

➤ LTE Band 26

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26697	26865	27033		26697	26865	27033		26697	26865	27033	
			814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz	
26 / 1.4M	1	0	19.23	19.31	19.34	0	18.11	18.15	18.10	1	/	/	/	2
	1	2	19.42	19.41	19.39	0	18.33	18.45	18.26	1	/	/	/	2
	1	5	19.18	19.22	19.29	0	18.13	18.22	18.09	1	/	/	/	2
	3	0	19.32	19.38	19.41	0	18.40	18.46	18.54	1	/	/	/	2
	3	1	19.38	19.41	19.45	0	18.59	18.59	18.53	1	/	/	/	2
	3	3	19.35	19.39	19.33	0	18.42	18.40	18.58	1	/	/	/	2
	6	0	18.33	18.39	18.42	1	17.28	17.34	17.43	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26705	26865	27025		26705	26865	27025		26705	26865	27025	
			815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz	
26 / 3M	1	0	19.23	19.28	19.38	0	18.88	18.95	18.44	1	/	/	/	2
	1	7	19.26	19.29	19.31	0	18.86	18.97	18.46	1	/	/	/	2
	1	14	19.24	19.28	19.35	0	18.91	18.95	18.39	1	/	/	/	2
	8	0	18.28	18.34	18.37	1	17.40	17.47	17.31	2	/	/	/	3
	8	3	18.34	18.37	18.45	1	17.51	17.49	17.56	2	/	/	/	3
	8	7	18.31	18.34	18.37	1	17.47	17.54	17.36	2	/	/	/	3
	15	0	18.33	18.39	18.40	1	17.36	17.43	17.33	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26715	26865	27015		26715	26865	27015		26715	26865	27015	
			816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz	
26 / 5M	1	0	19.14	19.25	19.25	0	18.10	18.42	18.21	1	/	/	/	2
	1	12	19.38	19.39	19.41	0	18.27	18.62	18.34	1	/	/	/	2
	1	24	19.12	19.27	19.24	0	18.15	18.40	18.19	1	/	/	/	2
	12	0	18.28	18.33	18.39	1	17.19	17.36	17.27	2	/	/	/	3
	12	6	18.39	18.44	18.49	1	17.42	17.58	17.51	2	/	/	/	3
	12	13	18.35	18.29	18.47	1	17.31	17.30	17.37	2	/	/	/	3
	25	0	18.34	18.33	18.42	1	17.28	17.33	17.40	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26740	26865	26990		26740	26865	26990		26740	26865	26990	
			819.0 MHz	831.5 MHz	844.0 MHz		819.0 MHz	831.5 MHz	844.0 MHz		819.0 MHz	831.5 MHz	844.0 MHz	
26 / 10M	1	0	19.21	19.31	19.26	0	18.09	18.42	18.22	1	/	/	/	2
	1	24	19.40	19.44	19.53	0	18.29	18.48	18.42	1	/	/	/	2
	1	49	19.25	19.33	19.33	0	18.19	18.47	18.23	1	/	/	/	2
	25	0	18.19	18.27	18.62	1	17.24	17.30	17.76	2	/	/	/	3
	25	12	18.34	18.43	18.52	1	17.42	17.43	17.59	2	/	/	/	3
	25	25	18.18	18.25	18.69	1	17.30	17.26	17.74	2	/	/	/	3
	50	0	18.23	18.31	18.73	1	17.26	17.33	17.69	2	/	/	/	3

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			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26765	26865	26965		26765	26865	26965		26765	26865	26965	
			821.5 MHz	831.5 MHz	841.5 MHz		821.5 MHz	831.5 MHz	841.5 MHz		821.5 MHz	831.5 MHz	841.5 MHz	
26 / 15M	1	0	19.28	19.30	19.52	0	18.41	18.86	18.49	1	/	/	/	2
	1	37	19.58	19.40	19.73	0	18.60	19.02	18.63	1	/	/	/	2
	1	74	19.24	19.21	19.42	0	18.46	18.83	18.46	1	/	/	/	2
	36	0	18.16	18.38	18.45	1	17.17	17.37	17.48	2	/	/	/	3
	36	19	18.31	18.49	18.35	1	17.33	17.39	17.39	2	/	/	/	3
	36	39	18.21	18.49	18.50	1	17.15	17.41	17.51	2	/	/	/	3
	75	0	18.25	18.45	18.54	1	17.21	17.46	17.51	2	/	/	/	3

➤ LTE Band 41

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39675	40620	41565		39675	40620	41565		39675	40620	41565	
			2498.5 MHz	2593.0 MHz	2687.5 MHz		2498.5 MHz	2593.0 MHz	2687.5 MHz		2498.5 MHz	2593.0 MHz	2687.5 MHz	
41 / 5M	1	0	17.13	16.99	17.12	0	17.19	16.93	17.27	1	/	/	/	2
	1	12	17.35	17.14	17.27	0	17.28	17.03	17.42	1	/	/	/	2
	1	24	17.20	17.16	17.16	0	17.14	16.96	17.33	1	/	/	/	2
	12	0	17.28	17.01	17.24	1	17.23	17.06	17.29	2	/	/	/	3
	12	7	17.31	17.08	17.34	1	17.47	17.19	17.53	2	/	/	/	3
	12	13	17.27	17.06	17.29	1	17.32	17.11	17.40	2	/	/	/	3
	25	0	17.24	17.06	17.25	1	17.32	17.11	17.28	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39700	40620	41540		39700	40620	41540		39700	40620	41540	
			2501.0 MHz	2593.0 MHz	2685.0 MHz		2501.0 MHz	2593.0 MHz	2685.0 MHz		2501.0 MHz	2593.0 MHz	2685.0 MHz	
41 / 10M	1	0	17.14	17.07	17.24	0	17.33	16.89	17.12	1	/	/	/	2
	1	25	17.49	17.33	17.54	0	17.46	17.18	17.46	1	/	/	/	2
	1	49	17.21	16.96	17.32	0	17.36	16.82	17.25	1	/	/	/	2
	25	0	17.20	17.08	17.21	1	17.33	17.20	17.32	2	/	/	/	3
	25	12	17.29	17.08	17.27	1	17.42	17.26	17.39	2	/	/	/	3
	25	25	17.34	17.04	17.28	1	17.45	17.29	17.46	2	/	/	/	3
	50	0	17.31	17.08	17.25	1	17.44	17.20	17.37	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39725	40620	41515		39725	40620	41515		39725	40620	41515	
			2503.5 MHz	2593.0 MHz	2682.5 MHz		2503.5 MHz	2593.0 MHz	2682.5 MHz		2503.5 MHz	2593.0 MHz	2682.5 MHz	
41 / 15M	1	0	17.10	17.01	17.01	0	17.29	16.75	17.19	1	/	/	/	2
	1	37	17.25	17.12	17.17	0	17.35	16.86	17.40	1	/	/	/	2
	1	74	17.09	16.73	17.11	0	17.20	16.70	17.34	1	/	/	/	2
	36	0	17.21	17.02	17.20	1	17.23	17.01	17.30	2	/	/	/	3
	36	20	17.23	16.97	17.24	1	17.24	17.05	17.26	2	/	/	/	3
	36	39	17.25	17.12	17.29	1	17.28	17.04	17.44	2	/	/	/	3
	75	0	17.23	17.02	17.25	1	17.22	17.07	17.33	2	/	/	/	3

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			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39750	40620	41490		39750	40620	41490		39750	40620	41490	
41 / 20M	1	0	17.04	16.83	16.86	0	17.26	16.76	16.70	1	/	/	/	2
	1	50	17.61	17.30	17.43	0	17.31	17.30	17.26	1	/	/	/	2
	1	99	16.98	16.85	17.03	0	17.19	16.76	16.87	1	/	/	/	2
	50	0	17.13	16.98	17.18	1	17.29	17.02	17.30	2	/	/	/	3
	50	25	17.24	17.08	17.18	1	17.38	17.19	17.30	2	/	/	/	3
	50	50	17.30	17.16	17.32	1	17.45	17.28	17.46	2	/	/	/	3
	100	0	17.22	17.11	17.26	1	17.38	17.17	17.32	2	/	/	/	3

➤ LTE Band 66

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)	
			CH	CH	CH		CH	CH	CH		CH	CH	CH		CH
			131979	132322	132665		131979	132322	132665		131979	132322	132665		131979
66 / 1.4M	1	0	16.74	16.86	16.85	0	15.59	15.64	15.84	1	/	/	/	2	
	1	3	16.79	16.96	17.06	0	15.79	15.81	16.09	1	/	/	/	2	
	1	5	16.74	16.84	16.89	0	15.57	15.64	15.90	1	/	/	/	2	
	3	0	16.82	16.91	16.95	1	15.88	16.03	15.92	2	/	/	/	3	
	3	1	16.88	16.97	17.07	1	16.07	15.99	16.21	2	/	/	/	3	
	3	3	16.77	16.92	16.98	1	15.87	16.03	15.96	2	/	/	/	3	
	6	0	15.79	15.92	15.93	1	14.78	14.89	15.02	2	/	/	/	3	

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)	
			CH	CH	CH		CH	CH	CH		CH	CH	CH		CH
			131987	132322	132657		131987	132322	132657		131987	132322	132657		131987
66 / 3M	1	0	16.81	16.95	16.96	0	15.60	16.46	15.99	1	/	/	/	2	
	1	8	16.82	16.90	16.91	0	15.68	16.47	15.95	1	/	/	/	2	
	1	14	16.72	16.88	16.96	0	15.64	16.44	15.91	1	/	/	/	2	
	8	0	15.79	15.92	15.96	1	14.92	15.07	14.98	2	/	/	/	3	
	8	4	15.83	15.91	15.97	1	14.91	15.05	15.16	2	/	/	/	3	
	8	7	15.78	15.90	15.95	1	14.84	15.08	14.90	2	/	/	/	3	
	15	0	15.79	15.90	15.93	1	14.87	14.96	14.92	2	/	/	/	3	

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)	
			CH	CH	CH		CH	CH	CH		CH	CH	CH		CH
			131997	132322	132647		131997	132322	132647		131997	132322	132647		131997
66 / 5M	1	0	16.74	16.84	16.81	0	15.49	16.01	15.69	1	/	/	/	2	
	1	12	16.82	16.98	16.99	0	15.66	16.14	15.90	1	/	/	/	2	
	1	24	16.68	16.82	16.83	0	15.49	16.00	15.75	1	/	/	/	2	
	12	0	15.78	15.91	15.99	1	14.76	14.90	14.97	2	/	/	/	3	
	12	7	15.89	15.95	16.00	1	14.94	15.10	15.08	2	/	/	/	3	
	12	13	15.82	15.94	15.99	1	14.74	14.87	14.93	2	/	/	/	3	
	25	0	15.77	15.93	15.94	1	14.80	14.90	14.97	2	/	/	/	3	

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			CH 132022	CH 132322	CH 132622		CH 132022	CH 132322	CH 132622		CH 132022	CH 132322	CH 132622	
			1715 MHz	1745 MHz	1775 MHz		1715 MHz	1745 MHz	1775 MHz		1715 MHz	1745 MHz	1775 MHz	
66 / 10M	1	0	16.79	16.91	16.97	0	16.37	15.91	15.81	1	/	/	/	2
	1	25	16.90	17.04	17.07	0	16.48	16.05	15.87	1	/	/	/	2
	1	49	16.77	16.94	16.92	0	16.40	15.95	15.78	1	/	/	/	2
	25	0	15.79	15.95	15.98	1	14.85	14.98	15.13	2	/	/	/	3
	25	12	15.89	15.93	16.02	1	14.90	15.01	15.16	2	/	/	/	3
	25	25	15.87	15.95	15.90	1	14.91	14.96	15.02	2	/	/	/	3
	50	0	15.84	15.97	15.98	1	14.89	15.01	15.00	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 132047	CH 132322	CH 132597		CH 132047	CH 132322	CH 132597		CH 132047	CH 132322	CH 132597	
			1717.5 MHz	1745 MHz	1772.5 MHz		1717.5 MHz	1745 MHz	1772.5 MHz		1717.5 MHz	1745 MHz	1772.5 MHz	
66 / 15M	1	0	16.67	16.81	16.88	0	15.99	16.43	15.87	1	/	/	/	2
	1	37	16.80	16.89	16.99	0	16.03	16.49	15.99	1	/	/	/	2
	1	74	16.70	16.77	16.92	0	15.97	16.37	15.87	1	/	/	/	2
	36	0	15.82	15.96	16.00	1	14.73	14.91	14.99	2	/	/	/	3
	36	20	15.82	15.93	16.00	1	14.83	14.93	15.10	2	/	/	/	3
	36	39	15.80	15.90	15.98	1	14.84	14.92	14.98	2	/	/	/	3
	75	0	15.80	15.94	15.96	1	14.80	14.97	15.04	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 132072	CH 132322	CH 132572		CH 132072	CH 132322	CH 132572		CH 132072	CH 132322	CH 132572	
			1720 MHz	1745 MHz	1770 MHz		1720 MHz	1745 MHz	1770 MHz		1720 MHz	1745 MHz	1770 MHz	
66 / 20M	1	0	16.54	16.65	16.68	0	16.01	15.85	15.79	1	/	/	/	2
	1	49	16.91	17.13	17.10	0	16.39	16.31	16.26	1	/	/	/	2
	1	99	16.58	16.69	16.71	0	16.05	15.89	15.83	1	/	/	/	2
	50	0	15.79	15.97	16.01	1	14.82	15.01	15.03	2	/	/	/	3
	50	24	15.80	15.93	15.97	1	14.82	14.99	15.03	2	/	/	/	3
	50	50	15.89	15.93	15.92	1	14.86	14.94	14.97	2	/	/	/	3
	100	0	15.81	15.96	15.93	1	14.89	14.97	15.01	2	/	/	/	3

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➤ LTE Band 71

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			CH 133147	CH 133297	CH 133447		CH 133147	CH 133297	CH 133447		CH 133147	CH 133297	CH 133447	
			665.5 MHz	680.5 MHz	695.5 MHz		665.5 MHz	680.5 MHz	695.5 MHz		665.5 MHz	680.5 MHz	695.5 MHz	
71 / 5M	1	0	20.14	20.12	20.01	0	18.88	19.27	18.88	1	/	/	/	2
	1	12	20.24	20.22	20.07	0	18.96	19.32	18.99	1	/	/	/	2
	1	24	20.17	20.08	20.02	0	18.91	19.23	18.90	1	/	/	/	2
	12	0	19.01	19.23	19.03	1	18.01	18.16	17.94	2	/	/	/	3
	12	7	19.22	19.22	19.12	1	18.30	18.36	18.18	2	/	/	/	3
	12	13	19.11	19.11	19.06	1	18.11	18.09	17.90	2	/	/	/	3
	25	0	19.11	19.15	19.06	1	18.16	18.14	18.08	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133172	CH 133297	CH 133422		CH 133172	CH 133297	CH 133422		CH 133172	CH 133297	CH 133422	
			668 MHz	680.5 MHz	693 MHz		668 MHz	680.5 MHz	693 MHz		668 MHz	680.5 MHz	693 MHz	
71 / 10M	1	0	19.90	20.08	20.14	0	19.72	19.16	18.90	1	/	/	/	2
	1	25	20.20	20.12	20.20	0	19.79	19.23	19.09	1	/	/	/	2
	1	49	19.89	20.13	20.11	0	19.70	19.19	18.93	1	/	/	/	2
	25	0	19.19	19.22	19.15	1	18.29	18.23	18.23	2	/	/	/	3
	25	12	19.21	19.20	19.18	1	18.24	18.24	18.24	2	/	/	/	3
	25	25	19.21	19.14	19.10	1	18.26	18.11	18.13	2	/	/	/	3
	50	0	19.25	19.19	19.10	1	18.25	18.20	18.12	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133197	CH 133297	CH 133397		CH 133197	CH 133297	CH 133397		CH 133197	CH 133297	CH 133397	
			670.5 MHz	680.5 MHz	690.5 MHz		670.5 MHz	680.5 MHz	690.5 MHz		670.5 MHz	680.5 MHz	690.5 MHz	
71 / 15M	1	0	20.08	20.02	20.00	0	19.71	19.08	19.15	1	/	/	/	2
	1	37	20.20	20.19	20.08	0	19.75	19.21	19.39	1	/	/	/	2
	1	74	20.09	20.07	20.05	0	19.60	19.10	19.21	1	/	/	/	2
	36	0	19.31	19.23	19.15	1	18.27	18.20	18.10	2	/	/	/	3
	36	20	19.28	19.23	19.23	1	18.26	18.23	18.16	2	/	/	/	3
	36	39	19.30	19.22	19.12	1	18.33	18.17	18.09	2	/	/	/	3
	75	0	19.33	19.16	19.16	1	18.31	18.15	18.14	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133222	CH 133322	CH 133372		CH 133222	CH 133322	CH 133372		CH 133222	CH 133322	CH 133372	
			673 MHz	683 MHz	688 MHz		673 MHz	683 MHz	688 MHz		673 MHz	683 MHz	688 MHz	
71 / 20M	1	0	20.24	19.89	19.91	0	19.35	19.06	18.99	1	/	/	/	2
	1	49	20.25	20.16	20.19	0	19.77	19.45	19.41	1	/	/	/	2
	1	99	20.12	19.91	19.83	0	19.37	19.12	18.97	1	/	/	/	2
	50	0	19.32	19.32	19.31	1	18.36	18.26	18.33	2	/	/	/	3
	50	24	19.21	19.16	19.15	1	18.26	18.19	18.23	2	/	/	/	3
	50	50	19.28	19.24	19.11	1	18.25	18.22	18.20	2	/	/	/	3
	100	0	19.30	19.27	19.27	1	18.26	18.25	18.24	2	/	/	/	3

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➤ LTE Band 2 Power Reduction

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18607	18900	19193		18607	18900	19193		18607	18900	19193	
2 / 1.4M	1	0	22.59	22.35	22.15	0	21.26	21.33	20.99	1	/	/	/	2
	1	3	22.63	22.52	22.34	0	21.51	21.56	21.21	1	/	/	/	2
	1	5	22.57	22.34	22.18	0	21.32	21.35	20.99	1	/	/	/	2
	3	0	22.62	22.41	22.26	1	21.68	21.35	21.36	2	/	/	/	3
	3	1	22.71	22.47	22.33	1	21.69	21.67	21.46	2	/	/	/	3
	3	3	22.64	22.39	22.23	1	21.74	21.36	21.20	2	/	/	/	3
	6	0	21.61	21.39	21.28	1	20.62	20.44	20.27	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18615	18900	19185		18615	18900	19185		18615	18900	19185	
2 / 3M	1	0	22.63	22.44	22.30	0	22.18	21.46	21.14	1	/	/	/	2
	1	8	22.66	22.50	22.30	0	22.13	21.46	21.17	1	/	/	/	2
	1	14	22.55	22.44	22.30	0	22.05	21.46	21.16	1	/	/	/	2
	8	0	21.67	21.49	21.30	1	20.82	20.44	20.36	2	/	/	/	3
	8	3	21.67	21.55	21.27	1	20.84	20.64	20.43	2	/	/	/	3
	8	7	21.68	21.44	21.26	1	20.82	20.43	20.32	2	/	/	/	3
	15	0	21.67	21.45	21.30	1	20.71	20.44	20.39	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18625	18900	19175		18625	18900	19175		18625	18900	19175	
2 / 5M	1	0	22.68	22.44	22.19	0	21.37	21.62	21.10	1	/	/	/	2
	1	12	22.72	22.52	22.29	0	21.46	21.70	21.18	1	/	/	/	2
	1	24	22.53	22.41	22.15	0	21.34	21.56	21.09	1	/	/	/	2
	12	0	21.59	21.47	21.30	1	20.60	20.49	20.32	2	/	/	/	3
	12	7	21.70	21.54	21.31	1	20.82	20.69	20.41	2	/	/	/	3
	12	13	21.58	21.44	21.22	1	20.65	20.46	20.13	2	/	/	/	3
	25	0	21.61	21.46	21.25	1	20.68	20.42	20.34	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18650	18900	19150		18650	18900	19150		18650	18900	19150	
2 / 10M	1	0	22.71	22.49	22.30	0	22.13	21.50	21.18	1	/	/	/	2
	1	25	22.72	22.62	22.49	0	22.29	21.56	21.24	1	/	/	/	2
	1	49	22.57	22.39	22.25	0	22.12	21.43	21.15	1	/	/	/	2
	25	0	21.64	21.56	21.36	1	20.72	20.59	20.44	2	/	/	/	3
	25	12	21.61	21.47	21.36	1	20.69	20.57	20.45	2	/	/	/	3
	25	25	21.60	21.46	21.20	1	20.67	20.48	20.29	2	/	/	/	3
	50	0	21.64	21.50	21.30	1	20.66	20.54	20.33	2	/	/	/	3

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LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18675	18900	19125		18675	18900	19125		18675	18900	19125	
2 / 15M	1	0	22.59	22.41	22.36	0	21.77	21.97	21.32	1	/	/	/	2
	1	37	22.59	22.53	22.37	0	21.83	22.02	21.38	1	/	/	/	2
	1	74	22.45	22.37	22.22	0	21.70	21.87	21.16	1	/	/	/	2
	36	0	21.72	21.57	21.40	1	20.70	20.61	20.38	2	/	/	/	3
	36	20	21.68	21.57	21.43	1	20.68	20.55	20.49	2	/	/	/	3
	36	39	21.64	21.45	21.30	1	20.65	20.49	20.25	2	/	/	/	3
	75	0	21.66	21.53	21.36	1	20.66	20.54	20.37	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18700	18900	19100		18700	18900	19100		18700	18900	19100	
2 / 20M	1	0	22.42	22.35	22.21	0	21.82	21.44	21.28	1	/	/	/	2
	1	49	22.73	22.71	22.52	0	22.15	21.88	21.66	1	/	/	/	2
	1	99	22.27	22.21	22.03	0	21.68	21.40	21.16	1	/	/	/	2
	50	0	21.66	21.47	21.47	1	20.68	20.54	20.49	2	/	/	/	3
	50	24	21.61	21.51	21.42	1	20.65	20.62	20.47	2	/	/	/	3
	50	50	21.61	21.36	21.23	1	20.64	20.42	20.25	2	/	/	/	3
	100	0	21.68	21.48	21.36	1	20.66	20.48	20.41	2	/	/	/	3

➤ LTE Band 4 (Power Reduction)

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			19957	20175	20393		19957	20175	20393		19957	20175	20393	
4 / 1.4M	1	0	22.66	22.69	22.75	0	21.39	21.39	21.67	1	/	/	/	2
	1	3	22.85	22.74	22.94	0	21.63	21.62	21.89	1	/	/	/	2
	1	5	22.64	22.69	22.75	0	21.43	21.44	21.72	1	/	/	/	2
	3	0	22.68	22.73	22.80	1	21.66	21.83	21.70	2	/	/	/	3
	3	1	22.72	22.81	22.88	1	21.84	21.79	22.00	2	/	/	/	3
	3	3	22.70	22.73	22.80	1	21.63	21.84	21.69	2	/	/	/	3
	6	0	21.72	21.80	21.85	1	20.60	20.65	20.90	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			19965	20175	20385		19965	20175	20385		19965	20175	20385	
4 / 3M	1	0	22.72	22.78	22.84	0	21.50	22.21	21.82	1	/	/	/	2
	1	8	22.71	22.73	22.86	0	21.48	22.21	21.83	1	/	/	/	2
	1	14	22.75	22.71	22.86	0	21.49	22.21	21.77	1	/	/	/	2
	8	0	21.66	21.71	21.84	1	20.74	20.89	20.85	2	/	/	/	3
	8	4	21.74	21.78	21.89	1	20.78	20.89	20.96	2	/	/	/	3
	8	7	21.69	21.75	21.82	1	20.72	20.87	20.73	2	/	/	/	3
	15	0	21.69	21.67	21.74	1	20.73	20.81	20.76	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			19975	20175	20375		19975	20175	20375		19975	20175	20375	
4 / 5M	1	0	22.71	22.68	22.75	0	21.36	21.79	21.63	1	/	/	/	2
	1	12	22.74	22.83	22.85	0	21.41	21.96	21.69	1	/	/	/	2
	1	24	22.64	22.74	22.76	0	21.34	21.87	21.62	1	/	/	/	2
	12	0	21.64	21.70	21.81	1	20.66	20.70	20.78	2	/	/	/	3
	12	7	21.72	21.80	21.85	1	20.81	20.90	20.92	2	/	/	/	3
	12	13	21.66	21.77	21.78	1	20.68	20.77	20.78	2	/	/	/	3
	25	0	21.66	21.71	21.83	1	20.70	20.72	20.84	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20000	20175	20350		20000	20175	20350		20000	20175	20350	
4 / 10M	1	0	22.88	22.67	22.82	0	22.17	21.65	21.65	1	/	/	/	2
	1	25	22.91	22.94	23.05	0	22.32	21.89	21.80	1	/	/	/	2
	1	49	22.69	22.76	22.78	0	22.12	21.78	21.61	1	/	/	/	2
	25	0	21.70	21.71	21.87	1	20.77	20.80	20.96	2	/	/	/	3
	25	12	21.71	21.74	21.82	1	20.76	20.78	20.98	2	/	/	/	3
	25	25	21.80	21.80	21.87	1	20.78	20.84	20.95	2	/	/	/	3
	50	0	21.73	21.81	21.82	1	20.75	20.80	20.93	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20025	20175	20325		20025	20175	20325		20025	20175	20325	
4 / 15M	1	0	22.57	22.63	22.73	0	21.76	22.08	21.75	1	/	/	/	2
	1	37	22.72	22.79	22.86	0	21.85	22.27	21.83	1	/	/	/	2
	1	74	22.58	22.73	22.75	0	21.75	22.20	21.71	1	/	/	/	2
	36	0	21.80	21.80	21.90	1	20.68	20.78	20.93	2	/	/	/	3
	36	20	21.79	21.79	21.96	1	20.69	20.73	20.99	2	/	/	/	3
	36	39	21.80	21.84	21.94	1	20.74	20.88	20.88	2	/	/	/	3
	75	0	21.80	21.85	21.90	1	20.71	20.84	20.91	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20050	20175	20300		20050	20175	20300		20050	20175	20300	
4 / 20M	1	0	22.45	22.44	22.56	0	21.45	21.84	21.73	1	/	/	/	2
	1	49	22.83	22.86	23.07	0	21.90	22.31	22.11	1	/	/	/	2
	1	99	22.46	22.55	22.62	0	21.52	22.00	21.76	1	/	/	/	2
	50	0	21.67	21.76	21.84	1	20.68	20.73	20.76	2	/	/	/	3
	50	24	21.70	21.80	21.88	1	20.72	20.78	20.90	2	/	/	/	3
	50	50	21.73	21.80	21.83	1	20.76	20.83	20.81	2	/	/	/	3
	100	0	21.71	21.80	21.86	1	20.76	20.80	20.82	2	/	/	/	3

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➤ LTE Band 5(Power Reduction)

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20407	Mid CH 20525	High CH 20643		Low CH 20407	Mid CH 20525	High CH 20643		Low CH 20407	Mid CH 20525	High CH 20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
5 / 1.4M	1	0	23.26	23.27	23.25	0	22.12	22.04	22.24	1	/	/	/	2
	1	3	23.49	23.48	23.49	0	22.32	22.26	22.50	1	/	/	/	2
	1	5	23.31	23.27	23.27	0	22.14	22.02	22.23	1	/	/	/	2
	3	0	23.41	23.39	23.36	1	22.38	22.54	22.28	2	/	/	/	3
	3	1	23.40	23.40	23.40	1	22.61	22.42	22.57	2	/	/	/	3
	3	3	23.43	23.34	23.35	1	22.44	22.49	22.28	2	/	/	/	3
	6	0	22.34	22.34	22.37	1	21.30	21.35	21.37	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20415	Mid CH 20525	High CH 20635		Low CH 20415	Mid CH 20525	High CH 20635		Low CH 20415	Mid CH 20525	High CH 20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
5 / 3M	1	0	23.29	23.32	23.32	0	22.18	22.88	22.40	1	/	/	/	2
	1	8	23.35	23.30	23.34	0	22.19	22.85	22.31	1	/	/	/	2
	1	14	23.40	23.23	23.35	0	22.24	22.78	22.37	1	/	/	/	2
	8	0	22.34	22.32	22.36	1	21.42	21.45	21.34	2	/	/	/	3
	8	4	22.39	22.34	22.40	1	21.45	21.49	21.51	2	/	/	/	3
	8	7	22.35	22.29	22.34	1	21.42	21.48	21.31	2	/	/	/	3
	15	0	22.33	22.30	22.35	1	21.40	21.38	21.30	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20425	Mid CH 20525	High CH 20625		Low CH 20425	Mid CH 20525	High CH 20625		Low CH 20425	Mid CH 20525	High CH 20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
5 / 5M	1	0	23.29	23.27	23.30	0	22.13	22.03	22.44	1	/	/	/	2
	1	12	23.42	23.40	23.38	0	22.34	22.15	22.50	1	/	/	/	2
	1	24	23.25	23.24	23.30	0	22.19	22.03	22.38	1	/	/	/	2
	12	0	22.31	22.27	22.21	1	21.36	21.23	21.29	2	/	/	/	3
	12	7	22.41	22.37	22.44	1	21.50	21.43	21.56	2	/	/	/	3
	12	13	22.40	22.27	22.38	1	21.36	21.21	21.36	2	/	/	/	3
	25	0	22.41	22.23	22.34	1	21.42	21.29	21.39	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20450	Mid CH 20525	High CH 20600		Low CH 20450	Mid CH 20525	High CH 20600		Low CH 20450	Mid CH 20525	High CH 20600	
			829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz	
5 / 10M	1	0	23.31	23.35	23.30	0	22.32	22.13	22.82	1	/	/	/	2
	1	25	23.55	23.45	23.48	0	22.55	22.30	23.01	1	/	/	/	2
	1	49	23.39	23.40	23.33	0	22.29	22.14	22.81	1	/	/	/	2
	25	0	22.45	22.26	22.50	1	21.51	21.38	21.58	2	/	/	/	3
	25	12	22.38	22.36	22.44	1	21.46	21.50	21.51	2	/	/	/	3
	25	25	22.52	22.24	22.58	1	21.54	21.32	21.65	2	/	/	/	3
	50	0	22.50	22.20	22.52	1	21.53	21.29	21.57	2	/	/	/	3

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➤ LTE Band 12(Power Reduction)

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23017	Mid CH 23095	High CH 23173		Low CH 23017	Mid CH 23095	High CH 23173		Low CH 23017	Mid CH 23095	High CH 23173	
			699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz	
12 / 1.4M	1	0	23.04	22.87	22.81	0	21.62	21.84	21.64	1	/	/	/	2
	1	3	23.09	23.01	22.99	0	21.81	22.00	21.88	1	/	/	/	2
	1	5	22.94	22.88	22.83	0	21.62	21.80	21.73	1	/	/	/	2
	3	0	22.95	22.92	22.89	1	22.09	21.79	21.89	2	/	/	/	3
	3	1	22.98	23.01	23.01	1	22.04	22.10	22.18	2	/	/	/	3
	3	3	22.99	22.90	22.93	1	22.17	21.85	21.92	2	/	/	/	3
	6	0	21.94	21.95	21.92	1	20.89	20.91	20.82	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23025	Mid CH 23095	High CH 23165		Low CH 23025	Mid CH 23095	High CH 23165		Low CH 23025	Mid CH 23095	High CH 23165	
			700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz	
12 / 3M	1	0	22.94	22.89	22.87	0	22.44	21.95	21.69	1	/	/	/	2
	1	8	22.97	22.94	22.90	0	22.39	21.90	21.67	1	/	/	/	2
	1	14	22.94	22.85	22.93	0	22.41	21.83	21.72	1	/	/	/	2
	8	0	21.90	21.91	21.91	1	20.99	20.84	20.96	2	/	/	/	3
	8	4	21.96	21.91	21.94	1	21.09	20.96	20.96	2	/	/	/	3
	8	7	21.95	21.86	21.85	1	21.08	20.80	20.89	2	/	/	/	3
	15	0	21.91	21.84	21.88	1	20.97	20.78	20.91	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23035	Mid CH 23095	High CH 23155		Low CH 23035	Mid CH 23095	High CH 23155		Low CH 23035	Mid CH 23095	High CH 23155	
			701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz	
12 / 5M	1	0	22.97	22.81	22.73	0	21.59	21.94	21.63	1	/	/	/	2
	1	12	23.01	23.01	22.87	0	21.73	22.08	21.76	1	/	/	/	2
	1	24	22.82	22.81	22.82	0	21.60	21.93	21.67	1	/	/	/	2
	12	0	21.80	21.89	21.81	1	20.75	20.94	20.71	2	/	/	/	3
	12	7	21.93	21.92	21.90	1	21.01	21.04	20.98	2	/	/	/	3
	12	13	21.91	21.88	21.73	1	20.81	20.84	20.71	2	/	/	/	3
	25	0	21.85	21.85	21.78	1	20.87	20.90	20.81	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23060	Mid CH 23095	High CH 23130		Low CH 23060	Mid CH 23095	High CH 23130		Low CH 23060	Mid CH 23095	High CH 23130	
			704.0 MHz	707.5 MHz	711.0 MHz		704.0 MHz	707.5 MHz	711.0 MHz		704.0 MHz	707.5 MHz	711.0 MHz	
12 / 10M	1	0	22.91	22.86	22.91	0	21.88	21.67	22.39	1	/	/	/	2
	1	25	23.08	23.12	23.06	0	22.04	21.89	22.52	1	/	/	/	2
	1	49	22.94	22.86	22.91	0	21.90	21.68	22.41	1	/	/	/	2
	25	0	21.77	22.11	21.89	1	20.82	21.16	20.97	2	/	/	/	3
	25	12	21.94	21.91	21.94	1	20.98	21.00	20.96	2	/	/	/	3
	25	25	21.82	22.09	21.85	1	20.82	21.14	20.89	2	/	/	/	3
	50	0	21.73	22.08	21.88	1	20.79	21.11	20.90	2	/	/	/	3

➤ LTE Band 17

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			23755	23790	23825		23755	23790	23825		23755	23790	23825	
17 / 5M	1	0	22.53	22.55	22.53	0	21.42	21.29	21.68	1	/	/	/	2
	1	12	22.58	22.65	22.65	0	21.53	21.35	21.75	1	/	/	/	2
	1	24	22.52	22.47	22.48	0	21.41	21.23	21.62	1	/	/	/	2
	12	0	21.73	21.53	21.45	1	20.62	20.50	20.42	2	/	/	/	3
	12	7	21.67	21.64	21.64	1	20.67	20.70	20.75	2	/	/	/	3
	12	13	21.56	21.66	21.40	1	20.49	20.61	20.42	2	/	/	/	3
	25	0	21.64	21.60	21.45	1	20.62	20.61	20.40	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			23780	23790	23800		23780	23790	23800		23780	23790	23800	
17 / 10M	1	0	22.58	22.54	22.54	0	21.39	22.05	21.58	1	/	/	/	2
	1	25	22.83	22.74	22.82	0	21.60	22.31	21.64	1	/	/	/	2
	1	49	22.57	22.52	22.54	0	21.35	22.07	21.60	1	/	/	/	2
	25	0	21.76	21.66	21.57	1	20.75	20.72	20.60	2	/	/	/	3
	25	12	21.69	21.62	21.62	1	20.76	20.62	20.69	2	/	/	/	3
	25	25	21.79	21.66	21.50	1	20.81	20.65	20.50	2	/	/	/	3
	50	0	21.75	21.68	21.51	1	20.72	20.68	20.55	2	/	/	/	3

➤ LTE Band 25

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26047	26365	26683		26047	26365	26683		26047	26365	26683	
25 / 1.4M	1	0	22.58	22.45	22.29	0	21.38	21.13	20.77	1	/	/	/	2
	1	3	22.79	22.59	22.41	0	21.59	21.40	21.05	1	/	/	/	2
	1	5	22.57	22.42	22.26	0	21.37	21.12	20.73	1	/	/	/	2
	3	0	22.65	22.53	22.32	0	21.67	21.61	20.78	1	/	/	/	2
	3	1	22.73	22.57	22.16	0	21.86	21.55	21.03	1	/	/	/	2
	3	3	22.71	22.48	22.18	0	21.63	21.58	20.81	1	/	/	/	2
	6	0	21.66	21.48	21.06	1	20.59	20.49	19.86	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26055	26365	26675		26055	26365	26675		26055	26365	26675	
25 / 3M	1	0	22.66	22.47	22.25	0	21.46	21.97	21.19	1	/	/	/	2
	1	8	22.65	22.50	22.26	0	21.46	21.99	21.12	1	/	/	/	2
	1	14	22.60	22.40	22.30	0	21.48	21.98	21.17	1	/	/	/	2
	8	0	21.61	21.49	21.29	1	20.73	20.64	20.10	2	/	/	/	3
	8	4	21.65	21.52	21.31	1	20.71	20.64	19.96	2	/	/	/	3
	8	7	21.60	21.44	21.29	1	20.69	20.60	20.27	2	/	/	/	3
	15	0	21.61	21.47	21.26	1	20.67	20.55	19.96	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26065	26365	26665		26065	26365	26665		26065	26365	26665	
25 / 5M	1	0	1852.5 MHz	1882.5 MHz	1912.5 MHz	0	1852.5 MHz	1882.5 MHz	1912.5 MHz	1	/	/	/	2
	1	12	22.53	22.37	22.21	0	21.41	21.14	21.38	1	/	/	/	2
	1	24	22.63	22.50	22.34	0	21.56	21.26	21.44	1	/	/	/	2
	12	0	22.46	22.35	22.25	0	21.36	21.13	21.14	1	/	/	/	2
	12	7	21.56	21.45	21.30	1	20.48	20.47	20.15	2	/	/	/	3
	12	13	21.67	21.51	21.37	1	20.76	20.61	20.06	2	/	/	/	3
	25	0	21.61	21.42	21.27	1	20.57	20.39	19.95	2	/	/	/	3
			21.56	21.43	21.24	1	20.59	20.48	20.18	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26090	26365	26640		26090	26365	26640		26090	26365	26640	
25 / 10M	1	0	1855.0 MHz	1882.5 MHz	1910.0 MHz	0	1855.0 MHz	1882.5 MHz	1910.0 MHz	1	/	/	/	2
	1	25	22.61	22.52	22.31	0	21.42	22.00	20.88	1	/	/	/	2
	1	49	22.72	22.62	22.49	0	21.62	22.06	21.19	1	/	/	/	2
	25	0	22.59	22.46	22.31	0	21.42	21.94	20.86	1	/	/	/	2
	25	12	21.60	21.56	21.53	1	20.69	20.59	20.02	2	/	/	/	3
	25	25	21.66	21.56	21.16	1	20.79	20.60	19.93	2	/	/	/	3
	50	0	21.60	21.42	21.22	1	20.70	20.49	19.99	2	/	/	/	3
			21.61	21.49	21.41	1	20.68	20.55	20.44	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26115	26365	26615		26115	26365	26615		26115	26365	26615	
25 / 15M	1	0	1857.5 MHz	1882.5 MHz	1907.5 MHz	0	1857.5 MHz	1882.5 MHz	1907.5 MHz	1	/	/	/	2
	1	37	22.56	22.41	22.29	0	21.75	21.93	21.30	1	/	/	/	2
	1	74	22.61	22.44	22.34	0	21.82	22.02	21.34	1	/	/	/	2
	36	0	22.47	22.39	22.21	0	21.68	21.89	21.18	1	/	/	/	2
	36	20	21.72	21.57	21.43	1	20.69	20.55	20.44	2	/	/	/	3
	36	39	21.71	21.58	21.39	1	20.66	20.50	20.43	2	/	/	/	3
	75	0	21.64	21.46	21.29	1	20.62	20.43	20.28	2	/	/	/	3
			21.70	21.49	21.41	1	20.65	20.48	20.40	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26140	26365	26590		26140	26365	26590		26140	26365	26590	
25 / 20M	1	0	1860.0 MHz	1882.5 MHz	1905.0 MHz	0	1860.0 MHz	1882.5 MHz	1905.0 MHz	1	/	/	/	2
	1	50	22.39	22.23	22.17	0	21.44	21.72	21.33	1	/	/	/	2
	1	99	22.74	22.62	22.45	0	21.86	22.05	21.67	1	/	/	/	2
	50	0	22.29	22.13	22.10	0	21.40	21.59	21.25	1	/	/	/	2
	50	25	21.70	21.58	21.33	1	20.69	20.57	20.34	2	/	/	/	3
	50	50	21.67	21.54	21.38	1	20.68	20.48	20.38	2	/	/	/	3
	100	0	21.60	21.43	21.10	1	20.65	20.45	20.08	2	/	/	/	3
			21.67	21.47	21.24	1	20.67	20.54	20.28	2	/	/	/	3

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➤ LTE Band 26

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26697	26865	27033		26697	26865	27033		26697	26865	27033	
			814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz	
26 / 1.4M	1	0	22.80	23.10	23.08	0	21.65	22.05	21.89	1	/	/	/	2
	1	2	23.03	23.26	23.27	0	21.85	22.27	22.04	1	/	/	/	2
	1	5	22.80	23.05	23.03	0	21.69	22.05	21.94	1	/	/	/	2
	3	0	22.89	23.12	23.19	0	21.97	22.14	22.20	1	/	/	/	2
	3	1	22.97	23.24	23.23	0	22.14	22.45	22.39	1	/	/	/	2
	3	3	22.94	23.19	23.24	0	22.03	22.12	22.19	1	/	/	/	2
	6	0	21.85	22.13	22.15	1	20.74	21.21	21.13	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26705	26865	27025		26705	26865	27025		26705	26865	27025	
			815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz	
26 / 3M	1	0	22.85	23.08	23.09	0	21.69	21.91	22.66	1	/	/	/	2
	1	7	22.90	23.15	23.19	0	21.75	21.98	22.63	1	/	/	/	2
	1	14	22.88	23.06	23.12	0	21.72	21.95	22.58	1	/	/	/	2
	8	0	21.83	22.08	22.13	1	20.93	21.20	21.24	2	/	/	/	3
	8	3	21.94	22.13	22.19	1	20.98	21.21	21.35	2	/	/	/	3
	8	7	21.84	22.09	22.14	1	20.95	21.19	21.28	2	/	/	/	3
	15	0	21.91	22.12	22.11	1	20.98	21.20	21.19	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26715	26865	27015		26715	26865	27015		26715	26865	27015	
			816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz	
26 / 5M	1	0	22.80	23.04	23.12	0	21.61	21.89	21.92	1	/	/	/	2
	1	12	22.91	23.12	23.29	0	21.86	22.06	21.98	1	/	/	/	2
	1	24	22.77	23.04	23.05	0	21.64	21.92	21.86	1	/	/	/	2
	12	0	21.79	22.03	22.04	1	20.73	21.03	21.06	2	/	/	/	3
	12	6	21.91	22.17	22.22	1	21.01	21.33	21.33	2	/	/	/	3
	12	13	21.92	22.06	22.19	1	20.85	21.04	21.21	2	/	/	/	3
	25	0	21.90	22.06	22.16	1	20.89	21.17	21.23	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26740	26865	26990		26740	26865	26990		26740	26865	26990	
			819.0 MHz	831.5 MHz	844.0 MHz		819.0 MHz	831.5 MHz	844.0 MHz		819.0 MHz	831.5 MHz	844.0 MHz	
26 / 10M	1	0	22.94	23.09	23.09	0	22.37	22.16	21.95	1	/	/	/	2
	1	24	22.98	23.18	23.27	0	22.49	22.29	22.10	1	/	/	/	2
	1	49	22.89	23.11	23.09	0	22.42	22.18	21.91	1	/	/	/	2
	25	0	21.72	22.02	22.35	1	20.86	21.08	21.47	2	/	/	/	3
	25	12	21.86	22.16	22.27	1	20.91	21.29	21.36	2	/	/	/	3
	25	25	21.72	21.99	22.39	1	20.82	21.00	21.44	2	/	/	/	3
	50	0	21.76	22.02	22.39	1	20.83	21.15	21.40	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26765	26865	26965		26765	26865	26965		26765	26865	26965	
26 / 15M	1	0	821.5 MHz	831.5 MHz	841.5 MHz	0	821.5 MHz	831.5 MHz	841.5 MHz	1	/	/	/	2
	1	37	22.86	23.06	23.06	0	21.97	22.58	22.21	1	/	/	/	2
	1	74	23.11	23.19	23.32	0	22.08	22.72	22.33	1	/	/	/	2
	36	0	22.88	23.11	22.96	0	21.97	22.58	22.21	1	/	/	/	2
	36	19	21.80	22.13	22.25	1	20.78	21.17	21.28	2	/	/	/	3
	36	39	21.93	22.24	22.14	1	20.95	21.24	21.24	2	/	/	/	3
	75	0	21.77	22.15	22.30	1	20.78	21.28	21.33	2	/	/	/	3
			21.78	22.16	22.33	1	20.75	21.17	21.31	2	/	/	/	3

➤ LTE Band 41

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39675	40620	41565		39675	40620	41565		39675	40620	41565	
41 / 5M	1	0	2498.5 MHz	2593.0 MHz	2687.5 MHz	0	2498.5 MHz	2593.0 MHz	2687.5 MHz	1	/	/	/	2
	1	12	22.21	22.05	22.10	0	22.15	21.93	22.20	1	/	/	/	2
	1	24	22.35	22.16	22.24	0	22.25	22.06	22.27	1	/	/	/	2
	12	0	22.24	22.01	22.15	0	22.15	21.91	22.23	1	/	/	/	2
	12	7	22.21	22.05	22.24	1	22.19	22.07	22.28	2	/	/	/	3
	12	13	22.28	22.10	22.25	1	22.35	22.15	22.38	2	/	/	/	3
	25	0	22.25	22.10	22.22	1	22.28	22.10	22.34	2	/	/	/	3
			22.23	22.07	22.14	1	22.24	22.13	22.17	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39700	40620	41540		39700	40620	41540		39700	40620	41540	
41 / 10M	1	0	2501.0 MHz	2593.0 MHz	2685.0 MHz	0	2501.0 MHz	2593.0 MHz	2685.0 MHz	1	/	/	/	2
	1	25	22.12	22.09	22.14	0	22.27	21.83	22.02	1	/	/	/	2
	1	49	22.57	22.41	22.52	0	22.43	22.14	22.35	1	/	/	/	2
	25	0	22.20	22.03	22.25	0	22.25	21.80	22.05	1	/	/	/	2
	25	12	22.24	22.07	22.18	1	22.26	22.12	22.22	2	/	/	/	3
	25	25	22.25	22.08	22.23	1	22.35	22.17	22.30	2	/	/	/	3
	50	0	22.28	22.16	22.25	1	22.30	22.24	22.32	2	/	/	/	3
			22.24	22.08	22.21	1	22.33	22.14	22.22	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39725	40620	41515		39725	40620	41515		39725	40620	41515	
41 / 15M	1	0	2503.5 MHz	2593.0 MHz	2682.5 MHz	0	2503.5 MHz	2593.0 MHz	2682.5 MHz	1	/	/	/	2
	1	37	22.11	22.04	22.08	0	22.27	22.05	21.78	1	/	/	/	2
	1	74	22.17	22.07	22.17	0	22.33	22.15	21.94	1	/	/	/	2
	36	0	22.04	21.90	22.10	0	22.17	21.98	21.89	1	/	/	/	2
	36	20	22.24	22.10	22.18	1	22.28	22.04	22.09	2	/	/	/	3
	36	39	22.26	22.18	22.23	1	22.28	22.10	22.16	2	/	/	/	3
	75	0	22.31	22.14	22.24	1	22.33	22.14	22.17	2	/	/	/	3
			22.28	22.19	22.19	1	22.30	22.08	22.19	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 39750	Mid CH 40620	High CH 41490		Low CH 39750	Mid CH 40620	High CH 41490		Low CH 39750	Mid CH 40620	High CH 41490	
			2506.0 MHz	2593.0 MHz	2680.0 MHz		2506.0 MHz	2593.0 MHz	2680.0 MHz		2506.0 MHz	2593.0 MHz	2680.0 MHz	
41 / 20M	1	0	22.03	21.80	21.80	0	21.95	21.60	22.00	1	/	/	/	2
	1	50	22.61	22.33	22.40	0	22.41	22.13	22.57	1	/	/	/	2
	1	99	22.00	21.76	21.98	0	21.93	21.57	22.10	1	/	/	/	2
	50	0	22.13	21.96	21.92	1	22.17	22.09	22.07	2	/	/	/	3
	50	25	22.24	22.05	22.09	1	22.27	22.09	22.23	2	/	/	/	3
	50	50	22.26	22.11	22.15	1	22.24	22.24	22.27	2	/	/	/	3
	100	0	22.20	22.07	22.13	1	22.23	22.10	22.18	2	/	/	/	3

➤ LTE Band 66 (Power Reduction)

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 131979	CH 132322	CH 132665		CH 131979	CH 132322	CH 132665		CH 131979	CH 132322	CH 132665	
			1710.7 MHz	1745 MHz	1779.3 MHz		1710.7 MHz	1745 MHz	1779.3 MHz		1710.7 MHz	1745 MHz	1779.3 MHz	
66 / 1.4M	1	0	22.62	22.78	22.89	0	21.40	21.49	21.80	1	/	/	/	2
	1	3	22.81	22.96	23.00	0	21.59	21.70	22.02	1	/	/	/	2
	1	5	22.63	22.81	22.84	0	21.41	21.53	21.77	1	/	/	/	2
	3	0	22.67	22.92	22.83	1	21.64	21.95	21.76	2	/	/	/	3
	3	1	22.72	22.91	22.95	1	21.85	21.94	22.08	2	/	/	/	3
	3	3	22.66	22.82	22.95	1	21.64	21.95	21.73	2	/	/	/	3
	6	0	21.68	21.91	21.93	1	20.59	20.81	20.93	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 131987	CH 132322	CH 132657		CH 131987	CH 132322	CH 132657		CH 131987	CH 132322	CH 132657	
			1711.5 MHz	1745 MHz	1778.5 MHz		1711.5 MHz	1745 MHz	1778.5 MHz		1711.5 MHz	1745 MHz	1778.5 MHz	
66 / 3M	1	0	22.71	22.85	22.90	0	21.47	22.28	21.92	1	/	/	/	2
	1	8	22.74	22.86	22.90	0	21.50	22.31	21.88	1	/	/	/	2
	1	14	22.63	22.82	22.91	0	21.44	22.32	21.88	1	/	/	/	2
	8	0	21.72	21.87	21.95	1	20.75	21.01	20.86	2	/	/	/	3
	8	4	21.73	21.94	21.94	1	20.78	20.99	21.09	2	/	/	/	3
	8	7	21.65	21.82	21.93	1	20.71	21.00	20.86	2	/	/	/	3
	15	0	21.63	21.88	21.86	1	20.71	20.90	20.84	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 131997	CH 132322	CH 132647		CH 131997	CH 132322	CH 132647		CH 131997	CH 132322	CH 132647	
			1712.5 MHz	1745 MHz	1777.5 MHz		1712.5 MHz	1745 MHz	1777.5 MHz		1712.5 MHz	1745 MHz	1777.5 MHz	
66 / 5M	1	0	22.59	22.77	22.83	0	21.47	21.48	21.90	1	/	/	/	2
	1	12	22.68	22.93	22.98	0	21.60	21.64	22.09	1	/	/	/	2
	1	24	22.54	22.77	22.83	0	21.44	21.47	21.94	1	/	/	/	2
	12	0	21.62	21.82	21.93	1	20.54	20.80	20.93	2	/	/	/	3
	12	7	21.68	21.91	21.94	1	20.73	20.96	21.08	2	/	/	/	3
	12	13	21.68	21.83	21.90	1	20.63	20.83	20.86	2	/	/	/	3
	25	0	21.65	21.79	21.85	1	20.61	20.89	20.87	2	/	/	/	3

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LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 132022	CH 132322	CH 132622		CH 132022	CH 132322	CH 132622		CH 132022	CH 132322	CH 132622	
			1715 MHz	1745 MHz	1775 MHz		1715 MHz	1745 MHz	1775 MHz		1715 MHz	1745 MHz	1775 MHz	
66 / 10M	1	0	22.73	22.91	22.94	0	21.48	22.30	21.91	1	/	/	/	2
	1	25	22.78	23.03	23.07	0	21.60	22.45	22.02	1	/	/	/	2
	1	49	22.75	22.87	22.91	0	21.52	22.31	21.87	1	/	/	/	2
	25	0	21.70	21.91	21.99	1	20.74	20.93	21.04	2	/	/	/	3
	25	12	21.70	21.88	21.95	1	20.78	20.94	20.97	2	/	/	/	3
	25	25	21.73	21.88	21.89	1	20.84	20.99	20.90	2	/	/	/	3
	50	0	21.71	21.90	21.98	1	20.75	20.93	20.92	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 132047	CH 132322	CH 132597		CH 132047	CH 132322	CH 132597		CH 132047	CH 132322	CH 132597	
			1717.5 MHz	1745 MHz	1772.5 MHz		1717.5 MHz	1745 MHz	1772.5 MHz		1717.5 MHz	1745 MHz	1772.5 MHz	
66 / 15M	1	0	22.59	22.79	22.86	0	21.71	22.24	21.77	1	/	/	/	2
	1	37	22.69	22.89	22.96	0	21.85	22.35	21.92	1	/	/	/	2
	1	74	22.61	22.81	22.79	0	21.82	22.18	21.78	1	/	/	/	2
	36	0	21.73	21.94	22.02	1	20.63	20.86	20.95	2	/	/	/	3
	36	20	21.79	21.96	22.04	1	20.74	20.93	20.99	2	/	/	/	3
	36	39	21.85	22.01	22.00	1	20.75	20.92	20.94	2	/	/	/	3
	75	0	21.81	21.92	22.03	1	20.75	20.91	21.00	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 132072	CH 132322	CH 132572		CH 132072	CH 132322	CH 132572		CH 132072	CH 132322	CH 132572	
			1720 MHz	1745 MHz	1770 MHz		1720 MHz	1745 MHz	1770 MHz		1720 MHz	1745 MHz	1770 MHz	
66 / 20M	1	0	22.44	22.53	22.60	0	21.12	21.94	21.72	1	/	/	/	2
	1	49	22.84	22.94	23.12	0	21.66	22.38	22.24	1	/	/	/	2
	1	99	22.00	22.61	22.69	0	21.55	22.06	21.86	1	/	/	/	2
	50	0	21.66	21.88	21.93	1	20.66	20.92	20.91	2	/	/	/	3
	50	24	21.58	21.82	21.87	1	20.75	20.86	20.92	2	/	/	/	3
	50	50	21.63	21.82	21.86	1	20.78	20.87	20.85	2	/	/	/	3
	100	0	21.72	21.86	21.90	1	20.72	20.88	20.93	2	/	/	/	3

➤ LTE Band 71 (Power Reduction)

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133147	CH 133297	CH 133447		CH 133147	CH 133297	CH 133447		CH 133147	CH 133297	CH 133447	
			665.5 MHz	680.5 MHz	695.5 MHz		665.5 MHz	680.5 MHz	695.5 MHz		665.5 MHz	680.5 MHz	695.5 MHz	
71 / 5M	1	0	22.96	22.79	22.61	0	21.61	21.90	21.49	1	/	/	/	2
	1	12	22.92	22.84	22.77	0	21.62	22.04	21.58	1	/	/	/	2
	1	24	22.89	22.69	22.65	0	21.56	21.89	21.51	1	/	/	/	2
	12	0	21.80	21.84	21.67	1	20.71	20.81	20.62	2	/	/	/	3
	12	7	21.89	21.90	21.79	1	21.00	21.00	20.77	2	/	/	/	3
	12	13	21.84	21.74	21.67	1	20.83	20.77	20.65	2	/	/	/	3
	25	0	21.80	21.79	21.61	1	20.84	20.78	20.72	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133172	CH 133297	CH 133422		CH 133172	CH 133297	CH 133422		CH 133172	CH 133297	CH 133422	
			668 MHz	680.5 MHz	693 MHz		668 MHz	680.5 MHz	693 MHz		668 MHz	680.5 MHz	693 MHz	
71 / 10M	1	0	22.90	22.77	22.69	0	21.71	22.30	21.71	1	/	/	/	2
	1	25	22.91	22.89	22.78	0	21.74	22.47	21.87	1	/	/	/	2
	1	49	22.90	22.79	22.70	0	21.66	22.31	21.72	1	/	/	/	2
	25	0	21.90	21.82	21.82	1	21.02	20.87	20.83	2	/	/	/	3
	25	12	21.90	21.80	21.65	1	21.01	20.88	20.78	2	/	/	/	3
	25	25	21.88	21.75	21.73	1	21.00	20.85	20.72	2	/	/	/	3
	50	0	21.93	21.85	21.79	1	20.99	20.85	20.77	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133197	CH 133297	CH 133397		CH 133197	CH 133297	CH 133397		CH 133197	CH 133297	CH 133397	
			670.5 MHz	680.5 MHz	690.5 MHz		670.5 MHz	680.5 MHz	690.5 MHz		670.5 MHz	680.5 MHz	690.5 MHz	
71 / 15M	1	0	22.91	22.75	22.62	0	22.31	21.72	21.79	1	/	/	/	2
	1	37	22.94	22.82	22.75	0	22.39	21.83	21.90	1	/	/	/	2
	1	74	22.73	22.76	22.62	0	22.31	21.75	21.82	1	/	/	/	2
	36	0	22.01	21.86	21.78	1	20.98	20.82	20.76	2	/	/	/	3
	36	20	21.96	21.90	21.86	1	20.92	20.96	20.76	2	/	/	/	3
	36	39	22.01	21.86	21.82	1	21.01	20.86	20.74	2	/	/	/	3
	75	0	21.99	21.84	21.78	1	21.05	20.79	20.79	2	/	/	/	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133222	CH 133322	CH 133372		CH 133222	CH 133322	CH 133372		CH 133222	CH 133322	CH 133372	
			673 MHz	683 MHz	688 MHz		673 MHz	683 MHz	688 MHz		673 MHz	683 MHz	688 MHz	
71 / 20M	1	0	22.59	22.53	22.53	0	22.01	21.70	21.59	1	/	/	/	2
	1	49	22.93	22.97	22.92	0	22.37	22.07	22.07	1	/	/	/	2
	1	99	22.60	22.57	22.50	0	22.05	21.68	21.52	1	/	/	/	2
	50	0	21.84	21.84	21.92	1	21.01	20.81	20.90	2	/	/	/	3
	50	24	21.88	21.76	21.78	1	20.88	20.82	20.81	2	/	/	/	3
	50	50	21.90	21.84	21.74	1	20.97	20.83	20.74	2	/	/	/	3
	100	0	21.87	21.79	21.83	1	20.92	20.80	20.82	2	/	/	/	3

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4.3.4. Conducted Power of WLAN

The measuring conducted average power is shown as below.

Band	Mode	Channel	Frequency (MHz)	Average Power (dBm)
2.4GHz	802.11b	1	2412	10.85
		6	2437	10.82
		11	2462	10.23
	802.11g	1	2412	9.11
		6	2437	9.06
		11	2462	8.34
	802.11n-HT20	1	2412	8.10
		6	2437	8.07
		11	2462	7.32
	802.11n-HT40	3	2422	8.74
		6	2437	8.57
		9	2452	8.68

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11a	U-NII-1	36	5180	8.27
		44	5220	8.36
		48	5240	8.37
	U-NII-2A	52	5260	8.48
		60	5300	8.56
		64	5320	8.66
	U-NII-3	149	5745	8.87
		157	5785	8.81
		165	5825	8.80

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11n-HT20	U-NII-1	36	5180	7.77
		44	5220	7.79
		48	5240	7.88
	U-NII-2A	52	5260	7.87
		60	5300	7.69
		64	5320	7.78
	U-NII-3	149	5745	7.71
		157	5785	7.60
		165	5825	7.72

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11n-HT40	U-NII-1	38	5190	7.74
		46	5230	7.78
	U-NII-2A	54	5270	7.84
		62	5310	7.94
	U-NII-3	151	5755	7.65
		159	5795	7.66

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11ac-VHT20	U-NII-1	36	5180	3.81
		44	5220	3.94
		48	5240	3.93
	U-NII-2A	52	5260	3.89
		60	5300	3.87
		64	5320	3.79
	U-NII-3	149	5745	3.57
		157	5785	3.60
		165	5825	3.54

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11ac-VHT40	U-NII-1	38	5190	3.73
		46	5230	3.64
	U-NII-2A	54	5270	3.83
		62	5310	3.81
	U-NII-3	151	5755	3.71
		159	5795	3.86

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11ac-VHT80	U-NII-1	42	5210	4.04
	U-NII-2A	58	5290	4.23
	U-NII-3	155	5775	4.46

4.3.5. Conducted Power of BT

Mode	Modulation	Channel	Frequency (MHz)	Average Power (dBm)
BR + EDR	GFSK	0	2402	6.50
		39	2441	6.03
		78	2480	6.37
	$\pi/4$ -DQPSK	0	2402	4.60
		39	2441	4.20
		78	2480	4.57
	8-DPSK	0	2402	4.59
		39	2441	4.19
		78	2480	4.58

Mode	Modulation	Channel	Frequency (MHz)	Average Power (dBm)
LE	GFSK	0	2402	-5.71
		19	2440	-5.87
		39	2480	-5.90

4.4. SAR TESTING RESULTS

4.4.1. SAR Test Reduction Considerations

KDB 447498 D01 General RF Exposure Guidance

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- a) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- b) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- c) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 941225 D01 3G SAR Procedures

a) GSM SAR Test Reduction

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data 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. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

b) 3G SAR Test Reduction Procedure

The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

KDB 941225 D05 SAR for LTE Devices

- a) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

- b) QPSK with 100% RB allocation

SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

- c) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> 1/2$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

- d) Others channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is $> 1/2$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

KDB 941225 D06 Hot Spot SAR

Hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.

Antenna	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
WWAN-A	N/A	Yes	N/A	Yes	N/A	Yes
WWAN-B	N/A	Yes	N/A	Yes	N/A	N/A
WLAN / BT	N/A	Yes	N/A	Yes	Yes	N/A

KDB 248227 D01 Wi-Fi SAR

- a) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is ≤ 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- b) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is ≤ 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
- c) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.
- d) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

4.4.2. SAR Results for Body Exposure Condition

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Channel	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
1	GSM 850	GPRS10	Rear Face	0	128	-	-	32.0	31.32	0.03	0.324	1.17	0.379	--
	GSM 850	GPRS10	Right Side	0	128	-	-	32.0	31.32	0.13	0.189	1.17	0.221	--
	GSM 850	GPRS10	Bottom Side	0	128	-	-	32.0	31.32	-0.03	0.138	1.17	0.161	--
2	PCS 1900	GPRS12	Rear Face	0	810	-	-	16.0	15.74	-0.09	0.827	1.06	0.878	--
	PCS 1900	GPRS12	Rear Face	0	810	-	-	16.0	15.74	-0.03	0.819	1.06	0.870	REPEAT
	PCS 1900	GPRS12	Right Side	0	810	-	-	16.0	15.74	0.10	0.216	1.06	0.229	--
	PCS 1900	GPRS12	Bottom Side	0	810	-	-	16.0	15.74	0.19	0.217	1.06	0.230	--
	PCS 1900	GPRS12	Rear Face	0	512	-	-	16.0	15.45	-0.14	0.618	1.14	0.701	--
	PCS 1900	GPRS12	Rear Face	0	661	-	-	16.0	15.59	-0.16	0.694	1.10	0.763	--
	PCS 1900	GPRS12	Rear Face	0	810	-	-	16.0	15.59	-0.16	0.694	1.10	0.763	--
3	PCS 1900	GPRS12	Rear Face	0.9	810	-	-	25.5	25.18	-0.05	0.245	1.08	0.264	--
	PCS 1900	GPRS12	Right Side	0.9	810	-	-	25.5	25.18	-0.03	0.0463	1.08	0.050	--
	PCS 1900	GPRS12	Bottom Side	0.9	810	-	-	25.5	25.18	0.04	0.0997	1.08	0.107	--
4	WCDMA II	RMC12.2K	Rear Face	0	9262	-	-	17.0	16.40	-0.03	0.694	1.15	0.797	--
	WCDMA II	RMC12.2K	Right Side	0	9262	-	-	17.0	16.40	0.03	0.27	1.15	0.310	--
	WCDMA II	RMC12.2K	Bottom Side	0	9262	-	-	17.0	16.40	0.05	0.239	1.15	0.274	--
5	WCDMA II	RMC12.2K	Rear Face	0.9	9262	-	-	22.5	21.87	-0.08	0.825	1.16	0.954	--
	WCDMA II	RMC12.2K	Rear Face	0.9	9262	-	-	22.5	21.87	0.06	0.79	1.16	0.913	REPEAT
	WCDMA II	RMC12.2K	Right Side	0.9	9262	-	-	22.5	21.87	0.08	0.398	1.16	0.460	--
	WCDMA II	RMC12.2K	Bottom Side	0.9	9262	-	-	22.5	21.87	0.18	0.481	1.16	0.556	--
	WCDMA II	RMC12.2K	Rear Face	0.9	9400	-	-	22.5	21.78	0.02	0.801	1.18	0.945	--
	WCDMA II	RMC12.2K	Rear Face	0.9	9538	-	-	22.5	21.70	0.06	0.777	1.20	0.934	--
6	WCDMA IV	RMC12.2K	Rear Face	0	1513	-	-	17.0	16.41	-0.12	0.627	1.15	0.718	--
	WCDMA IV	RMC12.2K	Right Side	0	1513	-	-	17.0	16.41	0.03	0.289	1.15	0.331	--
	WCDMA IV	RMC12.2K	Bottom Side	0	1513	-	-	17.0	16.41	0.02	0.24	1.15	0.275	--
7	WCDMA IV	RMC12.2K	Rear Face	0.9	1312	-	-	22.5	21.85	0.14	0.45	1.16	0.523	--
	WCDMA IV	RMC12.2K	Right Side	0.9	1312	-	-	22.5	21.85	0.04	0.165	1.16	0.192	--
	WCDMA IV	RMC12.2K	Bottom Side	0.9	1312	-	-	22.5	21.85	0.18	0.219	1.16	0.254	--

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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Channel	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
8	WCDMA V	RMC12.2K	Rear Face	0	4182	-	-	22.5	22.23	-0.09	0.353	1.06	0.376	--
	WCDMA V	RMC12.2K	Right Side	0	4182	-	-	22.5	22.23	0.15	0.256	1.06	0.272	--
	WCDMA V	RMC12.2K	Bottom Side	0	4182	-	-	22.5	22.23	0.09	0.167	1.06	0.178	--
9	LTE Band 5	QPSK10M	Rear Face	0	20600	1	25	20.0	19.65	-0.12	0.829	1.08	0.899	--
	LTE Band 5	QPSK10M	Rear Face	0	20600	1	25	20.0	19.65	-0.07	0.814	1.08	0.882	REPEAT
	LTE Band 5	QPSK10M	Right Side	0	20600	1	25	20.0	19.65	0.03	0.565	1.08	0.612	--
	LTE Band 5	QPSK10M	Bottom Side	0	20600	1	25	20.0	19.65	0.00	0.122	1.08	0.132	--
	LTE Band 5	QPSK10M	Rear Face	0	20450	1	25	20.0	19.63	-0.04	0.8	1.09	0.871	--
	LTE Band 5	QPSK10M	Rear Face	0	20525	1	25	20.0	19.61	-0.15	0.779	1.09	0.852	--
	LTE Band 5	QPSK10M	Rear Face	0	20600	25	25	19.0	18.75	0.01	0.663	1.06	0.702	--
	LTE Band 5	QPSK10M	Right Side	0	20600	25	25	19.0	18.75	0.03	0.458	1.06	0.485	--
	LTE Band 5	QPSK10M	Bottom Side	0	20600	25	25	19.0	18.75	0.07	0.0942	1.06	0.100	--
	LTE Band 5	QPSK10M	Rear Face	0	20450	100	0	19.0	18.70	-0.14	0.616	1.07	0.660	--
	10	LTE Band 5	QPSK10M	Rear Face	0.9	20450	1	25	24.0	23.55	0.00	0.504	1.11	0.559
LTE Band 5		QPSK10M	Right Side	0.9	20450	1	25	24.0	23.55	0.16	0.348	1.11	0.386	--
LTE Band 5		QPSK10M	Bottom Side	0.9	20450	1	25	24.0	23.55	-0.06	0.215	1.11	0.238	--
LTE Band 5		QPSK10M	Rear Face	0.9	20600	25	25	23.0	22.58	-0.07	0.425	1.10	0.468	--
LTE Band 5		QPSK10M	Right Side	0.9	20600	25	25	23.0	22.58	0.02	0.319	1.10	0.351	--
LTE Band 5		QPSK10M	Bottom Side	0.9	20600	25	25	23.0	22.58	0.01	0.159	1.10	0.175	--
11	LTE Band 12	QPSK10M	Rear Face	0	23060	1	25	17.5	17.25	-0.09	0.482	1.06	0.511	--
	LTE Band 12	QPSK10M	Right Side	0	23060	1	25	17.5	17.25	0.05	0.216	1.06	0.229	--
	LTE Band 12	QPSK10M	Bottom Side	0	23060	1	25	17.5	17.25	0.00	0.0403	1.06	0.043	--
	LTE Band 12	QPSK10M	Rear Face	0	23095	25	0	17.0	16.30	-0.09	0.386	1.17	0.454	--
	LTE Band 12	QPSK10M	Right Side	0	23095	25	0	17.0	16.30	0.05	0.174	1.17	0.204	--
	LTE Band 12	QPSK10M	Bottom Side	0	23095	25	0	17.0	16.30	-0.01	0.0319	1.17	0.037	--
12	LTE Band 12	QPSK10M	Rear Face	0.9	23095	1	25	23.5	23.12	0.00	0.245	1.09	0.267	--
	LTE Band 12	QPSK10M	Right Side	0.9	23095	1	25	23.5	23.12	0.12	0.138	1.09	0.151	--
	LTE Band 12	QPSK10M	Bottom Side	0.9	23095	1	25	23.5	23.12	-0.01	0.0792	1.09	0.086	--
	LTE Band 12	QPSK10M	Rear Face	0.9	23095	25	25	22.5	22.09	-0.02	0.195	1.10	0.214	--
	LTE Band 12	QPSK10M	Right Side	0.9	23095	25	25	22.5	22.09	0.12	0.11	1.10	0.121	--
	LTE Band 12	QPSK10M	Bottom Side	0.9	23095	25	25	22.5	22.09	-0.03	0.0646	1.10	0.071	--

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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Channel	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
	LTE Band 25	QPSK20M	Rear Face	0	26140	1	50	17.5	16.99	-0.03	0.857	1.12	0.964	--
	LTE Band 25	QPSK20M	Right Side	0	26140	1	50	17.5	16.99	0.03	0.283	1.12	0.318	--
	LTE Band 25	QPSK20M	Bottom Side	0	26140	1	50	17.5	16.99	0.02	0.276	1.12	0.310	--
	LTE Band 25	QPSK20M	Rear Face	0	26365	1	50	17.5	16.81	0.00	0.92	1.17	1.078	--
13	LTE Band 25	QPSK20M	Rear Face	0	26590	1	50	17.5	16.80	-0.07	0.953	1.17	1.120	--
	LTE Band 25	QPSK20M	Rear Face	0	26590	1	50	17.5	16.80	-0.01	0.947	1.17	1.113	REPEAT
	LTE Band 25	QPSK20M	Rear Face	0	26140	100	0	16.5	15.83	-0.10	0.585	1.17	0.683	--
	LTE Band 25	QPSK20M	Rear Face	0	26140	50	0	16.5	15.85	0.03	0.678	1.16	0.787	--
	LTE Band 25	QPSK20M	Right Side	0	26140	50	0	16.5	15.85	0.08	0.224	1.16	0.260	--
	LTE Band 25	QPSK20M	Bottom Side	0	26140	50	0	16.5	15.85	0.03	0.227	1.16	0.264	--
	LTE Band 25	QPSK20M	Rear Face	0.9	26140	1	50	23.0	22.74	-0.05	1.04	1.06	1.104	
	LTE Band 25	QPSK20M	Right Side	0.9	26140	1	50	23.0	22.74	0.00	0.503	1.06	0.534	
	LTE Band 25	QPSK20M	Bottom Side	0.9	26140	1	50	23.0	22.74	0.10	0.556	1.06	0.590	
	LTE Band 25	QPSK20M	Rear Face	0.9	26365	1	50	23.0	22.62	-0.08	1.15	1.09	1.255	
14	LTE Band 25	QPSK20M	Rear Face	0.9	26590	1	50	23.0	22.45	-0.07	1.17	1.14	1.328	
	LTE Band 25	QPSK20M	Rear Face	0.9	26590	1	50	23.0	22.45	0.02	0.931	1.14	1.057	REPEAT
	LTE Band 25	QPSK20M	Rear Face	0.9	26590	1	50	23.0	22.45	-0.02	1	1.14	1.135	With Earphone
	LTE Band 25	QPSK20M	Rear Face	0.9	26140	100	0	22.0	21.67	-0.12	0.898	1.08	0.969	
	LTE Band 25	QPSK20M	Rear Face	0.9	26140	50	0	22.0	21.70	-0.04	0.811	1.07	0.869	
	LTE Band 25	QPSK20M	Right Side	0.9	26140	50	0	22.0	21.70	-0.04	0.367	1.07	0.393	--
	LTE Band 25	QPSK20M	Bottom Side	0.9	26140	50	0	22.0	21.70	0.10	0.437	1.07	0.468	

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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Channel	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
15	LTE Band 26	QPSK15M	Rear Face	0	26965	1	38	20.0	19.73	-0.12	0.73	1.06	0.777	--
	LTE Band 26	QPSK15M	Right Side	0	26965	1	38	20.0	19.73	0.03	0.117	1.06	0.125	--
	LTE Band 26	QPSK15M	Bottom Side	0	26965	1	38	20.0	19.73	0.04	0.0141	1.06	0.015	--
	LTE Band 26	QPSK15M	Rear Face	0	26965	36	39	19.0	18.50	-0.09	0.62	1.12	0.696	--
	LTE Band 26	QPSK15M	Right Side	0	26965	36	39	19.0	18.50	0.02	0.1	1.12	0.112	--
	LTE Band 26	QPSK15M	Bottom Side	0	26965	36	39	19.0	18.50	-0.02	0.012	1.12	0.013	--
16	LTE Band 26	QPSK15M	Rear Face	0.9	26965	1	38	24.0	23.32	-0.06	0.37	1.17	0.433	--
	LTE Band 26	QPSK15M	Right Side	0.9	26965	1	38	24.0	23.32	0.02	0.233	1.17	0.272	--
	LTE Band 26	QPSK15M	Bottom Side	0.9	26965	1	38	24.0	23.32	-0.03	0.154	1.17	0.180	--
	LTE Band 26	QPSK15M	Rear Face	0.9	26965	36	39	23.0	22.30	-0.08	0.294	1.17	0.345	--
	LTE Band 26	QPSK15M	Right Side	0.9	26965	36	39	23.0	22.30	0.10	0.194	1.17	0.228	--
	LTE Band 26	QPSK15M	Bottom Side	0.9	26965	36	39	23.0	22.30	-0.02	0.119	1.17	0.140	--
17	LTE Band 41	QPSK20M	Rear Face	0	39750	1	50	18.0	17.61	-0.18	0.47	1.09	0.514	--
	LTE Band 41	QPSK20M	Right Side	0	39750	1	50	18.0	17.61	0.06	0.207	1.09	0.226	--
	LTE Band 41	QPSK20M	Bottom Side	0	39750	1	50	18.0	17.61	-0.03	0.109	1.09	0.119	--
	LTE Band 41	QPSK20M	Rear Face	0	41490	50	50	18.0	17.32	-0.03	0.435	1.17	0.509	--
	LTE Band 41	QPSK20M	Right Side	0	41490	50	50	18.0	17.32	-0.08	0.206	1.17	0.241	--
	LTE Band 41	QPSK20M	Bottom Side	0	41490	50	50	18.0	17.32	0.05	0.13	1.17	0.152	--
	LTE Band 41	QPSK20M	Rear Face	0.9	39750	1	50	23.0	22.61	0.05	0.783	1.09	0.857	--
	LTE Band 41	QPSK20M	Right Side	0.9	39750	1	50	23.0	22.61	0.03	1.02	1.09	1.116	--
	LTE Band 41	QPSK20M	Right Side	0.9	39750	1	50	23.0	22.61	0.04	0.97	1.09	1.061	REPEAT
	LTE Band 41	QPSK20M	Bottom Side	0.9	39750	1	50	23.0	22.61	0.03	0.0828	1.09	0.091	--
	LTE Band 41	QPSK20M	Rear Face	0.9	39750	50	50	23.0	22.26	0.13	0.744	1.19	0.882	--
	18	LTE Band 41	QPSK20M	Right Side	0.9	39750	50	50	23.0	22.26	0.03	0.97	1.19	1.150
LTE Band 41		QPSK20M	Bottom Side	0.9	39750	50	50	23.0	22.26	-0.07	0.0807	1.19	0.096	--
LTE Band 41		QPSK20M	Right Side	0.9	40620	50	50	23.0	22.11	0.10	0.535	1.23	0.657	--
LTE Band 41		QPSK20M	Right Side	0.9	41490	50	50	23.0	22.15	0.14	0.397	1.22	0.483	--
LTE Band 41		QPSK20M	Right Side	0.9	39750	100	0	22.5	22.20	0.03	0.989	1.07	1.060	--

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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Channel	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
	LTE Band 66	QPSK20M	Rear Face	0	132322	1	50	17.5	17.13	-0.08	0.801	1.09	0.872	--
	LTE Band 66	QPSK20M	Right Side	0	132322	1	50	17.5	17.13	0.18	0.345	1.09	0.376	--
	LTE Band 66	QPSK20M	Bottom Side	0	132322	1	50	17.5	17.13	0.17	0.253	1.09	0.275	--
	LTE Band 66	QPSK20M	Rear Face	0	132072	1	50	17.5	16.91	-0.17	0.76	1.15	0.871	--
19	LTE Band 66	QPSK20M	Rear Face	0	132572	1	50	17.5	17.10	-0.11	0.842	1.10	0.923	--
	LTE Band 66	QPSK20M	Rear Face	0	132572	1	50	17.5	17.10	-0.11	0.836	1.10	0.917	REPEAT
	LTE Band 66	QPSK20M	Rear Face	0	132572	50	0	16.5	16.01	-0.14	0.662	1.12	0.741	--
	LTE Band 66	QPSK20M	Right Side	0	132572	50	0	16.5	16.01	0.12	0.285	1.12	0.319	--
	LTE Band 66	QPSK20M	Bottom Side	0	132572	50	0	16.5	16.01	0.03	0.218	1.12	0.244	--
20	LTE Band 66	QPSK20M	Rear Face	0.9	132572	1	50	23.5	23.12	0.00	0.719	1.09	0.785	--
	LTE Band 66	QPSK20M	Right Side	0.9	132572	1	50	23.5	23.12	0.16	0.29	1.09	0.317	--
	LTE Band 66	QPSK20M	Bottom Side	0.9	132572	1	50	23.5	23.12	0.20	0.412	1.09	0.450	--
	LTE Band 66	QPSK20M	Rear Face	0.9	132572	50	0	22.5	21.93	-0.12	0.552	1.14	0.629	--
	LTE Band 66	QPSK20M	Right Side	0.9	132572	50	0	22.5	21.93	-0.04	0.225	1.14	0.257	--
	LTE Band 66	QPSK20M	Bottom Side	0.9	132572	50	0	22.5	21.93	0.02	0.321	1.14	0.366	--
	LTE Band 71	QPSK20M	Rear Face	0	133222	1	50	20.5	20.25	-0.04	0.798	1.06	0.845	--
	LTE Band 71	QPSK20M	Right Side	0	133222	1	50	20.5	20.25	0.03	0.502	1.06	0.532	--
	LTE Band 71	QPSK20M	Bottom Side	0	133222	1	50	20.5	20.25	0.07	0.0836	1.06	0.089	--
	LTE Band 71	QPSK20M	Rear Face	0	133222	50	0	20.0	19.32	-0.09	0.687	1.17	0.803	--
	LTE Band 71	QPSK20M	Right Side	0	133222	50	0	20.0	19.32	0.04	0.379	1.17	0.443	--
	LTE Band 71	QPSK20M	Bottom Side	0	133222	50	0	20.0	19.32	0.02	0.0548	1.17	0.064	--
	LTE Band 71	QPSK20M	Rear Face	0	133322	1	50	20.5	20.16	-0.03	1.09	1.08	1.179	--
21	LTE Band 71	QPSK20M	Rear Face	0	133372	1	50	20.5	20.19	-0.13	1.11	1.07	1.192	--
	LTE Band 71	QPSK20M	Rear Face	0	133372	1	50	20.5	20.19	-0.02	1.1	1.07	1.181	REPEAT
	LTE Band 71	QPSK20M	Rear Face	0	133222	100	0	20.0	19.30	-0.11	0.843	1.17	0.990	--
22	LTE Band 71	QPSK20M	Rear Face	0.9	133322	1	50	23.5	22.97	-0.04	0.3	1.13	0.339	--
	LTE Band 71	QPSK20M	Right Side	0.9	133322	1	50	23.5	22.97	-0.08	0.156	1.13	0.176	--
	LTE Band 71	QPSK20M	Bottom Side	0.9	133322	1	50	23.5	22.97	0.00	0.095	1.13	0.107	--
	LTE Band 71	QPSK20M	Rear Face	0.9	133372	50	0	22.5	21.92	-0.10	0.224	1.14	0.256	--
	LTE Band 71	QPSK20M	Right Side	0.9	133372	50	0	22.5	21.92	-0.01	0.117	1.14	0.134	--
	LTE Band 71	QPSK20M	Bottom Side	0.9	133372	50	0	22.5	21.92	-0.04	0.0699	1.14	0.080	--

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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Channel	Duty Cycle	Duty Cycle Scaling Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
	2.4GHz ISM	Bluetooth_DH5	Rear Face	0	0	76.84%	1.3014	7.0	6.50	-0.07	0.196	1.12	0.286	--
	2.4GHz ISM	Bluetooth_DH5	Right Side	0	0	76.84%	1.3014	7.0	6.50	-0.02	0.0045	1.12	0.007	--
22	2.4GHz ISM	Bluetooth_DH5	Top Side	0	0	76.84%	1.3014	7.0	6.50	-0.14	0.31	1.12	0.453	--
	2.4GHz ISM	IEEE 802.11b	Rear Face	0	1	100.00%	1.0000	11.5	10.85	0.09	0.342	1.16	0.397	--
	2.4GHz ISM	IEEE 802.11b	Right Side	0	1	100.00%	1.0000	11.5	10.85	0.02	0.0112	1.16	0.013	--
23	2.4GHz ISM	IEEE 802.11b	Top Side	0	1	100.00%	1.0000	11.5	10.85	0.15	0.398	1.16	0.462	--
	U-NII-1/2A	IEEE 802.11a	Rear Face	0	64	96.52%	1.0361	9.0	8.66	0.02	0.062	1.08	0.069	--
	U-NII-1/2A	IEEE 802.11a	Right Side	0	64	96.52%	1.0361	9.0	8.66	-0.09	0.015	1.08	0.017	--
24	U-NII-1/2A	IEEE 802.11a	Top Side	0	64	96.52%	1.0361	9.0	8.66	0.05	0.155	1.08	0.174	--
	U-NII-3	IEEE 802.11a	Rear Face	0	149	96.52%	1.0361	9.5	8.87	0.01	0.086	1.16	0.103	--
	U-NII-3	IEEE 802.11a	Right Side	0	149	96.52%	1.0361	9.5	8.87	-0.08	0.019	1.16	0.023	--
25	U-NII-3	IEEE 802.11a	Top Side	0	149	96.52%	1.0361	9.5	8.87	-0.09	0.092	1.16	0.110	--

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4.5. SAR MEASUREMENT VARIABILITY

4.5.1 Repeated Measurement

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

- 1) When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
- 2) When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
- 4) If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Band	Mode	Test Position	Channel	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
Body Exposure Condition										
PCS 1900	GPRS12	Rear Face	810	0.827	0.819	1.0098	N/A	N/A	N/A	N/A
WCDMA II	RMC12.2K	Rear Face	9262	0.825	0.79	1.0443	N/A	N/A	N/A	N/A
LTE Band 5	QPSK10M	Rear Face	20600	0.829	0.814	1.0184	N/A	N/A	N/A	N/A
LTE Band 25	QPSK20M	Rear Face	26590	0.953	0.947	1.0063	N/A	N/A	N/A	N/A
LTE Band 41	QPSK20M	Right Side	39750	1.02	0.97	1.0515	N/A	N/A	N/A	N/A
LTE Band 66	QPSK20M	Rear Face	132572	0.842	0.836	1.0072	N/A	N/A	N/A	N/A
LTE Band 71	QPSK20M	Rear Face	133372	1.11	1.1	1.0091	N/A	N/A	N/A	N/A

4.6. SIMULTANEOUS MULTI-BAND TRANSMISSION EVALUATION

4.6.1 Simultaneous Transmission SAR Test Exclusion Considerations

a) Sum of SAR

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

b) SAR to Peak Location Separation Ratio

The simultaneous transmitting antennas in each operating mode and exposure condition combination are considered one pair at a time to determine the SPLSR.

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / R_i$$

The ratio is rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion. When 10-g SAR applies, the ratio must be ≤ 0.10 .

SAR_1 and SAR_2 are the highest reported or estimated SAR values for each antenna in the pair, and R_i is the separation distance in mm between the peak SAR locations for the antenna pair

$$\text{peak location separation distance} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

Where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the area or zoom scans.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna. Due to curvatures on the SAM phantom, when SAR is estimated for one of the antennas in an antenna pair, the measured peak SAR location will be translated onto the test device to determine the peak location separation for the antenna pair.

When SAR is estimated for both antennas, the peak location separation should be determined by the closest physical separation of the antennas, according to the feed-point or geometric center of the antennas.

c) Volume Scan

When the SPLSR is ≤ 0.04 for 1-g SAR and ≤ 0.10 for 10-g SAR, the simultaneous transmission SAR is not required. Otherwise, the enlarged zoom scan and volume scan post-processing procedures will be performed.

4.6.2 Simultaneous Transmission Possibilities

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous Transmission Configurations	Body-worn (Voice / VoIP)
GSM (Voice / Data) + WLAN (Data)	Yes
WCDMA (Voice / Data) + WLAN (Data)	Yes
LTE (Data) + WLAN (Data)	Yes
GSM (Voice / Data) + BT (Data)	Yes
WCDMA (Voice / Data) + BT (Data)	Yes
LTE (Data) + BT (Data)	Yes
GSM (Voice / Data) + WLAN (Data) + BT (Data)	No
WCDMA (Voice / Data) + WLAN (Data) + BT (Data)	No
LTE (Data) + WLAN (Data) + BT (Data)	No

Note:

- 1) The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.
- 2) The WLAN and Bluetooth cannot transmit simultaneously, so there is no co-location test requirement for WLAN and Bluetooth.

4.6.3 Max. Standalone SAR

Position		GSM Band		WCDMA Band			LTE Band						
		850	1900	II	IV	V	5	12 (17)	25 (2)	26	41	66 (4)	71
Body	Front Face	--	--	--	--	--	--	--	--	--	--	--	--
	Rear Face	0.379	0.878	0.797	0.718	0.376	0.899	0.511	1.120	0.777	0.514	0.923	1.192
	Left Side	--	--	--	--	--	--	--	--	--	--	--	--
	Right Side	0.221	0.229	0.310	0.331	0.272	0.612	0.229	0.318	0.125	0.241	0.376	0.532
	Top Side	--	--	--	--	--	--	--	--	--	--	--	--
	Bottom Side	0.161	0.230	0.274	0.275	0.178	0.132	0.043	0.310	0.015	0.152	0.275	0.089

Position		WLAN			BT
		2.4G	5.2&5.3G	5.8G	2.4G
Body	Front Face	--	--	--	--
	Rear Face	0.397	0.069	0.103	0.286
	Left Side	--	--	--	--
	Right Side	0.013	0.017	0.023	0.007
	Top Side	0.462	0.174	0.110	0.453
	Bottom Side	--	--	--	--

4.6.4 Sum of SAR

WWAN + WLAN (DTS)

Position		Highest Simultaneous Transmission SAR	GSM Band		WCDMA Band			LTE Band						
			850	1900	II	IV	V	5	12 (17)	25 (2)	26	41	66 (4)	71
Body	Front Face	1.589	--	--	--	--	--	--	--	--	--	--	--	--
	Rear Face		0.78	1.28	1.19	1.12	0.77	1.30	0.91	1.52	1.17	0.91	1.32	1.59
	Left Side		--	--	--	--	--	--	--	--	--	--	--	--
	Right Side		0.23	0.24	0.32	0.34	0.29	0.63	0.24	0.33	0.14	0.25	0.39	0.55
	Top Side		0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
	Bottom Side		0.16	0.23	0.27	0.28	0.18	0.13	0.04	0.31	0.02	0.15	0.28	0.09

WWAN + WLAN (NII)

Position		Highest Simultaneous Transmission SAR	GSM Band		WCDMA Band			LTE Band						
			850	1900	II	IV	V	5	12 (17)	25 (2)	26	41	66 (4)	71
Body	Front Face	1.300	--	--	--	--	--	--	--	--	--	--	--	--
	Rear Face		0.48	0.98	0.90	0.82	0.48	1.00	0.61	1.22	0.88	0.62	1.03	1.30
	Left Side		--	--	--	--	--	--	--	--	--	--	--	--
	Right Side		0.24	0.25	0.33	0.35	0.30	0.64	0.25	0.34	0.15	0.26	0.40	0.56
	Top Side		0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
	Bottom Side		0.16	0.23	0.27	0.28	0.18	0.13	0.04	0.31	0.02	0.15	0.28	0.09

WWAN + BT (DSS)

Position		Highest Simultaneous Transmission SAR	GSM Band		WCDMA Band			LTE Band						
			850	1900	II	IV	V	5	12 (17)	25 (2)	26	41	66 (4)	71
Body	Front Face	1.478	--	--	--	--	--	--	--	--	--	--	--	--
	Rear Face		0.67	1.16	1.08	1.00	0.66	1.19	0.80	1.41	1.06	0.80	1.21	1.48
	Left Side		--	--	--	--	--	--	--	--	--	--	--	--
	Right Side		0.23	0.24	0.32	0.34	0.28	0.62	0.24	0.33	0.13	0.25	0.38	0.54
	Top Side		0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
	Bottom Side		0.16	0.23	0.27	0.28	0.18	0.13	0.04	0.31	0.02	0.15	0.28	0.09

*** End of Report ***

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APPENDIX A. SAR PLOTS OF SYSTEM VERIFICATION

The plots for system verification with largest deviation for each SAR system combination are shown as follows.



APPENDIX B. SAR PLOTS OF SAR MEASUREMENT

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.



APPENDIX C. CALIBRATION CERTIFICATE FOR PROBE AND DIPOLE

The calibration certificates are shown as follows.



APPENDIX D. PHOTOGRAPHS OF EUT AND SETUP

The photographs of EUT and setup are shown as follows.

