	25.00
3GPP Rel 6	HSDPA Subtest-1	22.14	22.25	22.49	23.80	24.16	24.01	23.95	25.00	24.11	24.10	24.01	25.00
3GPP Rel 6	HSDPA Subtest-2	22.16	22.42	22.44	23.80	24.15	24.09	23.86	25.00	24.25	24.10	23.93	25.00
3GPP Rel 6	HSDPA Subtest-3	22.15	22.10	22.43	23.80	24.13	24.00	23.90	24.50	22.92	22.74	22.66	24.50
3GPP Rel 6	HSDPA Subtest-4	22.18	22.14	22.42	23.80	24.17	23.95	23.93	24.50	23.38	23.34	23.22	24.50
3GPP Rel 6	HSUPA Subtest-1	21.21	21.52	21.96	22.80	23.31	23.18	23.07	25.00	23.19	23.01	23.07	25.00
3GPP Rel 6	HSUPA Subtest-2	21.24	21.50	21.96	22.80	22.99	22.97	22.97	23.00	21.94	21.72	21.66	23.00
3GPP Rel 6	HSUPA Subtest-3	21.17	21.42	21.91	22.80	23.30	23.11	23.04	24.00	23.02	22.86	22.70	24.00
3GPP Rel 6	HSUPA Subtest-4	21.19	21.43	21.92	22.80	22.97	22.95	22.92	23.00	21.67	21.75	21.69	23.00
3GPP Rel 6	HSUPA Subtest-5	22.06	22.36	22.38	23.80	24.10	24.00	23.90	25.00	24.20	24.10	24.10	25.00

Band		WCDMA II_Ant 1_Index 6			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 6			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 6			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.48	22.46	22.51	23.10	24.18	23.92	23.95	25.00	24.27	24.20	24.03	25.00
3GPP Rel 99	RMC 12.2Kbps	22.52	22.29	22.54	23.10	24.19	23.95	23.99	25.00	24.28	24.22	24.07	25.00
3GPP Rel 6	HSDPA Subtest-1	22.14	22.25	22.49	23.10	24.16	24.01	23.95	25.00	24.11	24.10	24.01	25.00
3GPP Rel 6	HSDPA Subtest-2	22.16	22.42	22.44	23.10	24.15	24.09	23.86	25.00	24.25	24.10	23.93	25.00
3GPP Rel 6	HSDPA Subtest-3	22.15	22.10	22.43	23.10	24.13	24.00	23.90	24.50	22.92	22.74	22.66	24.50
3GPP Rel 6	HSDPA Subtest-4	22.18	22.14	22.42	23.10	24.17	23.95	23.93	24.50	23.38	23.34	23.22	24.50
3GPP Rel 6	HSUPA Subtest-1	21.21	21.52	21.96	23.10	23.31	23.18	23.07	25.00	23.19	23.01	23.07	25.00
3GPP Rel 6	HSUPA Subtest-2	21.24	21.50	21.96	22.10	22.99	22.97	22.97	23.00	21.94	21.72	21.66	23.00
3GPP Rel 6	HSUPA Subtest-3	21.17	21.42	21.91	22.10	23.30	23.11	23.04	24.00	23.02	22.86	22.70	24.00
3GPP Rel 6	HSUPA Subtest-4	21.19	21.43	21.92	22.10	22.97	22.95	22.92	23.00	21.67	21.75	21.69	23.00
3GPP Rel 6	HSUPA Subtest-5	22.06	22.36	22.38	23.10	24.10	24.00	23.90	25.00	24.20	24.10	24.10	25.00

Band		WCDMA II_Ant 1_Index 7			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 7			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 7			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938	Tune-up Limit (dBm)	1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	16.72	16.60	16.51	16.80	19.66	19.57	19.43	19.70	21.97	21.82	21.71	22.70
3GPP Rel 99	RMC 12.2Kbps	16.76	16.63	16.52	16.80	19.70	19.60	19.46	19.70	21.99	21.86	21.73	22.70
3GPP Rel 6	HSDPA Subtest-1	16.69	16.42	16.55	16.80	19.61	19.62	19.43	19.70	21.95	21.69	21.65	22.70
3GPP Rel 6	HSDPA Subtest-2	16.75	16.49	16.61	16.80	19.67	19.50	19.43	19.70	21.74	21.80	21.58	22.70
3GPP Rel 6	HSDPA Subtest-3	16.75	16.50	16.59	16.80	19.58	19.43	19.39	19.70	21.91	21.86	21.63	22.70
3GPP Rel 6	HSDPA Subtest-4	16.69	16.55	16.64	16.80	19.52	19.48	19.41	19.70	21.76	21.71	21.79	22.70
3GPP Rel 6	HSUPA Subtest-1	15.73	15.50	15.66	15.80	18.55	18.53	18.48	18.70	20.93	20.86	20.67	21.70
3GPP Rel 6	HSUPA Subtest-2	15.71	15.61	15.77	15.80	18.62	18.40	18.41	18.70	20.91	20.79	20.67	21.70
3GPP Rel 6	HSUPA Subtest-3	15.75	15.51	15.68	15.80	18.66	18.42	18.45	18.70	20.96	20.73	20.76	21.70
3GPP Rel 6	HSUPA Subtest-4	15.78	15.54	15.72	15.80	18.58	18.42	18.44	18.70	20.93	20.81	20.69	21.70
3GPP Rel 6	HSUPA Subtest-5	16.70	16.40	16.60	16.80	19.60	19.50	19.40	19.70	21.90	21.60	21.60	22.70

Band		WCDMA II_Ant 1_Index 9			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 9			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 9			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938	Tune-up Limit (dBm)	1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	19.66	19.72	19.50	20.10	24.18	23.92	23.95	24.80	24.27	24.20	24.03	25.00
3GPP Rel 99	RMC 12.2Kbps	19.67	19.73	19.52	20.10	24.19	23.95	23.99	24.80	24.28	24.22	24.07	25.00
3GPP Rel 6	HSDPA Subtest-1	19.64	19.72	19.45	20.10	24.16	24.01	23.95	24.80	24.11	24.10	24.01	25.00
3GPP Rel 6	HSDPA Subtest-2	19.69	19.55	19.49	20.10	24.15	24.09	23.86	24.80	24.25	24.10	23.93	25.00
3GPP Rel 6	HSDPA Subtest-3	19.60	19.66	19.56	20.10	24.13	24.00	23.90	24.50	22.92	22.74	22.66	24.50
3GPP Rel 6	HSDPA Subtest-4	19.65	19.68	19.51	20.10	24.17	23.95	23.93	24.50	23.38	23.34	23.22	24.50
3GPP Rel 6	HSUPA Subtest-1	18.67	18.54	18.46	19.10	23.31	23.18	23.07	24.80	23.19	23.01	23.07	25.00
3GPP Rel 6	HSUPA Subtest-2	18.61	18.41	18.44	19.10	22.99	22.97	22.97	23.00	21.94	21.72	21.66	23.00
3GPP Rel 6	HSUPA Subtest-3	18.69	18.62	18.48	19.10	23.30	23.11	23.04	24.00	23.02	22.86	22.70	24.00
3GPP Rel 6	HSUPA Subtest-4	18.68	18.63	18.44	19.10	22.97	22.95	22.92	23.00	21.67	21.75	21.69	23.00
3GPP Rel 6	HSUPA Subtest-5	19.70	19.60	19.70	20.10	24.10	24.00	23.90	24.80	24.20	24.10	24.10	25.00

Band		WCDMA II_Ant 1_Index 10			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 10			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 10			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	21.22	21.22	20.96	22.40	24.18	23.92	23.95	25.00	24.27	24.20	24.03	25.00
3GPP Rel 99	RMC 12.2Kbps	21.23	21.24	20.98	22.40	24.19	23.95	23.99	25.00	24.28	24.22	24.07	25.00
3GPP Rel 6	HSDPA Subtest-1	21.22	21.22	20.88	22.40	24.16	24.01	23.95	25.00	24.11	24.10	24.01	25.00
3GPP Rel 6	HSDPA Subtest-2	21.17	21.19	21.03	22.40	24.15	24.09	23.86	25.00	24.25	24.10	23.93	25.00
3GPP Rel 6	HSDPA Subtest-3	21.21	21.18	20.80	22.40	24.13	24.00	23.90	24.50	22.92	22.74	22.66	24.50
3GPP Rel 6	HSDPA Subtest-4	21.20	21.00	21.05	22.40	24.17	23.95	23.93	24.50	23.38	23.34	23.22	24.50
3GPP Rel 6	HSUPA Subtest-1	20.27	20.21	19.95	21.40	23.31	23.18	23.07	25.00	23.19	23.01	23.07	25.00
3GPP Rel 6	HSUPA Subtest-2	20.18	19.87	19.77	21.40	22.99	22.97	22.97	23.00	21.94	21.72	21.66	23.00
3GPP Rel 6	HSUPA Subtest-3	20.13	20.11	19.94	21.40	23.30	23.11	23.04	24.00	23.02	22.86	22.70	24.00
3GPP Rel 6	HSUPA Subtest-4	20.16	20.06	20.14	21.40	22.97	22.95	22.92	23.00	21.67	21.75	21.69	23.00
3GPP Rel 6	HSUPA Subtest-5	21.20	21.10	20.90	22.40	24.10	24.00	23.90	25.00	24.20	24.10	24.10	25.00

Band		WCDMA II_Ant 1_Index 11			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 11			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 11			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	21.22	21.22	20.96	21.70	24.18	23.92	23.95	24.80	24.27	24.20	24.03	25.00
3GPP Rel 99	RMC 12.2Kbps	21.23	21.24	20.98	21.70	24.19	23.95	23.99	24.80	24.28	24.22	24.07	25.00
3GPP Rel 6	HSDPA Subtest-1	21.22	21.22	20.88	21.70	24.16	24.01	23.95	24.80	24.11	24.10	24.01	25.00
3GPP Rel 6	HSDPA Subtest-2	21.17	21.19	21.03	21.70	24.15	24.09	23.86	24.80	24.25	24.10	23.93	25.00
3GPP Rel 6	HSDPA Subtest-3	21.21	21.18	20.80	21.70	24.13	24.00	23.90	24.50	22.92	22.74	22.66	24.50
3GPP Rel 6	HSDPA Subtest-4	21.20	21.00	21.05	21.70	24.17	23.95	23.93	24.50	23.38	23.34	23.22	24.50
3GPP Rel 6	HSUPA Subtest-1	20.27	20.21	19.95	20.70	23.31	23.18	23.07	24.80	23.19	23.01	23.07	25.00
3GPP Rel 6	HSUPA Subtest-2	20.18	19.87	19.77	20.70	22.99	22.97	22.97	23.00	21.94	21.72	21.66	23.00
3GPP Rel 6	HSUPA Subtest-3	20.13	20.11	19.94	20.70	23.30	23.11	23.04	24.00	23.02	22.86	22.70	24.00
3GPP Rel 6	HSUPA Subtest-4	20.16	20.06	20.14	20.70	22.97	22.95	22.92	23.00	21.67	21.75	21.69	23.00
3GPP Rel 6	HSUPA Subtest-5	21.20	21.10	20.90	21.70	24.10	24.00	23.90	24.80	24.20	24.10	24.10	25.00