



	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132072	1720	17.50	18.40	1.230	0.01	0.866	1.065
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	17.24	18.40	1.306	0.05	0.850	1.110
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	17.64	18.40	1.191	0.01	0.806	0.960
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	132072	1720	17.49	18.40	1.233	0.02	0.801	0.988
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	17.44	18.40	1.247	0.03	0.785	0.979
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	17.58	18.40	1.208	0.06	0.785	0.948
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	17.66	18.40	1.186	0.01	0.054	0.064
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	17.64	18.40	1.191	-0.02	0.047	0.056
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	17.66	18.40	1.186	0.06	0.039	0.046
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	17.64	18.40	1.191	0.01	0.033	0.039
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2 Simultaneous	132572	1770	16.01	17.40	1.377	0.01	0.735	1.012
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	132322	1745	22.95	24.00	1.274	0.06	0.063	0.080
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	132322	1745	21.93	23.00	1.279	0.01	0.053	0.068
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	132322	1745	22.95	24.00	1.274	-0.02	0.066	0.084
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	132322	1745	21.93	23.00	1.279	0.06	0.054	0.069
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	132322	1745	22.95	24.00	1.274	0.04	0.101	0.129
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	132322	1745	21.93	23.00	1.279	-0.03	0.082	0.105
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	132322	1745	22.95	24.00	1.274	0.02	0.062	0.079
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	132322	1745	21.93	23.00	1.279	0.01	0.052	0.067
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	17.61	18.60	1.256	0.02	0.929	1.167
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	17.57	18.60	1.268	0.03	0.940	1.192
09	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	17.47	18.60	1.297	-0.06	0.965	1.252
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	17.61	18.60	1.256	0.06	0.740	0.929
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	17.57	18.60	1.268	0.03	0.716	0.908
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	17.47	18.60	1.297	0.06	0.708	0.918
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	17.61	18.60	1.256	0.06	0.294	0.369
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	17.57	18.60	1.268	0.04	0.284	0.360
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	17.61	18.60	1.256	0.14	0.405	0.509
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	17.57	18.60	1.268	0.06	0.400	0.507
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2 Simultaneous	349000	1745	16.47	17.60	1.297	0.02	0.781	1.013
1900MHz																		
10	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	661	1880	22.03	23.30	1.340	0.02	0.909	1.218
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	512	1850.2	21.95	23.30	1.365	0.06	0.875	1.194
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	810	1909.8	21.93	23.30	1.371	0.03	0.882	1.209
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 1	DSI 2	661	1880	22.03	23.30	1.340	0.02	0.785	1.052
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 1	DSI 2	512	1850.2	21.95	23.30	1.365	0.03	0.742	1.013
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 1	DSI 2	810	1909.8	21.93	23.30	1.371	0.01	0.738	1.012
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Left Cheek	0mm	Ant 1	DSI 2	661	1880	22.03	23.30	1.340	-0.06	0.368	0.493
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Left Tilted	0mm	Ant 1	DSI 2	661	1880	22.03	23.30	1.340	0.03	0.512	0.686
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2 Simultaneous	661	1880	21.08	22.30	1.324	0.01	0.758	1.004
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Right Cheek	0mm	Ant 2	DSI 2	661	1880	29.47	30.50	1.268	0.09	0.091	0.115
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Right Tilted	0mm	Ant 2	DSI 2	661	1880	29.47	30.50	1.268	0.04	0.082	0.104
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Left Cheek	0mm	Ant 2	DSI 2	661	1880	29.47	30.50	1.268	-0.03	0.038	0.048
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Left Tilted	0mm	Ant 2	DSI 2	661	1880	29.47	30.50	1.268	-0.07	0.063	0.080
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9400	1880	15.97	17.20	1.327	0.01	0.865	1.148
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9262	1852.4	15.81	17.20	1.377	0.02	0.822	1.132
11	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9538	1907.6	15.96	17.20	1.330	0.01	0.928	1.235
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	9400	1880	15.97	17.20	1.327	0.01	0.773	1.026
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	9262	1852.4	15.81	17.20	1.377	0.06	0.752	1.036
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	9538	1907.6	15.96	17.20	1.330	0.03	0.740	0.985
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	9400	1880	15.97	17.20	1.327	0.01	0.340	0.451
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	9400	1880	15.97	17.20	1.327	0.04	0.558	0.741
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2 Simultaneous	9538	1907.6	14.79	16.20	1.384	0.01	0.718	0.993
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 2	9400	1880	24.06	25.00	1.242	0.03	0.149	0.185
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI 2	9400	1880	24.06	25.00	1.242	0.01	0.157	0.195



	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 2	9400	1880	24.06	25.00	1.242	-0.07	0.173	0.215
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI 2	9400	1880	24.06	25.00	1.242	0.09	0.143	0.178
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	17.25	18.40	1.303	0.01	0.942	1.228
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26140	1860	17.19	18.40	1.321	0.02	0.926	1.224
12	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26590	1905	17.22	18.40	1.312	-0.01	0.948	1.244
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	17.19	18.40	1.321	0.02	0.901	1.190
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	26140	1860	17.11	18.40	1.346	0.01	0.880	1.184
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	26590	1905	17.16	18.40	1.330	0.01	0.916	1.219
	LTE Band 25	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	17.12	18.40	1.343	0.01	0.898	1.206
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	17.25	18.40	1.303	0.04	0.691	0.900
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26140	1860	17.19	18.40	1.321	0.06	0.670	0.885
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26590	1905	17.22	18.40	1.312	0.01	0.666	0.874
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	17.19	18.40	1.321	0.04	0.653	0.863
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	26140	1860	17.11	18.40	1.346	0.05	0.643	0.865
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	26590	1905	17.16	18.40	1.330	-0.03	0.623	0.829
	LTE Band 25	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	17.12	18.40	1.343	0.02	0.610	0.819
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	17.25	18.40	1.303	0.01	0.325	0.424
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	17.19	18.40	1.321	-0.02	0.304	0.402
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	17.25	18.40	1.303	0.06	0.532	0.693
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	17.19	18.40	1.321	0.02	0.490	0.647
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2 Simultaneous	26590	1905	16.28	17.40	1.294	0.04	0.726	0.940
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	26340	1880	22.72	24.00	1.343	0.02	0.099	0.133
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	26340	1880	21.75	23.00	1.334	0.04	0.082	0.109
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	26340	1880	22.72	24.00	1.343	-0.02	0.104	0.140
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	26340	1880	21.75	23.00	1.334	0.09	0.086	0.115
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	26340	1880	22.72	24.00	1.343	-0.03	0.121	0.162
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	26340	1880	21.75	23.00	1.334	0.01	0.100	0.133
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	26340	1880	22.72	24.00	1.343	0.03	0.100	0.134
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	26340	1880	21.75	23.00	1.334	0.05	0.084	0.112
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376000	1880	18.09	18.90	1.205	0.02	0.732	0.882
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	372000	1860	17.97	18.90	1.239	0.06	0.716	0.887
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	380000	1900	18.02	18.90	1.225	0.04	0.709	0.868
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376000	1880	18.01	18.90	1.227	-0.02	0.874	1.073
13	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	372000	1860	17.92	18.90	1.253	-0.05	0.995	1.247
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	380000	1900	17.88	18.90	1.265	-0.01	0.685	0.866
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376000	1880	17.93	18.90	1.250	0.02	0.747	0.934
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	376000	1880	18.09	18.90	1.205	0.01	0.625	0.753
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	376000	1880	18.01	18.90	1.227	0.04	0.612	0.751
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	376000	1880	18.09	18.90	1.205	0.02	0.294	0.354
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	376000	1880	18.01	18.90	1.227	-0.02	0.296	0.363
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	376000	1880	18.09	18.90	1.205	0.01	0.447	0.539
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	376000	1880	18.01	18.90	1.227	0.01	0.478	0.587
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2 Simultaneous	372000	1860	16.93	17.90	1.250	0.01	0.782	0.978



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	17.54	18.80	1.337	-	-	0.04	0.803	1.073
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	20850	2510	17.42	18.80	1.374	-	-	-0.02	0.754	1.036
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	21350	2560	17.51	18.80	1.346	-	-	0.09	0.780	1.050
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	17.41	18.80	1.377	-	-	-0.03	0.688	0.948
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	20850	2510	17.32	18.80	1.406	-	-	0.03	0.679	0.955
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	21350	2560	17.27	18.80	1.422	-	-	0.01	0.659	0.937
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	17.42	18.80	1.374	-	-	0.04	0.688	0.945
14	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	17.54	18.80	1.337	-	-	-0.09	0.931	1.244
	LTE Band 7C	20M	QPSK	1	99	-	Right Tilted	0mm	Ant 1	DSI 2	21100+21298	2535+2554.8	17.48	18.80	1.355	-	-	0.01	0.912	1.236
	LTE Band 7C	20M	QPSK	1	99	-	Right Tilted	0mm	Ant 1	DSI 2	20850+21048	2510+2529.8	17.26	18.80	1.426	-	-	0.03	0.868	1.237
	LTE Band 7C	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	21350+21152	2560+2540.2	17.36	18.80	1.393	-	-	0.04	0.875	1.219
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	20850	2510	17.42	18.80	1.374	-	-	0.09	0.887	1.219
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	21350	2560	17.51	18.80	1.346	-	-	0.04	0.838	1.128
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	17.41	18.80	1.377	-	-	-0.02	0.779	1.073
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	20850	2510	17.32	18.80	1.406	-	-	0.09	0.785	1.104
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	21350	2560	17.27	18.80	1.422	-	-	0.01	0.749	1.065
	LTE Band 7	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	17.42	18.80	1.374	-	-	0.04	0.779	1.070
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	17.54	18.80	1.337	-	-	-0.02	0.540	0.722
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	17.41	18.80	1.377	-	-	0.01	0.526	0.724
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	17.54	18.80	1.337	-	-	-0.03	0.742	0.992
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	20850	2510	17.42	18.80	1.374	-	-	0.06	0.723	0.993
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	21350	2560	17.51	18.80	1.346	-	-	0.01	0.706	0.950
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	17.41	18.80	1.377	-	-	0.09	0.630	0.868
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	20850	2510	17.32	18.80	1.406	-	-	0.06	0.618	0.869
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	21350	2560	17.27	18.80	1.422	-	-	0.02	0.622	0.885
	LTE Band 7	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	17.42	18.80	1.374	-	-	0.06	0.650	0.893
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2 Simultaneous	21100	2535	16.44	17.80	1.368	-	-	0.01	0.791	1.082
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	23.04	24.00	1.247	-	-	0.07	0.436	0.544
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	21.98	23.00	1.265	-	-	0.03	0.372	0.470
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 2	DSI 2	21100+21298	2535+2554.8	22.81	24.00	1.315	-	-	0.01	0.405	0.533
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	21100	2535	23.04	24.00	1.247	-	-	0.01	0.180	0.225
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	21100	2535	21.98	23.00	1.265	-	-	0.06	0.153	0.194
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	21100	2535	23.04	24.00	1.247	-	-	-0.03	0.190	0.237
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	21100	2535	21.98	23.00	1.265	-	-	0.01	0.165	0.209
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	21100	2535	23.04	24.00	1.247	-	-	0.05	0.149	0.186
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	21100	2535	21.98	23.00	1.265	-	-	0.01	0.122	0.154
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	16.07	16.90	1.211	-	-	0.01	0.790	0.956
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	15.90	16.90	1.259	-	-	-0.03	0.805	1.013
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	15.82	16.90	1.282	-	-	0.02	0.752	0.964
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	16.07	16.90	1.211	-	-	0.02	0.963	1.166
15	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	15.90	16.90	1.259	-	-	0.02	0.996	1.254
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	15.82	16.90	1.282	-	-	0.03	0.883	1.132
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	16.07	16.90	1.211	-	-	0.09	0.712	0.862
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	15.90	16.90	1.259	-	-	0.04	0.739	0.930
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	15.82	16.90	1.282	-	-	-0.02	0.622	0.798
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	16.07	16.90	1.211	-	-	0.04	0.783	0.948
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	15.90	16.90	1.259	-	-	0.02	0.819	1.031
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	15.82	16.90	1.282	-	-	0.02	0.759	0.973
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2 Simultaneous	507000	2535	14.87	15.90	1.268	-	-	0.01	0.771	0.977
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	507000	2535	22.32	24.00	1.472	-	-	0.03	0.219	0.322



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	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	19.36	20.50	1.300	42.9	1.009	0.06	0.907	1.190
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	19.40	20.50	1.288	42.9	1.009	-0.03	0.896	1.165
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	19.48	20.50	1.265	42.9	1.009	0.01	0.877	1.119
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	19.46	20.50	1.271	42.9	1.009	0.03	0.888	1.138
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	19.45	20.50	1.274	42.9	1.009	0.02	0.939	1.207
16	LTE Band 41 HPUE	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	19.36	20.50	1.300	42.9	1.009	0.06	0.954	1.252
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	19.36	20.50	1.300	42.9	1.009	0.09	0.932	1.223
	LTE Band 41 HPUE	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	19.41	20.50	1.285	42.9	1.009	0.02	0.916	1.188
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2 Simultaneous	41055	2636.5	18.40	19.50	1.288	42.9	1.009	0.03	0.760	0.988
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	22.94	24.00	1.276	62.9	1.006	0.01	0.237	0.304
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	21.94	23.00	1.276	62.9	1.006	0.05	0.250	0.321
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	40620	2593	22.94	24.00	1.276	62.9	1.006	0.06	0.051	0.065
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	40620	2593	21.94	23.00	1.276	62.9	1.006	0.01	0.054	0.069
	LTE Band 41C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 2	DSI 2	40620+40818	2593+2612.8	22.87	24.00	1.297	62.9	1.006	0.01	0.218	0.284
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	40620	2593	22.94	24.00	1.276	62.9	1.006	-0.05	0.070	0.090
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	40620	2593	21.94	23.00	1.276	62.9	1.006	0.03	0.066	0.085
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	40620	2593	22.94	24.00	1.276	62.9	1.006	0.04	0.027	0.035
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	40620	2593	21.94	23.00	1.276	62.9	1.006	0.02	0.033	0.042
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	24.94	25.50	1.138	42.9	1.009	0.03	0.355	0.407
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	22.36	23.00	1.159	62.9	1.006	0.01	0.003	0.003
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	21.25	22.00	1.189	62.9	1.006	-0.05	0.009	0.011
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	22.36	23.00	1.159	62.9	1.006	0.03	0.025	0.029
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	21.25	22.00	1.189	62.9	1.006	0.04	0.028	0.033
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	22.36	23.00	1.159	62.9	1.006	0.08	0.078	0.091
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	21.25	22.00	1.189	62.9	1.006	0.02	0.033	0.039
	LTE Band 41C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 0	DSI 2	40620+40818	2593+2612.8	22.23	23.00	1.194	62.9	1.006	0.08	0.035	0.042
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	22.36	23.00	1.159	62.9	1.006	0.02	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	21.25	22.00	1.189	62.9	1.006	0.01	0.006	0.007
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	24.39	24.50	1.026	42.9	1.009	0.01	0.085	0.088
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	40620	2593	19.25	19.50	1.059	62.9	1.006	0.06	0.639	0.681
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	39750	2506	18.92	19.50	1.143	62.9	1.006	0.09	0.623	0.716
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	40185	2549.5	19.13	19.50	1.089	62.9	1.006	0.02	0.611	0.669
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	41055	2636.5	19.05	19.50	1.109	62.9	1.006	0.01	0.608	0.678
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	41490	2680	19.21	19.50	1.069	62.9	1.006	0.06	0.615	0.661
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	40620	2593	18.15	19.00	1.216	62.9	1.006	0.01	0.446	0.546
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 2	40620	2593	18.09	19.00	1.233	62.9	1.006	0.09	0.450	0.558
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	40620	2593	19.25	19.50	1.059	62.9	1.006	-0.03	0.650	0.693
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	39750	2506	18.92	19.50	1.143	62.9	1.006	0.06	0.623	0.716
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	40185	2549.5	19.13	19.50	1.089	62.9	1.006	0.03	0.644	0.705
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	41055	2636.5	19.05	19.50	1.109	62.9	1.006	0.01	0.629	0.702
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	41490	2680	19.21	19.50	1.069	62.9	1.006	0.05	0.620	0.667
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	40620	2593	18.15	19.00	1.216	62.9	1.006	0.02	0.448	0.548
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 2	40620	2593	18.09	19.00	1.233	62.9	1.006	0.09	0.440	0.546
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	40620	2593	19.25	19.50	1.059	62.9	1.006	0.05	0.991	1.056
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	39750	2506	18.92	19.50	1.143	62.9	1.006	0.06	0.967	1.112
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	40185	2549.5	19.13	19.50	1.089	62.9	1.006	0.01	0.950	1.041
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	41055	2636.5	19.05	19.50	1.109	62.9	1.006	0.03	0.987	1.101
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	41490	2680	19.21	19.50	1.069	62.9	1.006	0.09	0.942	1.013
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	40620	2593	18.15	19.00	1.216	62.9	1.006	0.04	0.679	0.831
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	39750	2506	17.97	19.00	1.268	62.9	1.006	0.09	0.680	0.867
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	40185	2549.5	18.10	19.00	1.230	62.9	1.006	0.01	0.666	0.824
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	41055	2636.5	18.02	19.00	1.253	62.9	1.006	0.03	0.695	0.876
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	41490	2680	18.10	19.00	1.230	62.9	1.006	0.05	0.674	0.834
	LTE Band 41	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 4	DSI 2	40620	2593	18.09	19.00	1.233	62.9	1.006	0.06	0.659	0.817
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	40620	2593	19.25	19.50	1.059	62.9	1.006	0.01	1.070	1.140



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	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	39750	2506	18.92	19.50	1.143	62.9	1.006	0.05	0.980	1.127
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	40185	2549.5	19.13	19.50	1.089	62.9	1.006	0.02	1.030	1.128
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	41055	2636.5	19.05	19.50	1.109	62.9	1.006	0.09	1.010	1.127
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	41490	2680	19.21	19.50	1.069	62.9	1.006	0.05	0.986	1.060
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	40620	2593	18.15	19.00	1.216	62.9	1.006	0.06	0.815	0.997
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	39750	2506	17.97	19.00	1.268	62.9	1.006	0.01	0.806	1.028
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	40185	2549.5	18.10	19.00	1.230	62.9	1.006	0.03	0.798	0.988
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	41055	2636.5	18.02	19.00	1.253	62.9	1.006	0.01	0.786	0.991
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	41490	2680	18.10	19.00	1.230	62.9	1.006	0.09	0.777	0.962
	LTE Band 41	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 4	DSI 2	40620	2593	18.09	19.00	1.233	62.9	1.006	0.02	0.795	0.986
	LTE Band 41C	20M	QPSK	1	99	-	Left Tilted	0mm	Ant 4	DSI 2	40620+ 40818	2593+ 2612.8	19.11	19.50	1.094	62.9	1.006	0.01	0.978	1.076
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2 Simultaneous	40620	2593	18.24	18.90	1.164	62.9	1.006	0.06	0.789	0.924
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	40620	2593	20.95	21.10	1.035	42.9	1.009	0.09	1.080	1.128
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2 Simultaneous	40620	2593	19.11	20.50	1.377	42.9	1.009	0.01	0.718	0.998
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	15.98	16.70	1.180	-	-	0.03	0.840	0.991
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	15.96	16.70	1.186	-	-	0.09	0.816	0.968
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	15.94	16.70	1.191	-	-	0.02	0.809	0.964
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	15.98	16.70	1.180	-	-	-0.01	1.050	1.239
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	15.96	16.70	1.186	-	-	0.07	0.956	1.134
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	15.94	16.70	1.191	-	-	0.03	0.990	1.179
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	518598	2592.99	15.98	16.70	1.180	-	-	0.01	0.682	0.805
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	518598	2592.99	15.96	16.70	1.186	-	-	0.06	0.666	0.790
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	518598	2592.99	15.94	16.70	1.191	-	-	-0.03	0.670	0.798
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	518598	2592.99	15.98	16.70	1.180	-	-	0.01	0.817	0.964
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	518598	2592.99	15.96	16.70	1.186	-	-	0.06	0.811	0.962
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	518598	2592.99	15.94	16.70	1.191	-	-	-0.03	0.798	0.951
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2 Simultaneous	518598	2592.99	14.96	15.70	1.186	-	-	0.02	0.815	0.966
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	518598	2592.99	23.03	24.00	1.250	-	-	0.03	0.237	0.296
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	518598	2592.99	22.97	24.00	1.268	-	-	0.06	0.335	0.425
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	518598	2592.99	23.03	24.00	1.250	-	-	0.01	0.132	0.165
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	518598	2592.99	22.97	24.00	1.268	-	-	-0.05	0.146	0.185
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	518598	2592.99	23.03	24.00	1.250	-	-	0.03	0.145	0.181
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	518598	2592.99	22.97	24.00	1.268	-	-	0.04	0.169	0.214
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	518598	2592.99	23.03	24.00	1.250	-	-	-0.02	0.075	0.094
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	518598	2592.99	22.97	24.00	1.268	-	-	0.09	0.106	0.134
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	518598	2592.99	23.18	24.00	1.208	-	-	0.06	0.068	0.082
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	518598	2592.99	23.13	24.00	1.222	-	-	0.01	0.059	0.072
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	518598	2592.99	23.18	24.00	1.208	-	-	-0.05	0.074	0.089
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	518598	2592.99	23.13	24.00	1.222	-	-	0.03	0.067	0.082
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	518598	2592.99	23.18	24.00	1.208	-	-	-0.09	0.129	0.156
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	518598	2592.99	23.13	24.00	1.222	-	-	0.01	0.091	0.111
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	518598	2592.99	23.18	24.00	1.208	-	-	0.03	0.050	0.060
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	518598	2592.99	23.13	24.00	1.222	-	-	0.01	0.028	0.034
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	518598	2592.99	17.44	18.50	1.276	-	-	0.01	0.553	0.706
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	518598	2592.99	17.13	18.50	1.371	-	-	-0.05	0.490	0.672
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	518598	2592.99	17.44	18.50	1.276	-	-	0.01	0.613	0.782
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	518598	2592.99	17.13	18.50	1.371	-	-	-0.05	0.566	0.776
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	518598	2592.99	17.44	18.50	1.276	-	-	0.04	0.803	1.025
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	518598	2592.99	17.13	18.50	1.371	-	-	0.02	0.785	1.076
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	518598	2592.99	17.04	18.50	1.400	-	-	0.02	0.772	1.080
17	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	518598	2592.99	17.44	18.50	1.276	-	-	0.01	0.980	1.251
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	518598	2592.99	17.13	18.50	1.371	-	-	0.01	0.890	1.220
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	518598	2592.99	17.04	18.50	1.400	-	-	0.02	0.847	1.185
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2 Simultaneous	518598	2592.99	16.49	17.50	1.262	-	-	0.01	0.791	0.998

3500MHz



FCC SAR Test Report

Report No. : FA282619

FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	22.40	23.40	1.259	-	-	0.06	0.885	1.114
FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	22.28	23.40	1.294	-	-	0.01	0.953	1.233
FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2 Simultaneous	656000	3840	21.27	22.40	1.297	-	-	0.02	0.759	0.985
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	23.33	24.00	1.167	-	-	0.03	0.178	0.208
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	23.25	24.00	1.189	-	-	0.09	0.132	0.157
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	23.33	24.00	1.167	-	-	0.04	0.211	0.246
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	23.25	24.00	1.189	-	-	0.05	0.189	0.225
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	23.33	24.00	1.167	-	-	0.09	0.050	0.058
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	23.25	24.00	1.189	-	-	0.01	0.044	0.052
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	656000	3840	23.33	24.00	1.167	-	-	0.03	0.075	0.088
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	656000	3840	23.25	24.00	1.189	-	-	0.04	0.079	0.094
FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	25.25	26.50	1.334	50	1.000	-0.03	0.175	0.233
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	656000	3840	22.48	24.00	1.419	-	-	0.06	0.145	0.206
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	656000	3840	22.41	24.00	1.442	-	-	0.02	0.151	0.218
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	656000	3840	22.48	24.00	1.419	-	-	0.04	0.045	0.064
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	656000	3840	22.41	24.00	1.442	-	-	0.06	0.043	0.062
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	22.48	24.00	1.419	-	-	0.08	0.090	0.128
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	22.41	24.00	1.442	-	-	0.01	0.076	0.110
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	656000	3840	22.48	24.00	1.419	-	-	0.06	0.109	0.155
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	656000	3840	22.41	24.00	1.442	-	-	0.03	0.116	0.167
FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	656000	3840	25.45	27.00	1.429	50	1.000	0.05	0.165	0.236



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WIFI/BT																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Standalone	1	2412	20.85	22.50	1.462	97.86	1.022	0.06	0.546	0.816
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Standalone	11	2462	20.73	22.50	1.503	97.86	1.022	0.01	0.567	0.871
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+6	Standalone	1	2412	20.85	22.50	1.462	97.86	1.022	-0.09	0.609	0.910
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+6	Standalone	11	2462	20.73	22.50	1.503	97.86	1.022	0.06	0.667	1.025
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+6	Standalone	1	2412	20.85	22.50	1.462	97.86	1.022	0.08	0.598	0.894
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+6	Standalone	11	2462	20.73	22.50	1.503	97.86	1.022	0.06	0.719	1.105
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	Standalone	1	2412	20.85	22.50	1.462	97.86	1.022	0.08	0.806	1.204
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	Standalone	6	2437	20.32	22.00	1.472	97.86	1.022	0.01	0.877	1.320
21	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	Standalone	11	2462	20.73	22.50	1.503	97.86	1.022	0.04	0.929	1.427
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+6	Standalone	6	2437	20.80	22.50	1.479	99.45	1.006	0.05	0.802	1.193
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	DBS Only	11	2462	18.79	20.50	1.483	97.86	1.022	0.06	0.512	0.776
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	WWAN+non DBS	11	2462	15.78	17.50	1.486	97.86	1.022	0.01	0.230	0.349
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	WWAN+DBS	11	2462	12.81	14.50	1.476	97.86	1.022	-0.03	0.103	0.155
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	0.04	0.061	0.093
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	0.06	0.051	0.077
22	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	-0.09	0.112	0.170
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	0.01	0.086	0.131
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 6	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	0.09	0.032	0.049
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 6	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	0.01	0.021	0.032
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	0.03	0.064	0.097
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 6	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	0.04	0.050	0.076
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+7	Standalone	58	5290	19.32	20.00	1.169	100	1.000	0.06	0.335	0.392
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+7	Standalone	58	5290	19.32	20.00	1.169	100	1.000	0.01	0.410	0.479
23	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	Standalone	58	5290	19.32	20.00	1.169	100	1.000	-0.03	0.984	1.151
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+7	Standalone	58	5290	19.32	20.00	1.169	100	1.000	0.02	0.865	1.012
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	DBS Only	58	5290	17.31	18.00	1.172	100	1.000	0.06	0.613	0.719
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	WWAN+non DBS	58	5290	14.35	15.00	1.161	100	1.000	0.01	0.298	0.346
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	WWAN+DBS	58	5290	11.34	12.00	1.164	100	1.000	-0.02	0.129	0.150
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+7	Standalone	122	5610	20.15	21.00	1.216	100	1.000	0.02	0.181	0.220
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+7	Standalone	122	5610	20.15	21.00	1.216	100	1.000	0.01	0.232	0.282
24	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	Standalone	122	5610	20.15	21.00	1.216	100	1.000	-0.11	0.939	1.142
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	Standalone	138	5690	19.99	21.00	1.262	100	1.000	-0.03	0.806	1.017
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+7	Standalone	122	5610	20.15	21.00	1.216	100	1.000	0.05	0.591	0.719
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	DBS Only	122	5610	18.16	19.00	1.213	100	1.000	0.03	0.593	0.720
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	WWAN+non DBS	122	5610	15.12	16.00	1.225	100	1.000	-0.02	0.290	0.355
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	WWAN+DBS	122	5610	12.14	13.00	1.219	100	1.000	0.04	0.135	0.165
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+7	Standalone	155	5775	20.01	21.00	1.256	100	1.000	0.06	0.212	0.266
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+7	Standalone	155	5775	20.01	21.00	1.256	100	1.000	0.01	0.263	0.330
25	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	Standalone	155	5775	20.01	21.00	1.256	100	1.000	0.08	0.891	1.119
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+7	Standalone	155	5775	20.01	21.00	1.256	100	1.000	-0.07	0.726	0.912
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	DBS Only	155	5775	18.03	19.00	1.250	100	1.000	0.06	0.587	0.734
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	WWAN+non DBS	155	5775	14.99	16.00	1.262	100	1.000	0.02	0.289	0.365
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	WWAN+DBS	155	5775	11.98	13.00	1.265	100	1.000	0.09	0.135	0.171



16.2 Hotspot SAR

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB Offset, Mode, Test Position, Gap (mm), Antenna, Power State, Ch., Freq. (MHz), Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Power Drift (dB), Measured 1g SAR (W/kg), Reported 1g SAR (W/kg). Includes sections for 750MHz and 835MHz.



	GSM850	-	-	-	-	GPRS (3 Tx slots)	Right Side	5mm	Ant 1	DSI 3	189	836.4	27.94	28.50	1.138	0.06	0.084	0.096
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	5mm	Ant 1	DSI 3	189	836.4	27.94	28.50	1.138	0.01	0.796	0.906
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	5mm	Ant 1	DSI 3	128	824.2	27.81	28.50	1.172	0.09	0.775	0.908
28	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	5mm	Ant 1	DSI 3	251	848.8	27.91	28.50	1.146	0.03	0.803	0.920
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3	4182	836.4	24.22	25.00	1.197	0.02	0.382	0.457
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4182	836.4	24.22	25.00	1.197	-0.02	0.639	0.765
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3	4182	836.4	24.22	25.00	1.197	0.01	0.425	0.509
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3	4182	836.4	24.22	25.00	1.197	0.03	0.161	0.193
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3	4182	836.4	24.22	25.00	1.197	0.05	0.493	0.590
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3	4182	836.4	24.03	25.00	1.250	0.06	0.460	0.575
29	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4182	836.4	24.03	25.00	1.250	0.02	0.780	0.975
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4132	826.4	23.83	25.00	1.309	0.03	0.741	0.970
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4233	846.6	23.90	25.00	1.288	0.01	0.719	0.926
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3	4182	836.4	24.03	25.00	1.250	0.03	0.534	0.668
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI 3	4182	836.4	24.03	25.00	1.250	0.04	0.133	0.166
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	4182	836.4	24.03	25.00	1.250	0.01	0.675	0.844
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	4132	826.4	23.83	25.00	1.309	0.06	0.666	0.872
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	4233	846.6	23.90	25.00	1.288	0.1	0.654	0.843
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3	26865	831.5	22.77	24.00	1.327	0.02	0.319	0.423
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	DSI 3	26865	831.5	21.63	23.00	1.371	0.01	0.265	0.363
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	26865	831.5	22.77	24.00	1.327	0.06	0.605	0.803
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	DSI 3	26865	831.5	21.63	23.00	1.371	0.01	0.489	0.670
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	DSI 3	26865	831.5	21.67	23.00	1.358	0.03	0.501	0.681
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3	26865	831.5	22.77	24.00	1.327	0.03	0.298	0.396
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	DSI 3	26865	831.5	21.63	23.00	1.371	0.04	0.262	0.359
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3	26865	831.5	22.77	24.00	1.327	0.01	0.120	0.159
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 0	DSI 3	26865	831.5	21.63	23.00	1.371	0.09	0.106	0.145
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3	26865	831.5	22.77	24.00	1.327	0.01	0.368	0.488
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 0	DSI 3	26865	831.5	21.63	23.00	1.371	0.03	0.323	0.443
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	26865	831.5	22.51	24.00	1.409	-0.01	0.397	0.559
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	DSI 3	26865	831.5	21.55	23.00	1.396	0.04	0.381	0.532
30	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	26865	831.5	22.51	24.00	1.409	0.01	0.702	0.989
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	DSI 3	26865	831.5	21.55	23.00	1.396	0.02	0.507	0.708
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 1	DSI 3	26865	831.5	21.45	23.00	1.429	0.06	0.501	0.716
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3	26865	831.5	22.51	24.00	1.409	0.09	0.388	0.547
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 1	DSI 3	26865	831.5	21.55	23.00	1.396	0.03	0.374	0.522
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3	26865	831.5	22.51	24.00	1.409	0.08	0.132	0.186
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 1	DSI 3	26865	831.5	21.55	23.00	1.396	0.03	0.129	0.180
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	26865	831.5	22.51	24.00	1.409	0.01	0.684	0.964
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant 1	DSI 3	26865	831.5	21.55	23.00	1.396	0.09	0.471	0.658
	LTE Band 26	15M	QPSK	75	0	-	Top Side	5mm	Ant 1	DSI 3	26865	831.5	21.45	23.00	1.429	0.03	0.466	0.666
1750MHz																		
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3	167300	836.5	23.19	24.00	1.205	0.06	0.248	0.299
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3	167300	836.5	23.14	24.00	1.219	-0.01	0.224	0.273
31	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	167300	836.5	23.19	24.00	1.205	0.02	0.416	0.501
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3	167300	836.5	23.14	24.00	1.219	0.05	0.385	0.469
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3	167300	836.5	23.19	24.00	1.205	0.03	0.227	0.274
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3	167300	836.5	23.14	24.00	1.219	0.04	0.200	0.244
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3	167300	836.5	23.19	24.00	1.205	0.01	0.082	0.099
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3	167300	836.5	23.14	24.00	1.219	0.06	0.068	0.083
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3	167300	836.5	23.19	24.00	1.205	0.01	0.341	0.411
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3	167300	836.5	23.14	24.00	1.219	0.09	0.288	0.351
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3	1413	1732.6	15.62	16.50	1.225	0.06	0.410	0.502
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	1413	1732.6	15.62	16.50	1.225	0.02	0.696	0.852
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	1312	1712.4	15.37	16.50	1.297	-0.03	0.685	0.889
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	1513	1752.6	15.52	16.50	1.253	0.02	0.716	0.897



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	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3	1413	1732.6	15.62	16.50	1.225	0.01	0.500	0.612
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI 3	1413	1732.6	15.62	16.50	1.225	0.04	0.025	0.031
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	1413	1732.6	15.62	16.50	1.225	0.03	0.435	0.533
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 3	1413	1732.6	19.64	20.50	1.219	0.08	0.462	0.563
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	1413	1732.6	19.64	20.50	1.219	0.01	0.612	0.746
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 2	DSI 3	1413	1732.6	19.64	20.50	1.219	0.01	0.080	0.098
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 2	DSI 3	1413	1732.6	19.64	20.50	1.219	0.09	0.207	0.252
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 3	1413	1732.6	19.64	20.50	1.219	0.08	0.921	1.123
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 3	1312	1712.4	19.39	20.50	1.291	0.07	0.873	1.127
32	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 3	1513	1752.6	19.31	20.50	1.315	0.02	0.957	1.259
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	132322	1745	16.62	17.80	1.312	-0.03	0.437	0.573
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3	132322	1745	16.58	17.80	1.324	-0.03	0.367	0.486
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	132322	1745	16.62	17.80	1.312	0.01	0.716	0.940
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	132072	1720	16.50	17.80	1.349	0.06	0.692	0.933
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	132572	1770	16.46	17.80	1.361	0.04	0.684	0.931
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	132322	1745	16.58	17.80	1.324	0.03	0.688	0.911
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	132072	1720	16.50	17.80	1.349	0.08	0.675	0.911
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	132572	1770	16.47	17.80	1.358	0.03	0.666	0.905
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	DSI 3	132322	1745	16.55	17.80	1.334	0.04	0.672	0.896
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3	132322	1745	16.62	17.80	1.312	0.01	0.593	0.778
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3	132322	1745	16.58	17.80	1.324	0.03	0.494	0.654
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3	132322	1745	16.62	17.80	1.312	0.04	0.019	0.025
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3	132322	1745	16.58	17.80	1.324	0.06	0.016	0.021
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	132322	1745	16.62	17.80	1.312	0.04	0.470	0.617
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	132322	1745	16.58	17.80	1.324	0.04	0.387	0.513
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3	132322	1745	19.35	20.40	1.274	-0.09	0.492	0.627
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3	132322	1745	18.91	20.40	1.409	-0.06	0.322	0.454
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	132322	1745	19.35	20.40	1.274	-0.03	0.621	0.791
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	132322	1745	18.91	20.40	1.409	0.02	0.452	0.637
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	132322	1745	19.35	20.40	1.274	0.06	0.104	0.132
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	132322	1745	18.91	20.40	1.409	0.01	0.088	0.124
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI 3	132322	1745	19.35	20.40	1.274	-0.03	0.233	0.297
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI 3	132322	1745	18.91	20.40	1.409	0.02	0.195	0.275
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI 3	132322	1745	19.35	20.40	1.274	0.09	0.951	1.211
33	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI 3	132072	1720	19.28	20.40	1.294	-0.05	0.968	1.253
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI 3	132572	1770	19.19	20.40	1.321	0.01	0.934	1.234
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI 3	132322	1745	18.91	20.40	1.409	0.02	0.787	1.109
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI 3	132072	1720	18.87	20.40	1.422	0.06	0.837	1.190
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI 3	132572	1770	18.88	20.40	1.419	-0.03	0.727	1.032
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 2	DSI 3	132322	1745	18.76	20.40	1.459	0.08	0.801	1.169
1900MHz																		
	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Front	5mm	Ant 1	DSI 3	661	1880	20.67	21.70	1.268	0.02	0.449	0.569
	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Back	5mm	Ant 1	DSI 3	661	1880	20.67	21.70	1.268	0.01	0.738	0.936
	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Back	5mm	Ant 1	DSI 3	512	1850.2	20.40	21.70	1.349	0.09	0.653	0.881



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	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Back	5mm	Ant 1	DSI 3	810	1909.8	20.59	21.70	1.291	0.05	0.699	0.903
	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Left Side	5mm	Ant 1	DSI 3	661	1880	20.67	21.70	1.268	0.02	0.758	0.961
	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Left Side	5mm	Ant 1	DSI 3	512	1850.2	20.40	21.70	1.349	0.06	0.706	0.952
	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Left Side	5mm	Ant 1	DSI 3	810	1909.8	20.59	21.70	1.291	0.09	0.723	0.934
	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Right Side	5mm	Ant 1	DSI 3	661	1880	20.67	21.70	1.268	0.06	0.047	0.060
	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Top Side	5mm	Ant 1	DSI 3	661	1880	20.67	21.70	1.268	-0.03	0.684	0.867
	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Top Side	5mm	Ant 1	DSI 3	512	1850.2	20.40	21.70	1.349	0.08	0.637	0.859
	GSM1900	-	-	-	-	GPRS (3 Tx slot)	Top Side	5mm	Ant 1	DSI 3	810	1909.8	20.59	21.70	1.291	0.05	0.688	0.888
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 2	DSI 3	661	1880	21.75	22.50	1.189	0.09	0.417	0.496
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 2	DSI 3	661	1880	21.75	22.50	1.189	0.02	0.598	0.711
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Left Side	5mm	Ant 2	DSI 3	661	1880	21.75	22.50	1.189	0.05	0.079	0.094
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Right Side	5mm	Ant 2	DSI 3	661	1880	21.75	22.50	1.189	0.07	0.233	0.277
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 2	DSI 3	661	1880	21.75	22.50	1.189	0.06	1.010	1.200
35	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 2	DSI 3	512	1850.2	21.72	22.50	1.197	0.07	1.050	1.257
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 2	DSI 3	810	1909.8	21.73	22.50	1.194	0.04	0.852	1.017
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3	9400	1880	16.26	17.30	1.271	0.01	0.436	0.554
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	9400	1880	16.26	17.30	1.271	-0.04	0.739	0.939
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	9262	1852.4	16.16	17.30	1.300	0.09	0.750	0.975
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	9538	1907.6	16.13	17.30	1.309	0.03	0.762	0.998
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3	9400	1880	16.26	17.30	1.271	0.05	0.642	0.816
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3	9262	1852.4	16.16	17.30	1.300	0.01	0.623	0.810
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3	9538	1907.6	16.13	17.30	1.309	0.02	0.631	0.826
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI 3	9400	1880	16.26	17.30	1.271	0.06	0.040	0.051
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	9400	1880	16.26	17.30	1.271	0.09	0.684	0.869
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	9262	1852.4	16.16	17.30	1.300	0.06	0.647	0.841
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	9538	1907.6	16.13	17.30	1.309	0.02	0.623	0.816
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 3	9400	1880	19.71	20.90	1.315	-0.06	0.456	0.600
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	9400	1880	19.71	20.90	1.315	0.09	0.632	0.831
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	9262	1852.4	19.63	20.90	1.340	0.03	0.652	0.873
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	9538	1907.6	19.64	20.90	1.337	-0.06	0.608	0.813
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 2	DSI 3	9400	1880	19.71	20.90	1.315	0.09	0.090	0.118
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 2	DSI 3	9400	1880	19.71	20.90	1.315	0.06	0.276	0.363
36	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 3	9400	1880	19.71	20.90	1.315	-0.01	0.949	1.248
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 3	9262	1852.4	19.63	20.90	1.340	0.06	0.891	1.194
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 3	9538	1907.6	19.64	20.90	1.337	0.09	0.916	1.224
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	26340	1880	16.36	17.40	1.271	0.02	0.388	0.493
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3	26340	1880	16.26	17.40	1.300	0.06	0.368	0.478
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	26340	1880	16.36	17.40	1.271	0.08	0.688	0.874
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	26140	1860	16.22	17.40	1.312	0.01	0.695	0.912
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	26590	1905	16.13	17.40	1.340	0.01	0.694	0.930
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	26340	1880	16.26	17.40	1.300	0.06	0.668	0.869
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	26140	1860	16.24	17.40	1.306	0.08	0.671	0.876
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	26590	1905	16.10	17.40	1.349	0.02	0.648	0.874
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 1	DSI 3	26340	1880	16.27	17.40	1.297	0.06	0.687	0.891
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3	26340	1880	16.36	17.40	1.271	0.09	0.587	0.746
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3	26340	1880	16.26	17.40	1.300	0.07	0.558	0.725
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3	26340	1880	16.36	17.40	1.271	0.06	0.036	0.046
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3	26340	1880	16.26	17.40	1.300	0.09	0.034	0.044
	LTE Band 25	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	26340	1880	16.36	17.40	1.271	0.06	0.580	0.737
	LTE Band 25	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	26340	1880	16.26	17.40	1.300	0.06	0.554	0.720
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3	26340	1880	18.94	20.10	1.306	0.06	0.483	0.631
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3	26340	1880	18.86	20.10	1.330	0.04	0.414	0.551
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	26340	1880	18.94	20.10	1.306	0.01	0.641	0.837
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	26140	1860	18.89	20.10	1.321	-0.02	0.658	0.869
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	26590	1905	18.78	20.10	1.355	0.04	0.625	0.847
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	26340	1880	18.86	20.10	1.330	0.09	0.636	0.846



	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	26140	1860	18.76	20.10	1.361	0.06	0.618	0.841
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	26590	1905	18.69	20.10	1.384	0.04	0.623	0.862
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 2	DSI 3	26340	1880	18.83	20.10	1.340	0.09	0.627	0.840
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	26340	1880	18.94	20.10	1.306	0.03	0.107	0.140
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	26340	1880	18.86	20.10	1.330	0.02	0.087	0.116
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI 3	26340	1880	18.94	20.10	1.306	0.01	0.281	0.367
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI 3	26340	1880	18.86	20.10	1.330	-0.02	0.238	0.317
37	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI 3	26340	1880	18.94	20.10	1.306	0.08	0.950	1.241
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI 3	26140	1860	18.89	20.10	1.321	0.06	0.844	1.115
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI 3	26590	1905	18.78	20.10	1.355	0.06	0.896	1.214
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI 3	26340	1880	18.86	20.10	1.330	0.07	0.812	1.080
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI 3	26140	1860	18.76	20.10	1.361	0.04	0.873	1.189
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI 3	26590	1905	18.69	20.10	1.384	0.06	0.792	1.096
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 2	DSI 3	26340	1880	18.83	20.10	1.340	0.09	0.800	1.072
	FR1 n2	20M	QPSK	1	1	-	Front	5mm	Ant 1	DSI 3	376000	1880	16.66	17.50	1.213	0.06	0.458	0.556
	FR1 n2	20M	QPSK	50	28	-	Front	5mm	Ant 1	DSI 3	376000	1880	16.58	17.50	1.236	0.08	0.486	0.601
	FR1 n2	20M	QPSK	1	1	-	Back	5mm	Ant 1	DSI 3	376000	1880	16.66	17.50	1.213	0.05	0.764	0.927
	FR1 n2	20M	QPSK	1	1	-	Back	5mm	Ant 1	DSI 3	372000	1860	16.56	17.50	1.242	0.07	0.738	0.916
	FR1 n2	20M	QPSK	1	1	-	Back	5mm	Ant 1	DSI 3	380000	1900	16.60	17.50	1.230	0.06	0.745	0.917
	FR1 n2	20M	QPSK	50	28	-	Back	5mm	Ant 1	DSI 3	376000	1880	16.58	17.50	1.236	0.05	0.729	0.901
	FR1 n2	20M	QPSK	50	28	-	Back	5mm	Ant 1	DSI 3	372000	1860	16.41	17.50	1.285	0.03	0.730	0.938
	FR1 n2	20M	QPSK	50	28	-	Back	5mm	Ant 1	DSI 3	380000	1900	16.32	17.50	1.312	-0.02	0.756	0.992
38	FR1 n2	20M	QPSK	100	0	-	Back	5mm	Ant 1	DSI 3	376000	1880	16.46	17.50	1.271	-0.03	0.785	0.997
	FR1 n2	20M	QPSK	1	1	-	Left Side	5mm	Ant 1	DSI 3	376000	1880	16.66	17.50	1.213	0.06	0.696	0.845
	FR1 n2	20M	QPSK	1	1	-	Left Side	5mm	Ant 1	DSI 3	372000	1860	16.56	17.50	1.242	0.09	0.649	0.806
	FR1 n2	20M	QPSK	1	1	-	Left Side	5mm	Ant 1	DSI 3	380000	1900	16.60	17.50	1.230	0.03	0.655	0.806
	FR1 n2	20M	QPSK	50	28	-	Left Side	5mm	Ant 1	DSI 3	376000	1880	16.58	17.50	1.236	-0.06	0.681	0.842
	FR1 n2	20M	QPSK	50	28	-	Left Side	5mm	Ant 1	DSI 3	372000	1860	16.41	17.50	1.285	0.09	0.640	0.823
	FR1 n2	20M	QPSK	50	28	-	Left Side	5mm	Ant 1	DSI 3	380000	1900	16.32	17.50	1.312	0.06	0.645	0.846
	FR1 n2	20M	QPSK	100	0	-	Left Side	5mm	Ant 1	DSI 3	376000	1880	16.46	17.50	1.271	0.08	0.664	0.844
	FR1 n2	20M	QPSK	1	1	-	Right Side	5mm	Ant 1	DSI 3	376000	1880	16.66	17.50	1.213	0.02	0.037	0.045
	FR1 n2	20M	QPSK	50	28	-	Right Side	5mm	Ant 1	DSI 3	376000	1880	16.58	17.50	1.236	0.06	0.046	0.057
	FR1 n2	20M	QPSK	1	1	-	Top Side	5mm	Ant 1	DSI 3	376000	1880	16.66	17.50	1.213	0.04	0.679	0.824
	FR1 n2	20M	QPSK	1	1	-	Top Side	5mm	Ant 1	DSI 3	372000	1860	16.56	17.50	1.242	0.05	0.637	0.791
	FR1 n2	20M	QPSK	1	1	-	Top Side	5mm	Ant 1	DSI 3	380000	1900	16.60	17.50	1.230	0.07	0.642	0.790
	FR1 n2	20M	QPSK	50	28	-	Top Side	5mm	Ant 1	DSI 3	376000	1880	16.58	17.50	1.236	0.06	0.689	0.852
	FR1 n2	20M	QPSK	50	28	-	Top Side	5mm	Ant 1	DSI 3	372000	1860	16.41	17.50	1.285	0.05	0.711	0.914
	FR1 n2	20M	QPSK	50	28	-	Top Side	5mm	Ant 1	DSI 3	380000	1900	16.32	17.50	1.312	0.03	0.701	0.920
	FR1 n2	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3	376000	1880	16.46	17.50	1.271	-0.02	0.677	0.860



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	21100	2535	15.45	16.60	1.303	-	-	0.09	0.266	0.347
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3	21100	2535	15.42	16.60	1.312	-	-	0.01	0.251	0.329
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	21100	2535	15.45	16.60	1.303	-	-	0.01	0.383	0.499
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	21100	2535	15.42	16.60	1.312	-	-	0.09	0.355	0.466
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3	21100	2535	15.45	16.60	1.303	-	-	0.01	0.100	0.130
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3	21100	2535	15.42	16.60	1.312	-	-	-0.02	0.096	0.126
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3	21100	2535	15.45	16.60	1.303	-	-	0.08	0.036	0.047
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3	21100	2535	15.42	16.60	1.312	-	-	0.06	0.032	0.042
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	21100	2535	15.45	16.60	1.303	-	-	0.02	0.754	0.983
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	20850	2510	15.41	16.60	1.315	-	-	0.03	0.733	0.964
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	21350	2560	15.36	16.60	1.330	-	-	0.02	0.680	0.905
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	21100	2535	15.42	16.60	1.312	-	-	0.01	0.672	0.882
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	20850	2510	15.31	16.60	1.346	-	-	0.06	0.675	0.908
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	21350	2560	15.39	16.60	1.321	-	-	0.09	0.678	0.896
	LTE Band 7	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3	21100	2535	15.30	16.60	1.349	-	-	0.03	0.643	0.867
	LTE Band 7	20M	QPSK	1	99	-	Top Side	5mm	Ant 1	DSI 3	21100+21298	2535+2554.8	15.24	16.60	1.368	-	-	0.01	0.714	0.977
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3	21100	2535	20.48	21.80	1.355	-	-	0.03	0.626	0.848
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3	20850	2510	20.35	21.80	1.396	-	-	0.06	0.608	0.849
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3	21350	2560	20.40	21.80	1.380	-	-	0.09	0.611	0.843
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3	21100	2535	20.43	21.80	1.371	-	-	0.02	0.589	0.807
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3	20850	2510	20.33	21.80	1.403	-	-	0.01	0.571	0.801
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3	21350	2560	20.38	21.80	1.387	-	-	0.07	0.588	0.815
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 2	DSI 3	21100	2535	20.32	21.80	1.406	-	-	0.05	0.575	0.808
39	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	21100	2535	20.48	21.80	1.355	-	-	-0.01	0.919	1.245
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	20850	2510	20.35	21.80	1.396	-	-	0.03	0.888	1.240
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	21350	2560	20.40	21.80	1.380	-	-	-0.04	0.860	1.187
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	21100	2535	20.43	21.80	1.371	-	-	0.03	0.830	1.138
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	20850	2510	20.33	21.80	1.403	-	-	0.09	0.812	1.139
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	21350	2560	20.38	21.80	1.387	-	-	0.05	0.793	1.100
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 2	DSI 3	21100	2535	20.32	21.80	1.406	-	-	0.06	0.812	1.142
	LTE Band 7C	20M	QPSK	1	99	-	Back	5mm	Ant 2	DSI 3	21100+21298	2535+2554.8	20.33	21.80	1.403	-	-	-0.01	0.866	1.215
	LTE Band 7C	20M	QPSK	1	99	-	Back	5mm	Ant 2	DSI 3	20850+21048	2510+2529.8	20.23	21.80	1.435	-	-	0.06	0.845	1.213
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	21350+21152	2560+2540.2	20.20	21.80	1.445	-	-	0.02	0.823	1.190
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	21100	2535	20.48	21.80	1.355	-	-	0.09	0.052	0.070
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	21100	2535	20.43	21.80	1.371	-	-	0.03	0.049	0.067
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI 3	21100	2535	20.48	21.80	1.355	-	-	0.06	0.471	0.638
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI 3	21100	2535	20.43	21.80	1.371	-	-	0.01	0.406	0.557
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI 3	21100	2535	20.48	21.80	1.355	-	-	0.09	0.352	0.477
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI 3	21100	2535	20.43	21.80	1.371	-	-	0.07	0.336	0.461
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	507000	2535	14.48	15.50	1.265	-	-	0.01	0.244	0.309
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3	507000	2535	14.41	15.50	1.285	-	-	-0.02	0.279	0.359
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	507000	2535	14.48	15.50	1.265	-	-	0.06	0.354	0.448
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3	507000	2535	14.41	15.50	1.285	-	-	0.02	0.402	0.517
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3	507000	2535	14.48	15.50	1.265	-	-	0.02	0.103	0.130
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3	507000	2535	14.41	15.50	1.285	-	-	0.01	0.095	0.122
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3	507000	2535	14.48	15.50	1.265	-	-	0.04	0.021	0.027
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3	507000	2535	14.41	15.50	1.285	-	-	0.09	0.029	0.037
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3	507000	2535	14.48	15.50	1.265	-	-	0.03	0.756	0.956
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3	507000	2535	14.41	15.50	1.285	-	-	-0.09	0.766	0.985



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	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHZ	Top Side	5mm	Ant 1	DSI 3	507000	2535	14.34	15.50	1.306	-	-	0.06	0.711	0.929
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHZ	Front	5mm	Ant 2	DSI 3	507000	2535	20.48	21.50	1.265	-	-	0.02	0.508	0.642
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHZ	Front	5mm	Ant 2	DSI 3	507000	2535	20.32	21.50	1.312	-	-	0.09	0.578	0.758
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHZ	Back	5mm	Ant 2	DSI 3	507000	2535	20.48	21.50	1.265	-	-	-0.04	0.898	1.136
40	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHZ	Back	5mm	Ant 2	DSI 3	507000	2535	20.32	21.50	1.312	-	-	0.03	0.955	1.253
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHZ	Back	5mm	Ant 2	DSI 3	507000	2535	20.32	21.50	1.312	-	-	0.07	0.915	1.201
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHZ	Left Side	5mm	Ant 2	DSI 3	507000	2535	20.48	21.50	1.265	-	-	0.09	0.059	0.075
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHZ	Left Side	5mm	Ant 2	DSI 3	507000	2535	20.32	21.50	1.312	-	-	0.02	0.060	0.079
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHZ	Right Side	5mm	Ant 2	DSI 3	507000	2535	20.48	21.50	1.265	-	-	0.01	0.371	0.469
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHZ	Right Side	5mm	Ant 2	DSI 3	507000	2535	20.32	21.50	1.312	-	-	0.07	0.412	0.541
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHZ	Bottom Side	5mm	Ant 2	DSI 3	507000	2535	20.48	21.50	1.265	-	-	0.06	0.408	0.516
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHZ	Bottom Side	5mm	Ant 2	DSI 3	507000	2535	20.32	21.50	1.312	-	-	0.06	0.444	0.583
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3	40620	2593	19.88	20.50	1.153	62.9	1.006	0.06	0.347	0.403
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3	40620	2593	19.79	20.50	1.178	62.9	1.006	-0.02	0.356	0.422
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	40620	2593	19.88	20.50	1.153	62.9	1.006	0.01	0.466	0.541
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3	40620	2593	19.79	20.50	1.178	62.9	1.006	0.01	0.474	0.562
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3	40620	2593	19.88	20.50	1.153	62.9	1.006	0.01	0.958	1.112
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3	39750	2506	19.72	20.50	1.197	62.9	1.006	0.07	0.840	1.011
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3	40185	2549.5	19.80	20.50	1.175	62.9	1.006	0.03	0.921	1.089
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3	41055	2636.5	19.65	20.50	1.216	62.9	1.006	0.09	0.964	1.179
41	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3	41490	2680	19.76	20.50	1.186	62.9	1.006	0.06	1.050	1.253
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3	40620	2593	19.79	20.50	1.178	62.9	1.006	0.02	0.969	1.148
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3	39750	2506	19.67	20.50	1.211	62.9	1.006	0.01	0.872	1.062
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3	40185	2549.5	19.75	20.50	1.189	62.9	1.006	0.04	0.937	1.120
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3	41055	2636.5	19.65	20.50	1.216	62.9	1.006	0.03	1.000	1.223
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3	41490	2680	19.76	20.50	1.186	62.9	1.006	0.01	1.030	1.229
	LTE Band 41	20M	QPSK	100	0	-	Left Side	5mm	Ant 0	DSI 3	40620	2593	19.73	20.50	1.194	62.9	1.006	0.07	0.964	1.158
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3	41490+41292	2680+2660.2	19.62	20.50	1.225	62.9	1.006	0.06	0.995	1.226
	LTE Band 41C	20M	QPSK	1	99	-	Left Side	5mm	Ant 0	DSI 3	39750+39948	2506+2525.8	19.56	20.50	1.242	62.9	1.006	0.09	0.976	1.219
	LTE Band 41C	20M	QPSK	1	99	-	Left Side	5mm	Ant 0	DSI 3	40185+40383	2549.5+2569.3	19.71	20.50	1.199	62.9	1.006	0.02	0.989	1.193
	LTE Band 41C	20M	QPSK	1	99	-	Left Side	5mm	Ant 0	DSI 3	40620+40818	2593+2612.8	19.68	20.50	1.208	62.9	1.006	0.09	0.992	1.205
	LTE Band 41C	20M	QPSK	1	99	-	Left Side	5mm	Ant 0	DSI 3	41055+41253	2636.5+2656.3	19.62	20.50	1.225	62.9	1.006	0.02	0.981	1.209
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3	40620	2593	19.88	20.50	1.153	62.9	1.006	0.04	0.030	0.035
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3	40620	2593	19.79	20.50	1.178	62.9	1.006	0.03	0.031	0.037
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3	40620	2593	19.88	20.50	1.153	62.9	1.006	-0.02	0.712	0.826
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3	39750	2506	19.72	20.50	1.197	62.9	1.006	0.01	0.704	0.848
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3	40185	2549.5	19.80	20.50	1.175	62.9	1.006	0.09	0.739	0.873
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3	41055	2636.5	19.65	20.50	1.216	62.9	1.006	0.02	0.722	0.883
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3	41490	2680	19.76	20.50	1.186	62.9	1.006	0.01	0.712	0.849
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3	40620	2593	19.79	20.50	1.178	62.9	1.006	0.07	0.721	0.854
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3	39750	2506	19.67	20.50	1.211	62.9	1.006	0.04	0.728	0.887
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3	40185	2549.5	19.75	20.50	1.189	62.9	1.006	0.01	0.711	0.850
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3	41055	2636.5	19.65	20.50	1.216	62.9	1.006	0.04	0.732	0.896
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3	41490	2680	19.76	20.50	1.186	62.9	1.006	0.03	0.765	0.913
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3	40620	2593	19.73	20.50	1.194	62.9	1.006	0.01	0.702	0.843
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3	41490	2680	21.30	21.90	1.148	42.9	1.009	0.06	1.080	1.251
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	40620	2593	16.32	17.20	1.225	62.9	1.006	-0.09	0.211	0.260
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3	40620	2593	16.24	17.20	1.247	62.9	1.006	0.04	0.219	0.275
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	40620	2593	16.32	17.20	1.225	62.9	1.006	0.09	0.292	0.360
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	40620	2593	16.24	17.20	1.247	62.9	1.006	0.01	0.301	0.378
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3	40620	2593	16.32	17.20	1.225	62.9	1.006	-0.02	0.070	0.086
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3	40620	2593	16.24	17.20	1.247	62.9	1.006	0.06	0.073	0.092
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3	40620	2593	16.32	17.20	1.225	62.9	1.006	0.04	0.034	0.042
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3	40620	2593	16.24	17.20	1.247	62.9	1.006	0.09	0.035	0.044



FCC SAR Test Report

Report No. : FA282619

Table with columns: LTE Band, Modulation, Coding Rate, Power, Frequency, Location, Antenna, DSI, Power Spectral Density, Power Flux Density, SAR values (1g, 10g, 20g, 30g, 40g, 50g, 60g, 70g, 80g, 90g, 100g).



FCC SAR Test Report

Report No. : FA282619

	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 3	DSI 3	55830	3609	20.60	21.50	1.230	62.9	1.006	-0.02	0.069	0.085
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 3	DSI 3	55830	3609	19.19	20.50	1.352	62.9	1.006	0.03	0.057	0.078
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 8	DSI 3	55830	3609	17.35	18.10	1.189	62.9	1.006	0.06	0.027	0.032
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 8	DSI 3	55830	3609	17.21	18.10	1.227	62.9	1.006	-0.03	0.025	0.031
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	DSI 3	55830	3609	17.35	18.10	1.189	62.9	1.006	0.08	0.707	0.845
44	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	DSI 3	56150	3641	17.31	18.10	1.199	62.9	1.006	0.01	0.786	0.948
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	DSI 3	55340	3560	17.30	18.10	1.202	62.9	1.006	0.07	0.764	0.924
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	DSI 3	56640	3690	17.26	18.10	1.213	62.9	1.006	0.01	0.750	0.916
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	DSI 3	55830	3609	17.21	18.10	1.227	62.9	1.006	-0.02	0.738	0.911
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	DSI 3	56150	3641	17.14	18.10	1.247	62.9	1.006	0.09	0.715	0.897
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	DSI 3	55340	3560	17.16	18.10	1.242	62.9	1.006	0.03	0.742	0.927
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	DSI 3	56640	3690	17.05	18.10	1.274	62.9	1.006	0.03	0.722	0.925
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 8	DSI 3	55830	3609	17.08	18.10	1.265	62.9	1.006	0.07	0.736	0.936
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 8	DSI 3	55830	3609	17.35	18.10	1.189	62.9	1.006	0.02	0.076	0.091
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 8	DSI 3	55830	3609	17.21	18.10	1.227	62.9	1.006	0.04	0.067	0.083
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 8	DSI 3	55830	3609	17.35	18.10	1.189	62.9	1.006	0.09	0.012	0.014
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 8	DSI 3	55830	3609	17.21	18.10	1.227	62.9	1.006	-0.02	0.007	0.009
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 8	DSI 3	55830	3609	17.35	18.10	1.189	62.9	1.006	0.03	0.134	0.160
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 8	DSI 3	55830	3609	17.21	18.10	1.227	62.9	1.006	0.07	0.116	0.143



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
3500MHz																				
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 3	656000	3840	20.89	21.80	1.233	-	-	0.02	0.198	0.244
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 3	656000	3840	20.86	21.80	1.242	-	-	0.04	0.194	0.241
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 3	656000	3840	20.89	21.80	1.233	-	-	0.09	0.502	0.619
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 3	656000	3840	20.86	21.80	1.242	-	-	0.03	0.490	0.608
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 3	656000	3840	20.89	21.80	1.233	-	-	0.03	0.551	0.679
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 3	656000	3840	20.86	21.80	1.242	-	-	0.07	0.552	0.685
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 3	656000	3840	20.85	21.80	1.245	-	-	0.08	0.561	0.698
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 3	DSI 3	656000	3840	20.89	21.80	1.233	-	-	0.09	0.061	0.075
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 3	DSI 3	656000	3840	20.86	21.80	1.242	-	-	0.01	0.069	0.086
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 3	DSI 3	656000	3840	20.89	21.80	1.233	-	-	0.09	0.003	0.004
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 3	DSI 3	656000	3840	20.86	21.80	1.242	-	-	0.05	0.002	0.002
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 3	656000	3840	23.60	24.80	1.318	50	1.000	0.1	0.575	0.758
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3	656000	3840	23.13	23.50	1.089	-	-	0.07	0.207	0.225
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3	656000	3840	23.06	23.50	1.107	-	-	0.08	0.210	0.232
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3	656000	3840	23.13	23.50	1.089	-	-	0.01	0.431	0.469
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3	656000	3840	23.06	23.50	1.107	-	-	0.09	0.473	0.523
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3	656000	3840	23.13	23.50	1.089	-	-	0.03	0.029	0.032
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3	656000	3840	23.06	23.50	1.107	-	-	-0.02	0.041	0.045
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI 3	656000	3840	23.13	23.50	1.089	-	-	0.03	0.349	0.380
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI 3	656000	3840	23.06	23.50	1.107	-	-	0.07	0.486	0.538
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3	656000	3840	23.13	23.50	1.089	-	-	0.04	0.755	0.822
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3	656000	3840	23.06	23.50	1.107	-	-	0.03	0.732	0.810
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3	656000	3840	22.39	23.00	1.151	-	-	0.01	0.718	0.826
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 3	656000	3840	14.51	15.20	1.172	-	-	0.07	0.030	0.035
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 3	656000	3840	14.45	15.20	1.189	-	-	0.08	0.027	0.032
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	656000	3840	14.51	15.20	1.172	-	-	0.01	0.819	0.960
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	656000	3840	14.45	15.20	1.189	-	-	0.02	0.863	1.026
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	656000	3840	14.28	15.20	1.236	-	-	0.03	0.956	1.182
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI 3	656000	3840	14.51	15.20	1.172	-	-	0.04	0.082	0.096
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI 3	656000	3840	14.45	15.20	1.189	-	-	0.03	0.077	0.092
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 3	656000	3840	14.51	15.20	1.172	-	-	0.07	0.012	0.014
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 3	656000	3840	14.45	15.20	1.189	-	-	0.02	0.011	0.013
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	DSI 3	656000	3840	14.51	15.20	1.172	-	-	-0.02	0.119	0.139
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 8	DSI 3	656000	3840	14.45	15.20	1.189	-	-	0.03	0.109	0.130
45	FR1 n77 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	656000	3840	16.95	18.20	1.334	50	1.000	0.02	0.889	1.186
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI 3	656000	3840	17.19	17.90	1.178	-	-	0.03	0.279	0.329
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI 3	656000	3840	17.11	17.90	1.199	-	-	0.03	0.287	0.344
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI 3	656000	3840	17.19	17.90	1.178	-	-	0.03	0.437	0.515
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI 3	656000	3840	17.11	17.90	1.199	-	-	0.07	0.472	0.566
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	DSI 3	656000	3840	17.19	17.90	1.178	-	-	0.04	0.014	0.016
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	DSI 3	656000	3840	17.11	17.90	1.199	-	-	0.03	0.014	0.017
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI 3	656000	3840	17.19	17.90	1.178	-	-	0.11	0.830	0.977
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI 3	656000	3840	17.11	17.90	1.199	-	-	-0.02	0.850	1.020
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI 3	656000	3840	17.06	17.90	1.213	-	-	0.03	0.810	0.983
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI 3	656000	3840	17.19	17.90	1.178	-	-	0.07	0.086	0.101
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI 3	656000	3840	17.11	17.90	1.199	-	-	0.02	0.150	0.180
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI 3	656000	3840	20.11	20.90	1.199	50	1.000	0.06	0.851	1.021



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WIFI/BT																
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4+6	WWAN+non DBS	1	2412	16.29	18.00	1.483	97.86	1.022	0.06	0.103	0.156
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4+6	WWAN+non DBS	6	2437	15.95	17.50	1.429	97.86	1.022	0.09	0.109	0.159
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4+6	WWAN+non DBS	11	2462	16.26	18.00	1.493	97.86	1.022	0.07	0.111	0.169
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	WWAN+non DBS	1	2412	16.29	18.00	1.483	97.86	1.022	0.02	0.164	0.248
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	WWAN+non DBS	6	2437	15.95	17.50	1.429	97.86	1.022	0.04	0.174	0.254
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	WWAN+non DBS	11	2462	16.26	18.00	1.493	97.86	1.022	0.03	0.181	0.276
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 4+6	WWAN+non DBS	1	2412	16.29	18.00	1.483	97.86	1.022	0.11	0.020	0.030
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 4+6	WWAN+non DBS	1	2412	16.29	18.00	1.483	97.86	1.022	0.01	0.245	0.371
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 4+6	WWAN+non DBS	6	2437	15.95	17.50	1.429	97.86	1.022	0.1	0.239	0.349
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 4+6	WWAN+non DBS	11	2462	16.26	18.00	1.493	97.86	1.022	-0.02	0.154	0.235
46	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 4+6	WWAN+non DBS	1	2412	16.29	18.00	1.483	97.86	1.022	0.08	0.248	0.376
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 4+6	WWAN+non DBS	6	2437	15.95	17.50	1.429	97.86	1.022	0.06	0.241	0.352
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 4+6	WWAN+non DBS	11	2462	16.26	18.00	1.493	97.86	1.022	0.09	0.235	0.359
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 4+6	WWAN+DBS	1	2412	14.27	16.00	1.489	97.86	1.022	0.01	0.113	0.172
	Bluetooth	1Mbps	Front	5mm	Ant 4	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	-0.02	0.015	0.023
	Bluetooth	1Mbps	Back	5mm	Ant 4	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	0.03	0.011	0.017
	Bluetooth	1Mbps	Left Side	5mm	Ant 4	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	0.04	0.001	0.002
	Bluetooth	1Mbps	Right Side	5mm	Ant 4	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	0.03	0.026	0.039
	Bluetooth	1Mbps	Top Side	5mm	Ant 4	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	0.01	0.014	0.021
	Bluetooth	1Mbps	Front	5mm	Ant 6	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	0.06	0.027	0.041
	Bluetooth	1Mbps	Back	5mm	Ant 6	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	0.01	0.025	0.038
	Bluetooth	1Mbps	Left Side	5mm	Ant 6	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	-0.03	0.001	0.002
47	Bluetooth	1Mbps	Right Side	5mm	Ant 6	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	0.05	0.114	0.173
	Bluetooth	1Mbps	Top Side	5mm	Ant 6	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	0.02	0.014	0.021
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+7	WWAN+non DBS	42	5210	16.18	17.00	1.208	100	1.000	0.06	0.293	0.354
48	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	WWAN+non DBS	42	5210	16.18	17.00	1.208	100	1.000	0.01	0.303	0.366
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+7	WWAN+non DBS	42	5210	16.18	17.00	1.208	100	1.000	0.01	0.026	0.031
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+7	WWAN+non DBS	42	5210	16.18	17.00	1.208	100	1.000	0.03	0.263	0.318
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+7	WWAN+non DBS	42	5210	16.18	17.00	1.208	100	1.000	-0.02	0.279	0.337
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	WWAN+DBS	42	5210	13.14	14.00	1.219	100	1.000	0.02	0.156	0.190
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+7	WWAN+non DBS	155	5775	13.52	14.50	1.253	100	1.000	0.03	0.106	0.133
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	WWAN+non DBS	155	5775	13.52	14.50	1.253	100	1.000	0.04	0.200	0.251
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+7	WWAN+non DBS	155	5775	13.52	14.50	1.253	100	1.000	-0.02	0.010	0.013
49	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+7	WWAN+non DBS	155	5775	13.52	14.50	1.253	100	1.000	0.02	0.288	0.361
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+7	WWAN+non DBS	155	5775	13.52	14.50	1.253	100	1.000	0.01	0.169	0.212
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+7	WWAN+DBS	155	5775	10.51	11.50	1.256	100	1.000	0.06	0.136	0.171

16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																			
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	23095	707.5	22.98	24.00	1.265	0.03	0.232	0.293
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	23095	707.5	21.89	23.00	1.291	0.01	0.188	0.243
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	22.98	24.00	1.265	0.02	0.396	0.501
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	21.89	23.00	1.291	0.05	0.319	0.412
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	23095	707.5	22.79	24.00	1.321	0.06	0.283	0.374
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	23095	707.5	21.71	23.00	1.346	0.02	0.225	0.303
50	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	23095	707.5	22.79	24.00	1.321	0.01	0.577	0.762
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	23095	707.5	21.71	23.00	1.346	-0.03	0.462	0.622
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	23230	782	22.72	24.00	1.343	0.03	0.348	0.467
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	23230	782	21.71	23.00	1.346	0.01	0.278	0.374
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	22.72	24.00	1.343	-0.01	0.588	0.790
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	21.71	23.00	1.346	0.05	0.474	0.638
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	23230	782	22.52	24.00	1.406	0.03	0.325	0.457
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	23230	782	21.49	23.00	1.416	-0.08	0.255	0.361
51	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	23230	782	22.52	24.00	1.406	-0.01	0.624	0.877
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	23230	782	21.49	23.00	1.416	0.05	0.498	0.705
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	23230	782	21.46	23.00	1.426	0.02	0.472	0.673
835MHz																			
	GSM850	-	-	-	-	GPRS (3 Tx slot)	Front	5mm	Ant 0	-	DSI 3	189	836.4	28.36	29.00	1.159	0.03	0.187	0.217
	GSM850	-	-	-	-	GPRS (3 Tx slot)	Back	5mm	Ant 0	-	DSI 3	189	836.4	28.36	29.00	1.159	-0.02	0.338	0.392
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	-	DSI 3	189	836.4	28.23	29.00	1.194	0.06	0.508	0.607
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 3	189	836.4	28.23	29.00	1.194	0.01	0.918	1.096
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 3	128	824.2	28.10	29.00	1.230	-0.05	0.934	1.149
52	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 3	251	848.8	28.15	29.00	1.216	-0.09	0.964	1.172
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	Headset	DSI 3	251	848.8	28.15	29.00	1.216	0.02	0.952	1.158
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 3 Simultaneous	251	848.8	27.91	28.50	1.146	0.03	0.803	0.920
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	4182	836.4	24.22	25.00	1.197	0.02	0.382	0.457
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4182	836.4	24.22	25.00	1.197	-0.02	0.639	0.765
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	4182	836.4	24.03	25.00	1.250	0.06	0.460	0.575
53	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4182	836.4	24.03	25.00	1.250	0.02	0.780	0.975
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4132	826.4	23.83	25.00	1.309	0.03	0.741	0.970
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4233	846.6	23.90	25.00	1.288	0.01	0.719	0.926
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	26865	831.5	22.77	24.00	1.327	0.02	0.319	0.423
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	DSI 3	26865	831.5	21.63	23.00	1.371	0.01	0.265	0.363
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	22.77	24.00	1.327	0.06	0.605	0.803
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	21.63	23.00	1.371	0.01	0.489	0.670
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	21.67	23.00	1.358	0.03	0.501	0.681
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	26865	831.5	22.51	24.00	1.409	-0.01	0.397	0.559
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	-	DSI 3	26865	831.5	21.55	23.00	1.396	0.04	0.381	0.532
54	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	26865	831.5	22.51	24.00	1.409	0.01	0.702	0.989
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	DSI 3	26865	831.5	21.55	23.00	1.396	0.02	0.507	0.708
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 1	-	DSI 3	26865	831.5	21.45	23.00	1.429	0.06	0.501	0.716
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	167300	836.5	23.19	24.00	1.205	0.06	0.248	0.299
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	167300	836.5	23.14	24.00	1.219	-0.01	0.224	0.273
55	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	167300	836.5	23.19	24.00	1.205	0.02	0.416	0.501
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	167300	836.5	23.14	24.00	1.219	0.05	0.385	0.469
1750MHz																			
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	1413	1732.6	16.51	17.50	1.256	0.06	0.551	0.692
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1413	1732.6	16.51	17.50	1.256	0.02	0.892	1.120
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1312	1712.4	16.17	17.50	1.358	-0.03	0.914	1.241
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1513	1752.6	16.38	17.50	1.294	-0.06	0.962	1.245



	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	Headset	DSI 3	1513	1752.6	16.38	17.50	1.294	0.01	0.950	1.229
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3 Simultaneous	1513	1752.6	15.52	16.50	1.253	0.02	0.716	0.897
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	-	DSI 4	1413	1732.6	23.10	24.00	1.230	0.01	0.342	0.421
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 1	-	DSI 4	1513	1752.6	23.04	24.00	1.247	0.03	0.424	0.529
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 3	1413	1732.6	21.87	22.80	1.239	0.01	0.681	0.844
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 3	1312	1712.4	21.69	22.80	1.291	0.04	0.642	0.829
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 3	1513	1752.6	21.82	22.80	1.253	0.02	0.735	0.921
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 3	1413	1732.6	21.87	22.80	1.239	0.09	0.903	1.119
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 3	1312	1712.4	21.69	22.80	1.291	0.05	0.894	1.154
56	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 3	1513	1752.6	21.82	22.80	1.253	-0.07	1.000	1.253
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	Headset	DSI 3	1513	1752.6	21.82	22.80	1.253	0.05	0.985	1.234
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	-	DSI 4	1513	1752.6	23.46	25.00	1.426	0.05	0.381	0.543
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 2	-	DSI 4	1513	1752.6	23.46	25.00	1.426	-0.07	0.313	0.446
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	17.66	18.80	1.300	0.05	0.585	0.761
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	17.64	18.80	1.306	0.01	0.492	0.643
57	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	17.66	18.80	1.300	0.04	0.959	1.247
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	17.50	18.80	1.349	0.02	0.860	1.160
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	17.34	18.80	1.400	0.03	0.849	1.188
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	17.64	18.80	1.306	0.05	0.894	1.168
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	17.49	18.80	1.352	0.02	0.864	1.168
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	17.44	18.80	1.368	-0.03	0.909	1.243
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	17.58	18.80	1.324	-0.06	0.890	1.179
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	132322	1745	17.66	18.80	1.300	0.01	0.932	1.212
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	132322	1745	16.62	17.80	1.312	0.01	0.716	0.940
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 1	-	DSI 4	132322	1745	21.36	22.50	1.300	-0.03	0.356	0.463
	LTE Band 66	20M	QPSK	1	0	-	Back	19mm	Ant 1	-	DSI 4	132322	1745	21.36	22.50	1.300	0.01	0.441	0.573
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	132322	1745	21.81	23.00	1.315	0.01	0.737	0.969
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	132072	1720	21.73	23.00	1.340	-0.09	0.702	0.940
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	132572	1770	21.64	23.00	1.368	0.05	0.697	0.953
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	132322	1745	21.71	23.00	1.346	0.06	0.710	0.956
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	132072	1720	21.55	23.00	1.396	-0.02	0.712	0.994
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	132572	1770	21.63	23.00	1.371	0.04	0.687	0.942
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DSI 3	132322	1745	21.68	23.00	1.355	0.09	0.688	0.932
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	132322	1745	21.81	23.00	1.315	-0.02	0.943	1.240
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	132072	1720	21.73	23.00	1.340	0.02	0.873	1.170
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	132572	1770	21.64	23.00	1.368	-0.03	0.878	1.201
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	132322	1745	21.71	23.00	1.346	0.04	0.877	1.180
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	132072	1720	21.55	23.00	1.396	0.05	0.882	1.232
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	132572	1770	21.63	23.00	1.371	0.03	0.852	1.168
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	132322	1745	21.68	23.00	1.355	0.04	0.883	1.197
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 3	132322	1745	21.81	23.00	1.315	0.05	0.923	1.214
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 2	-	DSI 4	132322	1745	22.95	24.00	1.274	0.06	0.452	0.576
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 2	-	DSI 4	132072	1720	21.89	23.00	1.291	0.09	0.346	0.447
	LTE Band 66	20M	QPSK	1	0	-	Back	19mm	Ant 2	-	DSI 4	132322	1745	22.95	24.00	1.274	-0.02	0.275	0.350
1900MHz																			
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	-	DSI 3	661	1880	21.82	22.90	1.282	0.03	0.601	0.771



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	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	26140	1860	21.38	22.60	1.324	-0.05	0.890	1.179
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	26590	1905	21.39	22.60	1.321	0.06	0.883	1.167
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	26340	1880	21.48	22.60	1.294	0.04	0.886	1.147
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 3	26140	1860	21.25	22.60	1.365	0.03	0.907	1.238
	LTE Band 25	20M	QPSK	1	0	-	Front	15mm	Ant 2	-	DSI 4	26340	1880	22.72	24.00	1.343	0.06	0.422	0.567
	LTE Band 25	20M	QPSK	50	0	-	Front	15mm	Ant 2	-	DSI 4	26140	1860	21.68	23.00	1.355	0.03	0.276	0.374
	LTE Band 25	20M	QPSK	1	0	-	Back	19mm	Ant 2	-	DSI 4	26140	1860	22.56	24.00	1.393	0.01	0.268	0.373
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	376000	1880	18.17	18.50	1.079	0.03	0.570	0.615
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	376000	1880	18.16	18.50	1.081	-0.06	0.605	0.654
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	376000	1880	18.17	18.50	1.079	0.04	0.927	1.000
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	372000	1860	18.10	18.50	1.096	0.03	0.902	0.989
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	380000	1900	18.14	18.50	1.086	0.01	0.935	1.016
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	376000	1880	18.16	18.50	1.081	-0.05	0.933	1.009
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	372000	1860	17.98	18.50	1.127	0.09	0.910	1.026
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	380000	1900	18.05	18.50	1.109	0.05	0.959	1.064
62	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	376000	1880	17.46	18.50	1.271	0.04	0.978	1.243
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	DSI 3	376000	1880	17.46	18.50	1.271	0.02	0.960	1.220
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3 Simultaneous	376000	1880	16.46	17.50	1.271	-0.03	0.785	0.997
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI 4	376000	1880	23.66	24.00	1.081	0.06	0.111	0.120
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI 4	376000	1880	23.61	24.00	1.094	0.03	0.105	0.115
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	19mm	Ant 1	-	DSI 4	380000	1900	23.63	24.00	1.089	0.1	0.152	0.166
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	19mm	Ant 1	-	DSI 4	380000	1900	23.50	24.00	1.122	-0.06	0.146	0.164
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	19mm	Ant 1	-	DSI 4	376000	1880	22.74	23.00	1.062	0.01	0.133	0.141

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	19.71	20.80	1.285	-	-	0.03	0.676	0.869
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	20850	2510	19.63	20.80	1.309	-	-	0.01	0.655	0.858
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	21350	2560	19.61	20.80	1.315	-	-	-0.02	0.697	0.917
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	19.67	20.80	1.297	-	-	0.06	0.639	0.829
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	20850	2510	19.54	20.80	1.337	-	-	0.01	0.654	0.874
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	21350	2560	19.56	20.80	1.330	-	-	0.05	0.613	0.816
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	19.56	20.80	1.330	-	-	0.09	0.602	0.801
63	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	19.71	20.80	1.285	-	-	-0.02	0.972	1.249
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	19.63	20.80	1.309	-	-	0.03	0.939	1.229
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	19.61	20.80	1.315	-	-	0.01	0.914	1.202
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	19.67	20.80	1.297	-	-	-0.06	0.903	1.171
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	19.54	20.80	1.337	-	-	0.04	0.912	1.219
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	19.56	20.80	1.330	-	-	0.09	0.926	1.232
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	19.56	20.80	1.330	-	-	0.02	0.927	1.233
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	21100	2535	19.71	20.80	1.285	-	-	0.06	0.960	1.234
	LTE Band 7C	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	DSI 3	21100+21298	2535+2554.8	19.64	20.80	1.306	-	-	0.01	0.948	1.238
	LTE Band 7C	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	DSI 3	20850+21048	2510+2529.8	19.51	20.80	1.346	-	-	0.06	0.903	1.215
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350+21152	2560+2540.2	19.47	20.80	1.358	-	-	0.02	0.910	1.236
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	21100	2535	15.45	16.60	1.303	-	-	0.03	0.754	0.983
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 1	-	DSI 4	21350	2560	21.15	22.50	1.365	-	-	-0.02	0.333	0.454
	LTE Band 7	20M	QPSK	1	0	-	Back	19mm	Ant 1	-	DSI 4	21100	2535	21.45	22.50	1.274	-	-	0.03	0.263	0.335
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	21100	2535	20.48	21.80	1.355	-	-	0.06	0.594	0.805
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	20850	2510	20.35	21.80	1.396	-	-	0.01	0.578	0.807
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	21350	2560	20.40	21.80	1.380	-	-	0.02	0.581	0.802
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	21100	2535	20.43	21.80	1.371	-	-	-0.06	0.593	0.813
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	20850	2510	20.33	21.80	1.403	-	-	-0.01	0.580	0.814



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Table with columns: Band, Modulation, Power, Frequency, Distance, Orientation, Antenna, etc. Includes rows for LTE Bands 42, 42C, 48 and FR1 n77.



	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	Headset	DSI 3	656000	3840	25.89	26.10	1.050	50	1.000	0.05	1.130	1.186
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 3 Simultaneous	656000	3840	20.89	21.80	1.233	-	-	0.02	0.474	0.584
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 3 Simultaneous	656000	3840	23.72	24.80	1.282	50	1.000	0.04	0.758	0.972
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	656000	3840	23.65	24.00	1.084	-	-	0.09	0.413	0.448
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	656000	3840	23.58	24.00	1.102	-	-	0.01	0.420	0.463
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	656000	3840	23.65	24.00	1.084	-	-	0.02	0.861	0.933
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	656000	3840	23.58	24.00	1.102	-	-	0.06	0.946	1.042
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	656000	3840	22.45	23.00	1.135	-	-	0.09	0.988	1.121
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3 Simultaneous	656000	3840	22.39	23.00	1.151	-	-	0.06	0.716	0.824
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	-	DSI 4	656000	3840	23.65	24.00	1.084	-	-	0.02	0.286	0.310
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 7	-	DSI 4	656000	3840	23.58	24.00	1.102	-	-	-0.03	0.278	0.306
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	19mm	Ant 7	-	DSI 4	656000	3840	23.65	24.00	1.084	-	-	0.01	0.513	0.556
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	19mm	Ant 7	-	DSI 4	656000	3840	23.58	24.00	1.102	-	-	0.06	0.506	0.557
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	19mm	Ant 7	-	DSI 4	656000	3840	22.45	23.00	1.135	-	-	0.02	0.365	0.414
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	-	DSI 3	656000	3840	15.63	16.20	1.140	-	-	0.06	0.114	0.130
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	-	DSI 3	656000	3840	15.52	16.20	1.169	-	-	-0.01	0.118	0.138
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	656000	3840	15.63	16.20	1.140	-	-	0.02	0.978	1.115
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	656000	3840	15.52	16.20	1.169	-	-	0.06	0.987	1.154
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	656000	3840	15.46	16.20	1.186	-	-	-0.06	0.995	1.180
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3 Simultaneous	656000	3840	14.28	15.20	1.236	-	-	0.03	0.705	0.871
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	656000	3840	18.60	19.20	1.148	50	1.000	0.06	0.974	1.119
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	656000	3840	18.54	19.20	1.164	50	1.000	0.02	0.966	1.125
69	FR1 n77 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	656000	3840	18.51	19.20	1.172	50	1.000	0.02	1.050	1.231
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 8	Headset	DSI 3	656000	3840	18.51	19.20	1.172	50	1.000	0.02	0.995	1.166
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3 Simultaneous	656000	3840	16.95	18.20	1.334	50	1.000	0.01	0.741	0.988
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 8	-	DSI 4	656000	3840	25.35	26.50	1.303	50	1.000	0.03	0.085	0.111
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 8	-	DSI 4	656000	3840	25.30	26.50	1.318	50	1.000	0.06	0.083	0.109
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	19mm	Ant 8	-	DSI 4	656000	3840	25.35	26.50	1.303	50	1.000	0.04	0.599	0.781
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	19mm	Ant 8	-	DSI 4	656000	3840	25.30	26.50	1.318	50	1.000	-0.02	0.587	0.774
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	19mm	Ant 8	-	DSI 4	656000	3840	24.32	25.50	1.312	50	1.000	0.02	0.469	0.615
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	-	DSI 3	656000	3840	20.92	21.50	1.143	-	-	0.06	0.638	0.729
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	-	DSI 3	656000	3840	20.88	21.50	1.153	-	-	-0.03	0.656	0.757
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 9	-	DSI 3	656000	3840	20.81	21.50	1.172	-	-	0.01	0.643	0.754
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	-	DSI 3	656000	3840	20.92	21.50	1.143	-	-	0.02	0.910	1.040
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	-	DSI 3	656000	3840	20.88	21.50	1.153	-	-	-0.07	1.010	1.165
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 9	-	DSI 3	656000	3840	20.81	21.50	1.172	-	-	-0.04	0.889	1.042
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	-	DSI 3	656000	3840	23.72	24.50	1.197	50	1.000	0.11	0.981	1.174



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
WIFI/BT																		
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4+6	-	Full Power	1	2412	23.84	25.50	1.466	97.86	1.022	0.06	0.527	0.789	
70	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Full Power	1	2412	23.84	25.50	1.466	97.86	1.022	0.01	0.841	1.260	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Full Power	11	2462	22.27	23.50	1.327	97.86	1.022	0.09	0.637	0.864	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Full Power	6	2437	21.72	23.00	1.343	97.86	1.022	0.02	0.512	0.703	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	Headset	Full Power	1	2412	23.84	25.50	1.466	97.86	1.022	0.02	0.735	1.101	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	DBS Only	1	2412	21.78	23.50	1.486	97.86	1.022	0.06	0.517	0.785	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	WWAN+non DBS	1	2412	18.77	20.50	1.489	97.86	1.022	-0.02	0.255	0.388	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	WWAN+DBS	1	2412	15.75	17.50	1.496	97.86	1.022	0.01	0.123	0.188	
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 4+6	-	Full Power	1	2412	23.84	25.50	1.466	97.86	1.022	0.09	0.230	0.344	
	WLAN2.4GHz	802.11b 1Mbps	Back	19mm	Ant 4+6	-	Full Power	1	2412	23.84	25.50	1.466	97.86	1.022	-0.02	0.216	0.324	
71	Bluetooth	1Mbps	Front	5mm	Ant 4	-	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	0.08	0.065	0.098	
	Bluetooth	1Mbps	Back	5mm	Ant 4	-	Full Power	39	2441	13.82	14.50	1.169	76.99	1.299	0.03	0.050	0.076	
	Bluetooth	1Mbps	Front	5mm	Ant 6	-	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	-0.08	0.051	0.078	
	Bluetooth	1Mbps	Back	5mm	Ant 6	-	Full Power	39	2441	13.83	14.50	1.167	76.85	1.301	0.01	0.028	0.043	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+7	-	Standalone	58	5290	21.30	22.00	1.175	100	1.000	0.05	0.717	0.842	
72	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	Standalone	58	5290	21.30	22.00	1.175	100	1.000	0.01	0.975	1.146	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	Headset	Standalone	58	5290	21.30	22.00	1.175	100	1.000	0.06	0.960	1.128	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	DBS Only	58	5290	19.32	20.00	1.169	100	1.000	0.03	0.620	0.725	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	WWAN+non DBS	58	5290	16.28	17.00	1.180	100	1.000	0.01	0.315	0.372	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	WWAN+DBS	58	5290	13.30	14.00	1.175	100	1.000	-0.02	0.150	0.176	
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5+7	-	Full Power	54	5270	21.28	23.00	1.486	100	1.000	0.06	0.180	0.267	
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	19mm	Ant 5+7	-	Full Power	54	5270	21.28	23.00	1.486	100	1.000	0.02	0.305	0.453	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+7	-	Standalone	122	5610	20.15	21.00	1.216	100	1.000	0.06	0.446	0.542	
73	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	Standalone	122	5610	20.15	21.00	1.216	100	1.000	-0.01	0.800	0.973	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	Standalone	138	5690	19.99	21.00	1.262	100	1.000	-0.03	0.765	0.965	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	Headset	Standalone	122	5610	20.15	21.00	1.216	100	1.000	0.06	0.795	0.967	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	DBS Only	122	5610	18.16	19.00	1.213	100	1.000	0.06	0.620	0.752	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	WWAN+non DBS	122	5610	15.12	16.00	1.225	100	1.000	-0.01	0.310	0.380	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	WWAN+DBS	122	5610	12.14	13.00	1.219	100	1.000	0.03	0.149	0.182	
	WLAN5.5GHz	802.11a 6Mbps	Front	15mm	Ant 5+7	-	Full Power	140	5700	21.55	23.00	1.396	99.25	1.008	0.01	0.203	0.286	
	WLAN5.5GHz	802.11a 6Mbps	Back	19mm	Ant 5+7	-	Full Power	140	5700	21.55	23.00	1.396	99.25	1.008	0.03	0.317	0.446	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+7	-	Standalone	155	5775	20.99	22.00	1.262	100	1.000	0.06	0.412	0.520	
74	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	Standalone	155	5775	20.99	22.00	1.262	100	1.000	-0.02	0.779	0.983	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	Headset	Standalone	155	5775	20.99	22.00	1.262	100	1.000	0.03	0.760	0.959	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	DBS Only	155	5775	19.50	20.50	1.259	100	1.000	0.06	0.590	0.743	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	WWAN+non DBS	155	5775	16.48	17.50	1.265	100	1.000	0.01	0.302	0.382	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+7	-	WWAN+DBS	155	5775	13.52	14.50	1.253	100	1.000	-0.03	0.150	0.188	
	WLAN5.8GHz	802.11a 6Mbps	Front	15mm	Ant 5+7	-	Full Power	165	5825	22.53	24.00	1.403	99.25	1.008	0.02	0.195	0.276	
	WLAN5.8GHz	802.11a 6Mbps	Back	19mm	Ant 5+7	-	Full Power	165	5825	22.53	24.00	1.403	99.25	1.008	0.04	0.322	0.455	



16.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
835MHz																		
75	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	0mm	Ant 1	DSI 6	189	836.4	28.03	29.00	1.250	0.05	2.080	2.601
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	0mm	Ant 1	DSI 6	128	824.2	27.91	29.00	1.285	0.03	2.010	2.583
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	0mm	Ant 1	DSI 6	251	848.8	27.96	29.00	1.271	0.01	1.920	2.440
1750MHz																		
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1413	1732.6	20.97	21.80	1.211	0.04	1.950	2.361
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1312	1712.4	20.73	21.80	1.279	0.01	1.920	2.456
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1513	1752.6	20.84	21.80	1.247	0.02	2.030	2.532
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1413	1732.6	20.97	21.80	1.211	0.09	1.930	2.336
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1312	1712.4	20.73	21.80	1.279	0.03	1.900	2.431
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1513	1752.6	20.84	21.80	1.247	-0.03	1.910	2.383
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	1413	1732.6	20.97	21.80	1.211	-0.06	1.630	1.973
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	1312	1712.4	20.73	21.80	1.279	0.01	1.650	2.111
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	1513	1752.6	20.84	21.80	1.247	0.02	1.560	1.946
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	1413	1732.6	20.97	21.80	1.211	0.06	2.080	2.518
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	1312	1712.4	20.73	21.80	1.279	0.03	2.130	2.725
76	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	1513	1752.6	20.84	21.80	1.247	-0.05	2.210	2.757
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 1	DSI 4	1513	1752.6	23.04	24.00	1.247	-0.06	0.460	0.574
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	14mm	Ant 1	DSI 4	1312	1712.4	22.95	24.00	1.274	0.01	0.393	0.500
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	17mm	Ant 1	DSI 4	1312	1712.4	22.95	24.00	1.274	0.02	0.202	0.257
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	12mm	Ant 1	DSI 4	1513	1752.6	23.04	24.00	1.247	0.06	0.458	0.571
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	1413	1732.6	21.78	23.30	1.419	0.06	1.220	1.731
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1413	1732.6	21.78	23.30	1.419	0.02	1.860	2.639
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1312	1712.4	21.58	23.30	1.486	0.01	1.810	2.690
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1513	1752.6	21.76	23.30	1.426	-0.04	1.930	2.751
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	1413	1732.6	21.78	23.30	1.419	-0.01	1.770	2.512
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	1312	1712.4	21.58	23.30	1.486	-0.05	1.640	2.437
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	1513	1752.6	21.76	23.30	1.426	0.03	1.810	2.580
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 2	DSI 4	1413	1732.6	23.52	25.00	1.406	0.04	0.472	0.664
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	12mm	Ant 2	DSI 4	1513	1752.6	23.46	25.00	1.426	-0.04	0.429	0.612
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	15mm	Ant 2	DSI 4	1513	1752.6	23.46	25.00	1.426	0.03	0.384	0.547
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	19.91	21.00	1.285	0.01	2.050	2.635
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132072	1720	19.87	21.00	1.297	0.08	2.040	2.646
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132572	1770	19.82	21.00	1.312	-0.09	1.950	2.559
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	19.85	21.00	1.303	0.02	1.970	2.567
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132072	1720	19.70	21.00	1.349	-0.03	1.950	2.630
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132572	1770	19.84	21.00	1.306	-0.06	1.880	2.456
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	19.76	21.00	1.330	0.01	1.860	2.475
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	19.91	21.00	1.285	0.02	2.060	2.648
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132072	1720	19.87	21.00	1.297	0.06	1.940	2.517
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132572	1770	19.82	21.00	1.312	0.04	1.980	2.598
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	19.85	21.00	1.303	-0.03	1.940	2.528
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132072	1720	19.70	21.00	1.349	-0.06	1.910	2.577
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132572	1770	19.84	21.00	1.306	0.01	1.990	2.599
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	19.76	21.00	1.330	0.02	1.930	2.568
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	132322	1745	19.91	21.00	1.285	0.06	1.570	2.018
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	132072	1720	19.87	21.00	1.297	0.04	1.550	2.011
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	132572	1770	19.82	21.00	1.312	0.03	1.490	1.955
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	132322	1745	19.85	21.00	1.303	0.08	1.580	2.059
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	132072	1720	19.70	21.00	1.349	0.05	1.530	2.064
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	132572	1770	19.84	21.00	1.306	0.02	1.410	1.842



Table with columns: LTE Band 66, 20M, QPSK, 100, 0, -, Left Side, 0mm, Ant 1, DSI 6, 132322, 1745, 19.76, 21.00, 1.330, -0.03, 1.370, 1.823. Includes rows for 77 and 78.

1900MHz



FCC SAR Test Report

Report No. : FA282619

	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Front	0mm	Ant 1	DSI 6	661	1880	29.45	30.50	1.274	0.01	1.390	1.770
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Back	0mm	Ant 1	DSI 6	661	1880	29.45	30.50	1.274	0.09	1.160	1.477
80	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Left Side	0mm	Ant 1	DSI 6	661	1880	29.45	30.50	1.274	0.07	2.230	2.840
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Left Side	0mm	Ant 1	DSI 6	512	1850.2	29.21	30.50	1.346	0.06	2.050	2.759
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Left Side	0mm	Ant 1	DSI 6	810	1909.8	29.33	30.50	1.309	0.09	2.060	2.697
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Top Side	0mm	Ant 1	DSI 6	661	1880	29.45	30.50	1.274	0.06	1.230	1.566
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Front	0mm	Ant 2	DSI 6	661	1880	29.47	30.50	1.268	0.03	1.230	1.559
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Back	0mm	Ant 2	DSI 6	661	1880	29.47	30.50	1.268	0.06	1.450	1.838
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Right Side	0mm	Ant 2	DSI 6	661	1880	29.47	30.50	1.268	0.04	0.856	1.085
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Bottom Side	0mm	Ant 2	DSI 6	661	1880	29.47	30.50	1.268	0.02	1.610	2.041
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Bottom Side	0mm	Ant 2	DSI 6	512	1850.2	29.24	30.50	1.337	-0.01	1.600	2.139
	GSM1900	-	-	-	-	GPRS (1 Tx slot)	Bottom Side	0mm	Ant 2	DSI 6	810	1909.8	29.35	30.50	1.303	0.08	1.660	2.163
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9400	1880	20.35	21.50	1.303	0.08	1.310	1.707
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9400	1880	20.35	21.50	1.303	0.02	1.080	1.407
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	9400	1880	20.35	21.50	1.303	0.06	2.000	2.606
81	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	9262	1852.4	20.14	21.50	1.368	0.09	2.010	2.749
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	9538	1907.6	20.31	21.50	1.315	0.03	1.970	2.591
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	9400	1880	20.35	21.50	1.303	-0.06	1.350	1.759
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 1	DSI 4	9400	1880	22.84	24.00	1.306	0.01	0.372	0.486
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	14mm	Ant 1	DSI 4	9400	1880	22.84	24.00	1.306	0.02	0.359	0.469
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	17mm	Ant 1	DSI 4	9262	1852.4	22.64	24.00	1.368	0.06	0.177	0.242
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	12mm	Ant 1	DSI 4	9400	1880	22.84	24.00	1.306	0.09	0.466	0.609
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	9400	1880	21.51	22.80	1.346	0.03	1.140	1.534
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9400	1880	21.51	22.80	1.346	-0.02	1.900	2.557
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9262	1852.4	21.25	22.80	1.429	0.04	1.910	2.729
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9538	1907.6	21.44	22.80	1.368	0.09	1.880	2.571
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	9400	1880	21.51	22.80	1.346	0.06	1.750	2.355
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	9262	1852.4	21.25	22.80	1.429	0.04	1.820	2.601
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	9538	1907.6	21.44	22.80	1.368	0.03	1.790	2.448
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 2	DSI 4	9400	1880	23.62	25.00	1.374	0.04	0.276	0.379
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	12mm	Ant 2	DSI 4	9262	1852.4	23.45	25.00	1.429	0.03	0.170	0.243
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	15mm	Ant 2	DSI 4	9262	1852.4	23.45	25.00	1.429	-0.01	0.349	0.499
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	26340	1880	20.34	21.50	1.306	0.08	1.420	1.855
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	26340	1880	20.13	21.00	1.222	0.06	1.340	1.637
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	26340	1880	20.34	21.50	1.306	0.09	1.210	1.580
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	26340	1880	20.13	21.00	1.222	0.02	1.140	1.393
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	26340	1880	20.34	21.50	1.306	0.07	2.000	2.612
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	26140	1860	20.29	21.50	1.321	0.06	1.930	2.550
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	26590	1905	20.33	21.50	1.309	-0.03	1.990	2.605
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	26340	1880	20.13	21.00	1.222	0.02	1.870	2.285
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	26140	1860	20.07	21.00	1.239	0.06	1.910	2.366
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	26590	1905	20.00	21.00	1.259	0.09	1.860	2.342
	LTE Band 25	20M	QPSK	100	0	-	Left Side	0mm	Ant 1	DSI 6	26340	1880	20.02	21.00	1.253	0.03	1.880	2.356
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	26340	1880	20.34	21.50	1.306	-0.06	1.440	1.881
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	26340	1880	20.13	21.00	1.222	0.08	1.210	1.478
	LTE Band 25	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	26340	1880	21.18	22.00	1.208	0.03	0.364	0.440
	LTE Band 25	20M	QPSK	1	0	-	Back	14mm	Ant 1	DSI 4	26340	1880	21.18	22.00	1.208	-0.02	0.344	0.415
	LTE Band 25	20M	QPSK	1	0	-	Left Side	17mm	Ant 1	DSI 4	26340	1880	21.18	22.00	1.208	0.06	0.186	0.225
	LTE Band 25	20M	QPSK	1	0	-	Top Side	12mm	Ant 1	DSI 4	26340	1880	21.18	22.00	1.208	0.04	0.447	0.540
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	26340	1880	21.22	21.80	1.143	0.03	1.440	1.646
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	26340	1880	21.17	21.80	1.156	0.06	1.220	1.410
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	26340	1880	21.22	21.80	1.143	0.01	2.020	2.309
82	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	26140	1860	20.97	21.80	1.211	0.05	2.250	2.724
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	26590	1905	21.10	21.80	1.175	0.09	2.160	2.538
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	26340	1880	21.17	21.80	1.156	0.06	2.080	2.405



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	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	26140	1860	21.04	21.80	1.191	0.04	2.040	2.430
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	26590	1905	21.02	21.80	1.197	0.09	2.030	2.429
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	26340	1880	21.18	21.80	1.153	0.03	2.060	2.376
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	26340	1880	21.22	21.80	1.143	0.02	2.110	2.411
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	26140	1860	20.97	21.80	1.211	0.01	2.070	2.506
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	26590	1905	21.10	21.80	1.175	-0.02	2.050	2.409
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	26340	1880	21.17	21.80	1.156	0.08	1.970	2.278
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	26140	1860	21.04	21.80	1.191	0.06	1.980	2.359
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	26590	1905	21.02	21.80	1.197	-0.03	1.990	2.382
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI 6	26340	1880	21.18	21.80	1.153	0.02	1.950	2.249
	LTE Band 25	20M	QPSK	1	0	-	Front	9mm	Ant 2	DSI 4	26340	1880	22.72	24.00	1.343	0.06	0.242	0.325
	LTE Band 25	20M	QPSK	1	0	-	Back	12mm	Ant 2	DSI 4	26140	1860	22.56	24.00	1.393	0.09	0.155	0.216
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 2	DSI 4	26140	1860	22.56	24.00	1.393	0.03	0.315	0.439
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	376000	1880	20.40	21.50	1.288	0.04	1.340	1.726
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	376000	1880	20.35	21.50	1.303	0.03	1.450	1.890
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	376000	1880	20.40	21.50	1.288	0.08	1.150	1.481
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	376000	1880	20.35	21.50	1.303	0.04	1.170	1.525
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	376000	1880	20.40	21.50	1.288	0.06	1.980	2.551
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	372000	1860	20.17	21.50	1.358	0.04	1.910	2.594
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	380000	1900	20.21	21.50	1.346	0.05	1.960	2.638
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	376000	1880	20.35	21.50	1.303	0.09	2.010	2.619
83	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	372000	1860	20.32	21.50	1.312	-0.06	2.110	2.769
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	380000	1900	20.21	21.50	1.346	0.04	1.950	2.624
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	376000	1880	20.30	21.50	1.318	0.06	1.830	2.412
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	376000	1880	20.40	21.50	1.288	0.09	1.420	1.829
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	376000	1880	20.35	21.50	1.303	0.09	1.380	1.798
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	9mm	Ant 1	DSI 4	376000	1880	23.61	24.00	1.094	0.06	0.524	0.573
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	14mm	Ant 1	DSI 4	376000	1880	23.61	24.00	1.094	0.08	0.479	0.524
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	17mm	Ant 1	DSI 4	372000	1860	23.54	24.00	1.112	0.02	0.256	0.285
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	12mm	Ant 1	DSI 4	376000	1880	23.66	24.00	1.081	0.06	0.576	0.623



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	20.56	21.40	1.213	-	-	0.01	0.954	1.158
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	20.55	21.40	1.216	-	-	0.06	0.872	1.061
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	20.56	21.40	1.213	-	-	0.01	0.750	0.910
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	20.55	21.40	1.216	-	-	0.06	0.659	0.801
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	20.56	21.40	1.213	-	-	0.07	2.140	2.597
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	20850	2510	20.54	21.40	1.219	-	-	0.04	1.920	2.340
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	21350	2560	20.42	21.40	1.253	-	-	0.09	1.990	2.494
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	20.55	21.40	1.216	-	-	0.03	1.980	2.408
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	20850	2510	20.51	21.40	1.227	-	-	0.02	2.040	2.504
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	21350	2560	20.51	21.40	1.227	-	-	0.06	1.960	2.406
	LTE Band 7	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	20.44	21.40	1.247	-	-	-0.03	1.980	2.470
	LTE Band 7C	20M	QPSK	1	99	-	Top Side	0mm	Ant 1	DSI 6	21100+21298	2535+2554.8	20.48	21.40	1.236	-	-	0.01	2.090	2.583
	LTE Band 7	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	21100	2535	21.45	22.50	1.274	-	-	0.03	0.360	0.458
	LTE Band 7	20M	QPSK	1	0	-	Back	14mm	Ant 1	DSI 4	21100	2535	21.45	22.50	1.274	-	-	0.02	0.423	0.539
	LTE Band 7	20M	QPSK	50	0	-	Back	14mm	Ant 1	DSI 4	21100	2535	20.48	21.50	1.265	-	-	0.02	0.264	0.334
	LTE Band 7	20M	QPSK	1	0	-	Top Side	12mm	Ant 1	DSI 4	21100	2535	21.45	22.50	1.274	-	-	0.01	0.534	0.680
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	21100	2535	21.83	23.10	1.340	-	-	0.07	1.240	1.661
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	21100	2535	21.78	23.00	1.324	-	-	0.06	1.150	1.523
84	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	21100	2535	21.83	23.10	1.340	-	-	0.09	2.040	2.733
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	20850	2510	21.70	23.10	1.380	-	-	0.03	1.960	2.706
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	21350	2560	21.78	23.10	1.355	-	-	-0.04	1.970	2.670
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	21100	2535	21.78	23.00	1.324	-	-	0.03	2.030	2.688
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	20850	2510	21.66	23.00	1.361	-	-	0.09	1.990	2.709
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	21350	2560	21.66	23.00	1.361	-	-	0.05	1.920	2.614
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	21100	2535	21.64	23.00	1.368	-	-	0.06	1.960	2.681
	LTE Band 7C	20M	QPSK	1	99	-	Back	0mm	Ant 2	DSI 6	21100+21298	2535+2554.8	21.68	23.10	1.387	-	-	0.09	1.950	2.704
	LTE Band 7	20M	QPSK	1	0	-	Front	9mm	Ant 2	DSI 4	21100	2535	23.04	24.00	1.247	-	-	0.09	0.385	0.480
	LTE Band 7	20M	QPSK	1	0	-	Back	12mm	Ant 2	DSI 4	21100	2535	23.04	24.00	1.247	-	-	0.03	0.348	0.434
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	19.44	20.80	1.368	-	-	0.09	1.390	1.901
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	19.39	20.80	1.384	-	-	0.03	1.530	2.117
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	19.30	20.80	1.413	-	-	0.02	1.430	2.020
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	19.44	20.80	1.368	-	-	0.07	0.992	1.357
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	19.39	20.80	1.384	-	-	0.04	1.000	1.384
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	19.44	20.80	1.368	-	-	0.02	1.890	2.585
85	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	19.39	20.80	1.384	-	-	0.03	1.900	2.629
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	19.30	20.80	1.413	-	-	0.09	1.840	2.599
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	9mm	Ant 1	DSI 4	507000	2535	23.29	24.00	1.178	-	-	0.03	0.214	0.252
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	14mm	Ant 1	DSI 4	507000	2535	23.29	24.00	1.178	-	-	0.04	0.152	0.179
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	12mm	Ant 1	DSI 4	507000	2535	23.29	24.00	1.178	-	-	0.03	0.340	0.400
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	507000	2535	21.43	22.40	1.250	-	-	0.03	1.150	1.438
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	507000	2535	21.40	22.40	1.259	-	-	-0.04	1.260	1.586
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	507000	2535	21.43	22.40	1.250	-	-	0.07	1.980	2.476
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	507000	2535	21.40	22.40	1.259	-	-	0.08	2.050	2.581
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	507000	2535	21.30	22.40	1.288	-	-	0.06	1.970	2.538
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	507000	2535	21.43	22.40	1.250	-	-	0.09	0.995	1.244
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	507000	2535	21.40	22.40	1.259	-	-	0.02	0.947	1.192
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	9mm	Ant 2	DSI 4	507000	2535	23.29	24.00	1.178	-	-	0.06	0.270	0.318
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	12mm	Ant 2	DSI 4	507000	2535	23.29	24.00	1.178	-	-	0.06	0.241	0.284
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	15mm	Ant 2	DSI 4	507000	2535	23.30	24.00	1.175	-	-	0.07	0.104	0.122
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	21.70	22.30	1.148	62.9	1.006	-0.02	1.070	1.236



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	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	20.68	22.00	1.355	62.9	1.006	0.04	1.110	1.513
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	21.70	22.30	1.148	62.9	1.006	0.07	0.758	0.876
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	20.68	22.00	1.355	62.9	1.006	0.07	0.794	1.082
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	21.70	22.30	1.148	62.9	1.006	0.09	2.160	2.495
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	39750	2506	21.44	22.30	1.219	62.9	1.006	0.06	2.230	2.735
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	21.64	22.30	1.164	62.9	1.006	0.03	2.030	2.377
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	41055	2636.5	21.59	22.30	1.178	62.9	1.006	0.02	2.150	2.547
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	41490	2680	21.51	22.30	1.199	62.9	1.006	0.07	2.060	2.486
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	20.68	22.00	1.355	62.9	1.006	0.04	2.030	2.768
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	39750	2506	20.51	22.00	1.409	62.9	1.006	0.09	1.950	2.765
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	20.64	22.00	1.368	62.9	1.006	0.03	2.030	2.793
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	41055	2636.5	20.56	22.00	1.393	62.9	1.006	0.02	1.910	2.677
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	41490	2680	20.46	22.00	1.426	62.9	1.006	0.07	1.840	2.639
	LTE Band 41	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	20.60	22.00	1.380	62.9	1.006	0.04	1.920	2.666
	LTE Band 41C	20M	QPSK	1	99	-	Top Side	0mm	Ant 1	DSI 6	40185+ 40383	2549.5+ 2569.3	21.58	22.30	1.180	62.9	1.006	0.01	2.180	2.589
86	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	22.40	23.90	1.413	42.9	1.009	-0.06	2.050	2.922
	LTE Band 41	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	40620	2593	21.70	23.00	1.349	62.9	1.006	0.02	0.533	0.723
	LTE Band 41	20M	QPSK	50	0	-	Front	9mm	Ant 1	DSI 4	40620	2593	20.68	22.00	1.355	62.9	1.006	0.06	0.358	0.488
	LTE Band 41	20M	QPSK	1	0	-	Back	14mm	Ant 1	DSI 4	40620	2593	21.70	23.00	1.349	62.9	1.006	0.04	0.452	0.613
	LTE Band 41	20M	QPSK	50	0	-	Back	14mm	Ant 1	DSI 4	40620	2593	20.68	22.00	1.355	62.9	1.006	0.09	0.256	0.349
	LTE Band 41	20M	QPSK	1	0	-	Top Side	12mm	Ant 1	DSI 4	39750	2506	21.44	23.00	1.432	62.9	1.006	0.06	0.335	0.483
	LTE Band 41	20M	QPSK	50	0	-	Top Side	12mm	Ant 1	DSI 4	40185	2549.5	20.64	22.00	1.368	62.9	1.006	0.06	0.166	0.228
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	40620	2593	22.64	23.40	1.191	62.9	1.006	0.09	1.130	1.354
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	40620	2593	21.64	23.00	1.368	62.9	1.006	0.09	1.170	1.610
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	40620	2593	22.64	23.40	1.191	62.9	1.006	0.06	1.820	2.181
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	39750	2506	22.43	23.40	1.250	62.9	1.006	0.09	2.020	2.541
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	40185	2549.5	22.55	23.40	1.216	62.9	1.006	0.07	1.880	2.300
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	41055	2636.5	22.59	23.40	1.205	62.9	1.006	0.02	1.830	2.218
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	41490	2680	22.56	23.40	1.213	62.9	1.006	0.01	2.000	2.441
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	40620	2593	21.64	23.00	1.368	62.9	1.006	0.07	1.880	2.587
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	39750	2506	21.49	23.00	1.416	62.9	1.006	0.03	1.790	2.549
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	40185	2549.5	21.60	23.00	1.380	62.9	1.006	-0.02	1.900	2.638
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	41055	2636.5	21.55	23.00	1.396	62.9	1.006	0.01	1.860	2.613
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	41490	2680	21.50	23.00	1.413	62.9	1.006	-0.03	1.800	2.558
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	40620	2593	21.60	23.00	1.380	62.9	1.006	0.07	1.860	2.583
	LTE Band 41C	20M	QPSK	1	99	-	Back	0mm	Ant 2	DSI 6	40185+ 40383	2549.5+ 2569.3	22.41	23.40	1.256	62.9	1.006	0.01	1.850	2.338
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	40185	2549.5	23.81	25.00	1.315	42.9	1.009	0.01	1.880	2.495
	LTE Band 41	20M	QPSK	1	0	-	Front	9mm	Ant 2	DSI 4	40620	2593	22.94	24.00	1.276	62.9	1.006	0.01	0.523	0.672
	LTE Band 41	20M	QPSK	50	0	-	Front	9mm	Ant 2	DSI 4	40620	2593	21.94	23.00	1.276	62.9	1.006	0.01	0.309	0.397
	LTE Band 41	20M	QPSK	1	0	-	Back	12mm	Ant 2	DSI 4	39750	2506	22.71	24.00	1.346	62.9	1.006	0.07	0.242	0.328
	LTE Band 41	20M	QPSK	50	0	-	Back	12mm	Ant 2	DSI 4	40185	2549.5	21.90	23.00	1.288	62.9	1.006	0.07	0.106	0.137
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 0	DSI 6	40620	2593	20.99	22.00	1.262	62.9	1.006	0.01	1.970	2.501
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 0	DSI 6	39750	2506	20.88	22.00	1.294	62.9	1.006	0.07	1.980	2.578
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 0	DSI 6	40185	2549.5	20.98	22.00	1.265	62.9	1.006	0.03	1.910	2.430
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 0	DSI 6	41055	2636.5	20.83	22.00	1.309	62.9	1.006	0.01	1.860	2.450
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 0	DSI 6	41490	2680	20.82	22.00	1.312	62.9	1.006	0.02	1.830	2.416
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 0	DSI 6	40620	2593	20.97	22.00	1.268	62.9	1.006	0.01	1.990	2.538
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 0	DSI 6	39750	2506	20.79	22.00	1.321	62.9	1.006	0.07	2.020	2.685
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 0	DSI 6	40185	2549.5	20.94	22.00	1.276	62.9	1.006	0.04	2.010	2.581
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 0	DSI 6	41055	2636.5	20.96	22.00	1.271	62.9	1.006	0.03	1.910	2.441
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 0	DSI 6	41490	2680	20.91	22.00	1.285	62.9	1.006	-0.02	1.970	2.547
	LTE Band 41	20M	QPSK	100	0	-	Left Side	0mm	Ant 0	DSI 6	40620	2593	20.97	22.00	1.268	62.9	1.006	0.01	1.960	2.500
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	20.99	22.00	1.262	62.9	1.006	0.02	1.060	1.346
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	20.97	22.00	1.268	62.9	1.006	0.02	1.040	1.326



	LTE Band 41C	20M	QPSK	1	99	-	Left Side	0mm	Ant 0	DSI 6	39750+39948	2506+2525.8	20.72	22.00	1.343	62.9	1.006	0.01	1.940	2.621
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Left Side	0mm	Ant 0	DSI 6	39750	2506	22.01	23.60	1.442	42.9	1.009	0.03	1.880	2.736
	LTE Band 41	20M	QPSK	1	0	-	Left Side	14mm	Ant 0	DSI 4	39750	2506	22.17	23.00	1.211	62.9	1.006	0.01	0.126	0.153
	LTE Band 41	20M	QPSK	50	0	-	Left Side	14mm	Ant 0	DSI 4	39750	2506	21.06	22.00	1.242	62.9	1.006	0.01	0.085	0.106
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	16mm	Ant 0	DSI 4	40620	2593	22.36	23.00	1.159	62.9	1.006	0.02	0.100	0.117
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	40620	2593	19.25	20.00	1.189	62.9	1.006	0.03	1.690	2.021
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	39750	2506	18.92	20.00	1.282	62.9	1.006	0.04	1.680	2.167
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	40185	2549.5	19.13	20.00	1.222	62.9	1.006	0.01	1.640	2.016
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	41055	2636.5	19.05	20.00	1.245	62.9	1.006	0.02	1.610	2.016
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	41490	2680	19.21	20.00	1.199	62.9	1.006	0.01	1.590	1.919
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	40620	2593	18.15	19.00	1.216	62.9	1.006	0.07	1.640	2.007
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	39750	2506	17.97	19.00	1.268	62.9	1.006	0.02	1.620	2.066
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	40185	2549.5	18.10	19.00	1.230	62.9	1.006	0.03	1.570	1.943
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	41055	2636.5	18.02	19.00	1.253	62.9	1.006	-0.01	1.560	1.967
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 6	41490	2680	18.10	19.00	1.230	62.9	1.006	0.05	1.630	2.017
	LTE Band 41	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	DSI 6	40620	2593	18.09	19.00	1.233	62.9	1.006	0.06	1.620	2.010
	LTE Band 41C	20M	QPSK	1	99	-	Top Side	0mm	Ant 4	DSI 6	39750+39948	2506+2525.8	18.82	20.00	1.312	62.9	1.006	0.04	1.640	2.165
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	39750	2506	21.11	21.50	1.094	42.9	1.009	0.03	2.050	2.263
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	518598	2592.99	19.51	20.60	1.285	-	-	0.09	1.770	2.275
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	518598	2592.99	19.44	20.60	1.306	-	-	0.03	1.640	2.142
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	518598	2592.99	19.38	20.60	1.324	-	-	0.02	1.620	2.145
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	518598	2592.99	19.51	20.60	1.285	-	-	0.03	1.150	1.478
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	518598	2592.99	19.44	20.60	1.306	-	-	0.02	1.280	1.672
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 1	DSI 6	518598	2592.99	19.51	20.60	1.285	-	-	0.05	2.020	2.596
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 1	DSI 6	518598	2592.99	19.44	20.60	1.306	-	-	0.01	1.850	2.416
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	0mm	Ant 1	DSI 6	518598	2592.99	19.38	20.60	1.324	-	-	-0.02	1.870	2.477
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	9mm	Ant 1	DSI 4	518598	2592.99	23.24	24.00	1.191	-	-	0.09	0.222	0.264
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	14mm	Ant 1	DSI 4	518598	2592.99	23.18	24.00	1.208	-	-	0.02	0.161	0.194
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	12mm	Ant 1	DSI 4	518598	2592.99	23.24	24.00	1.191	-	-	0.05	0.358	0.426
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 6	518598	2592.99	21.04	22.10	1.276	-	-	0.02	1.190	1.519
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 6	518598	2592.99	20.97	22.10	1.297	-	-	0.07	1.250	1.621
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	518598	2592.99	21.04	22.10	1.276	-	-	-0.02	1.990	2.540
87	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	518598	2592.99	20.97	22.10	1.297	-	-	0.04	2.130	2.763
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	518598	2592.99	20.84	22.10	1.337	-	-	0.09	2.060	2.753
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 2	DSI 6	518598	2592.99	21.04	22.10	1.276	-	-	0.02	1.530	1.953
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 2	DSI 6	518598	2592.99	20.97	22.10	1.297	-	-	0.01	1.510	1.959
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	518598	2592.99	21.04	22.10	1.276	-	-	0.04	0.943	1.204
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	518598	2592.99	20.97	22.10	1.297	-	-	0.03	0.937	1.215
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	9mm	Ant 2	DSI 4	518598	2592.99	22.97	24.00	1.268	-	-	0.07	0.212	0.269
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	12mm	Ant 2	DSI 4	518598	2592.99	22.97	24.00	1.268	-	-	0.04	0.205	0.260
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	9mm	Ant 2	DSI 4	518598	2592.99	23.03	24.00	1.250	-	-	0.02	0.160	0.200
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	15mm	Ant 2	DSI 4	518598	2592.99	23.03	24.00	1.250	-	-	0.04	0.077	0.096
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 0	DSI 6	518598	2592.99	19.47	20.50	1.268	-	-	0.04	0.627	0.795
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 0	DSI 6	518598	2592.99	19.39	20.50	1.291	-	-	0.03	0.762	0.984
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 6	518598	2592.99	19.47	20.50	1.268	-	-	0.03	0.778	0.986
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 6	518598	2592.99	19.39	20.50	1.291	-	-	0.01	0.878	1.134
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 0	DSI 6	518598	2592.99	19.47	20.50	1.268	-	-	0.02	2.140	2.713
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 0	DSI 6	518598	2592.99	19.39	20.50	1.291	-	-	0.02	2.080	2.686
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	0mm	Ant 0	DSI 6	518598	2592.99	19.36	20.50	1.300	-	-	0.09	2.030	2.639
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 0	DSI 6	518598	2592.99	19.47	20.50	1.268	-	-	0.02	1.070	1.356
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 0	DSI 6	518598	2592.99	19.39	20.50	1.291	-	-	0.01	1.180	1.524
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	12mm	Ant 0	DSI 4	518598	2592.99	23.13	24.00	1.222	-	-	0.03	0.041	0.050
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	19mm	Ant 0	DSI 4	518598	2592.99	23.13	24.00	1.222	-	-	0.01	0.032	0.039
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	14mm	Ant 0	DSI 4	518598	2592.99	23.18	24.00	1.208	-	-	0.02	0.063	0.076



	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	16mm	Ant 0	DSI 4	518598	2592.99	23.13	24.00	1.222	-	-	0.05	0.060	0.073
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSI 6	518598	2592.99	20.42	21.60	1.312	-	-	0.02	1.160	1.522
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 4	DSI 6	518598	2592.99	20.40	21.60	1.318	-	-	0.04	1.100	1.450
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 4	DSI 6	518598	2592.99	20.42	21.60	1.312	-	-	0.05	0.847	1.111
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 4	DSI 6	518598	2592.99	20.40	21.60	1.318	-	-	-0.03	0.810	1.068
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 4	DSI 6	518598	2592.99	20.42	21.60	1.312	-	-	0.03	1.950	2.559
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 4	DSI 6	518598	2592.99	20.40	21.60	1.318	-	-	0.04	1.910	2.518
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	0mm	Ant 4	DSI 6	518598	2592.99	20.16	21.50	1.361	-	-	0.02	1.850	2.519
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 4	DSI 4	518598	2592.99	21.12	22.50	1.374	-	-	0.02	0.132	0.181
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	18mm	Ant 4	DSI 4	518598	2592.99	21.12	22.50	1.374	-	-	0.05	0.093	0.128
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	19mm	Ant 4	DSI 4	518598	2592.99	21.12	22.50	1.374	-	-	0.03	0.110	0.151
3500MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 6	42590	3500	21.18	21.50	1.076	62.9	1.006	0.03	1.420	1.538
	LTE Band 42	20M	QPSK	50	0	-	Back	0mm	Ant 3	DSI 6	42590	3500	19.15	20.50	1.365	62.9	1.006	0.01	1.180	1.620
	LTE Band 42	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 4	42590	3500	21.18	21.50	1.076	62.9	1.006	0.09	2.040	2.209
88	LTE Band 42	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 4	42190	3460	20.91	21.50	1.146	62.9	1.006	0.06	2.140	2.466
	LTE Band 42	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 4	42990	3540	21.10	21.50	1.096	62.9	1.006	-0.05	1.970	2.173
	LTE Band 42	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 4	42590	3500	19.15	20.50	1.365	62.9	1.006	0.03	1.750	2.402
	LTE Band 42	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 4	42190	3460	19.09	20.50	1.384	62.9	1.006	0.01	1.770	2.464
	LTE Band 42	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 4	42990	3540	19.07	20.50	1.390	62.9	1.006	0.02	1.710	2.391
	LTE Band 42	20M	QPSK	100	0	-	Left Side	0mm	Ant 3	DSI 4	42590	3500	19.05	20.50	1.396	62.9	1.006	0.01	1.700	2.388
	LTE Band 42C	20M	QPSK	1	99	-	Left Side	0mm	Ant 3	DSI 4	42190+ 42388	3460+ 3479.8	20.81	21.50	1.172	62.9	1.006	0.06	2.080	2.453
	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI 6	42590	3500	19.61	20.00	1.094	62.9	1.006	-0.02	1.830	2.014
	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI 6	42190	3460	19.24	20.00	1.191	62.9	1.006	0.03	1.660	1.989
	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI 6	42990	3540	19.41	20.00	1.146	62.9	1.006	0.07	1.710	1.971
	LTE Band 42	20M	QPSK	50	0	-	Back	0mm	Ant 8	DSI 6	42590	3500	17.61	19.00	1.377	62.9	1.006	0.05	1.440	1.995
	LTE Band 42	20M	QPSK	100	0	-	Back	0mm	Ant 8	DSI 6	42590	3500	17.50	19.00	1.413	62.9	1.006	0.01	1.410	2.004
	LTE Band 42C	20M	QPSK	1	99	-	Back	0mm	Ant 8	DSI 6	42590+ 42788	3500+ 3519.8	19.54	20.00	1.112	62.9	1.006	-0.02	1.800	2.013
89	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI 6	55830	3609	18.32	20.00	1.472	62.9	1.006	0.01	1.760	2.607
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI 6	56150	3641	18.21	20.00	1.510	62.9	1.006	0.06	1.710	2.598
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI 6	55340	3560	18.10	20.00	1.549	62.9	1.006	0.04	1.660	2.586
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI 6	56640	3690	18.16	20.00	1.528	62.9	1.006	0.02	1.650	2.536
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 8	DSI 6	55830	3609	17.62	19.00	1.374	62.9	1.006	-0.03	1.530	2.115
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 8	DSI 6	56150	3641	17.49	19.00	1.416	62.9	1.006	-0.03	1.520	2.165
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 8	DSI 6	55340	3560	17.54	19.00	1.400	62.9	1.006	-0.03	1.490	2.098
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 8	DSI 6	56640	3690	17.48	19.00	1.419	62.9	1.006	-0.03	1.480	2.113
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 8	DSI 6	55830	3609	17.57	19.00	1.390	62.9	1.006	0.05	1.500	2.097
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 6	656000	3840	22.81	24.00	1.315	-	-	-0.02	0.799	1.051
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 6	656000	3840	22.78	24.00	1.324	-	-	0.03	0.719	0.952
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSI 4	656000	3840	22.81	24.00	1.315	-	-	0.08	1.150	1.513
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSI 4	656000	3840	22.78	24.00	1.324	-	-	0.09	1.230	1.629
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSI 4	656000	3840	25.77	27.00	1.327	50	1.000	0.01	1.290	1.712
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	656000	3840	23.65	24.00	1.084	-	-	-0.02	0.643	0.697
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	656000	3840	23.58	24.00	1.102	-	-	0.03	0.711	0.783
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 7	DSI 6	656000	3840	23.65	24.00	1.084	-	-	0.02	1.860	2.016
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 7	DSI 6	656000	3840	23.58	24.00	1.102	-	-	0.02	1.890	2.082
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 7	DSI 6	656000	3840	23.45	24.00	1.135	-	-	0.04	1.900	2.157
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 7	DSI 6	656000	3840	23.65	24.00	1.084	-	-	0.07	1.460	1.583
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 7	DSI 6	656000	3840	23.58	24.00	1.102	-	-	0.08	1.520	1.674
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 6	656000	3840	20.99	22.50	1.416	-	-	0.09	1.840	2.605
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 6	656000	3840	20.94	22.50	1.432	-	-	-0.01	1.860	2.664
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 6	656000	3840	20.85	22.50	1.462	-	-	0.05	1.810	2.647
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 8	DSI 6	656000	3840	24.29	25.50	1.321	50	1.000	0.01	1.940	2.563
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	9mm	Ant 8	DSI 4	656000	3840	23.25	24.00	1.189	-	-	-0.01	0.785	0.933



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	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 9	DSI 4	656000	3840	20.62	21.50	1.225	-	-	0.07	0.750	0.918
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 9	DSI 4	656000	3840	20.61	21.50	1.227	-	-	-0.02	0.742	0.911
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 9	DSI 4	656000	3840	20.62	21.50	1.225	-	-	0.04	1.000	1.225
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 9	DSI 4	656000	3840	20.61	21.50	1.227	-	-	0.03	1.040	1.277
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 9	DSI 4	656000	3840	20.62	21.50	1.225	-	-	0.02	2.130	2.608
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	DSI 4	656000	3840	20.61	21.50	1.227	-	-	0.04	2.090	2.565
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 9	DSI 4	656000	3840	20.60	21.50	1.230	-	-	0.01	1.950	2.399
90	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	DSI 4	656000	3840	23.90	24.50	1.148	50	1.000	0.04	2.350	2.698

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
WIFI/BT																
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 4+6	Full Power	1	2412	23.84	25.50	1.466	97.86	1.022	0.06	0.889	1.332
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 4+6	Full Power	1	2412	23.84	25.50	1.466	97.86	1.022	0.05	1.820	2.726
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 4+6	Full Power	11	2462	22.27	23.50	1.327	97.86	1.022	0.09	1.460	1.981
91	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 4+6	Full Power	1	2412	23.84	25.50	1.466	97.86	1.022	-0.14	2.130	3.190
	WLAN2.4GHz	802.11g 6Mbps	Top Side	0mm	Ant 4+6	Full Power	6	2437	22.64	24.00	1.368	99.45	1.006	0.03	2.050	2.821
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 4+6	Full Power	6	2437	21.72	23.00	1.343	97.86	1.022	0.02	1.520	2.086
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 4+6	Full Power	11	2462	22.27	23.50	1.327	97.86	1.022	0.03	1.660	2.252
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 4+6	DBS Only	1	2412	22.82	24.50	1.472	97.86	1.022	0.01	1.160	1.745
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 4+6	WWAN+ non DBS	1	2412	19.81	21.50	1.476	97.86	1.022	0.03	0.510	0.769
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 4+6	WWAN+DBS	1	2412	16.29	18.00	1.483	97.86	1.022	0.01	0.235	0.356
	WLAN5.2GHz	802.11a 6Mbps	Front	0mm	Ant 5+7	Full Power	40	5200	21.68	23.00	1.355	99.25	1.008	0.06	0.628	0.858
	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 5+7	Full Power	40	5200	21.68	23.00	1.355	99.25	1.008	-0.02	0.502	0.686
	WLAN5.2GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+7	Full Power	40	5200	21.68	23.00	1.355	99.25	1.008	0.03	0.128	0.175
92	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+7	Full Power	40	5200	21.68	23.00	1.355	99.25	1.008	-0.03	1.270	1.735
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+7	DBS Only	46	5230	20.70	22.00	1.349	100	1.000	0.06	1.210	1.632
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+7	WWAN+non DBS	42	5210	16.18	17.00	1.208	100	1.000	0.01	0.618	0.746
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+7	WWAN+DBS	42	5210	14.15	15.00	1.216	100	1.000	0.08	0.269	0.327
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+7	Full Power	54	5270	21.28	23.00	1.486	100	1.000	0.09	0.409	0.608
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+7	Full Power	54	5270	21.28	23.00	1.486	100	1.000	-0.02	0.339	0.504
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 5+7	Full Power	54	5270	21.28	23.00	1.486	100	1.000	0.04	0.028	0.042
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+7	Full Power	54	5270	21.28	23.00	1.486	100	1.000	0.04	0.996	1.480
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+7	Full Power	54	5270	21.28	23.00	1.486	100	1.000	-0.02	0.725	1.077
93	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+7	DBS Only	58	5290	21.30	22.00	1.175	100	1.000	0.03	1.320	1.551
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+7	WWAN+non DBS	58	5290	16.33	17.00	1.167	100	1.000	0.01	0.577	0.673
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+7	WWAN+DBS	58	5290	14.34	15.00	1.164	100	1.000	-0.02	0.293	0.341
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 5+7	Full Power	140	5700	21.55	23.00	1.396	99.25	1.008	0.04	0.615	0.866
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 5+7	Full Power	140	5700	21.55	23.00	1.396	99.25	1.008	0.03	0.503	0.708
	WLAN5.5GHz	802.11a 6Mbps	Left Side	0mm	Ant 5+7	Full Power	140	5700	21.55	23.00	1.396	99.25	1.008	-0.01	0.040	0.056
94	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+7	Full Power	140	5700	21.55	23.00	1.396	99.25	1.008	0.07	1.350	1.900
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+7	Full Power	140	5700	21.55	23.00	1.396	99.25	1.008	0.06	0.987	1.389
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+7	DBS Only	122	5610	21.67	22.50	1.211	100	1.000	0.06	1.330	1.610
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+7	WWAN+non DBS	122	5610	18.16	19.00	1.213	100	1.000	0.01	0.626	0.760
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+7	WWAN+DBS	122	5610	14.18	15.00	1.208	100	1.000	0.09	0.267	0.322
	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 5+7	Full Power	165	5825	22.53	24.00	1.403	99.25	1.008	0.06	0.731	1.034
95	WLAN5.8GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+7	Full Power	165	5825	22.53	24.00	1.403	99.25	1.008	-0.01	1.880	2.658
	WLAN5.8GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+7	Full Power	149	5745	22.49	24.00	1.416	99.25	1.008	0.03	1.720	2.455
	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+7	Full Power	165	5825	22.53	24.00	1.403	99.25	1.008	0.04	1.310	1.852
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+7	DBS Only	155	5775	20.99	22.00	1.262	100	1.000	0.03	1.300	1.640
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+7	WWAN+non DBS	155	5775	17.49	18.50	1.262	100	1.000	-0.05	0.586	0.739
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+7	WWAN+DBS	155	5775	14.47	15.50	1.268	100	1.000	0.01	0.268	0.340



16.5 Repeated SAR Measurement

<1g>

No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	GSM850					GPRS (3 Tx slots)	Back	5mm	Ant 1	DSI 3	251	848.8	28.15	29.00	1.216		1.000	-0.09	0.964	1	1.172
2st	GSM850					GPRS (3 Tx slots)	Back	5mm	Ant 1	DSI 3	251	848.8	28.15	29.00	1.216		1.000	0.06	0.950	1.015	1.155
1st	WCDMA IV					RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	1513	1752.6	21.82	22.80	1.253		1.000	-0.07	1.000	1	1.253
2st	WCDMA IV					RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	1513	1752.6	21.82	22.80	1.253		1.000	0.06	0.995	1.005	1.247
1st	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 2	DSI 3	512	1850.2	21.72	22.50	1.197	-	1.000	0.07	1.050	1	1.257
2st	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 2	DSI 3	512	1850.2	21.72	22.50	1.197	-	1.000	0.03	1.030	1.019	1.233
1st	LTE Band 41	20M	QPSK	50	0		Back	5mm	Ant 0	DSI 3	41490	2680	20.98	21.60	1.153	62.9	1.006	0.01	1.080	1	1.253
2st	LTE Band 41	20M	QPSK	50	0		Back	5mm	Ant 0	DSI 3	41490	2680	20.98	21.60	1.153	62.9	1.006	0.03	1.060	1.019	1.230
1st	LTE Band 42	20M	QPSK	1	0		Back	5mm	Ant 8	DSI 3	42990	3540	16.52	17.40	1.225	62.9	1.006	0.01	1.020	1	1.257
2st	LTE Band 42	20M	QPSK	1	0		Back	5mm	Ant 8	DSI 3	42990	3540	16.52	17.40	1.225	62.9	1.006	0.03	1.000	1.020	1.232
1st	LTE Band 48	20M	QPSK	1	0		Back	5mm	Ant 8	DSI 3	56150	3641	18.36	19.10	1.186	62.9	1.006	0.01	1.050	1	1.253
2st	LTE Band 48	20M	QPSK	1	0		Back	5mm	Ant 8	DSI 3	56150	3641	18.36	19.10	1.186	62.9	1.006	0.06	1.030	1.019	1.229
1st	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI 3	656000	3840	23.72	24.50	1.197	50	1.000	0.11	0.981	1	1.174
2st	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI 3	656000	3840	23.72	24.50	1.197	50	1.000	0.11	0.955	1.027	1.143
1st	WLAN2.4GHz					802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	standalone	11	2462	20.73	22.50	1.503	97.86	1.022	0.04	0.929	1	1.427
2st	WLAN2.4GHz					802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	standalone	11	2462	20.73	22.50	1.503	97.86	1.022	0.06	0.915	1.015	1.406
1st	WLAN5.3GHz					802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	standalone	58	5290	19.32	20.00	1.169	100	1.000	-0.03	0.984	1	1.151
2st	WLAN5.3GHz					802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	standalone	58	5290	19.32	20.00	1.169	100	1.000	0.09	0.970	1.014	1.134
1st	WLAN5.5GHz					802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	standalone	122	5610	20.15	21.00	1.216	100	1.000	-0.11	0.939	1	1.142
2st	WLAN5.5GHz					802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	standalone	122	5610	20.15	21.00	1.216	100	1.000	0.01	0.911	1.031	1.108
1st	WLAN5.8GHz					802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	standalone	155	5775	20.01	21.00	1.256	100	1.000	0.08	0.891	1	1.119
2st	WLAN5.8GHz					802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+7	standalone	155	5775	20.01	21.00	1.256	100	1.000	0.01	0.855	1.042	1.074

<10g>

No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	0mm	Ant 1	DSI 6	189	836.4	28.03	29.00	1.250	-	1.000	0.05	2.080	1	2.601
2st	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	0mm	Ant 1	DSI 6	189	836.4	28.03	29.00	1.250	-	1.000	0.04	2.060	1.010	2.576
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	1513	1752.6	20.84	21.80	1.247	-	1.000	-0.05	2.210	1	2.757
2st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	1513	1752.6	20.84	21.80	1.247	-	1.000	0.03	2.190	1.009	2.732
1st	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	26140	1860	20.97	21.80	1.211	-	1.000	0.05	2.250	1	2.724
2st	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	26140	1860	20.97	21.8	1.211	-	1.000	0.03	2.230	1.009	2.700
1st	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	39750	2506	21.44	22.30	1.219	62.9	1.006	0.06	2.230	1	2.735
2st	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	39750	2506	21.44	22.30	1.219	62.9	1.006	0.06	2.210	1.009	2.710
1st	LTE Band 42	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 4	42190	3460	20.91	21.50	1.146	62.9	1.006	0.06	2.140	1	2.466
2st	LTE Band 42	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 4	42190	3460	20.91	21.50	1.146	62.9	1.006	0.02	2.120	1.009	2.443
1st	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	DSI 4	656000	3840	23.90	24.50	1.148	50	1.000	0.04	2.350	1	2.698
2st	FR1 n77 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	DSI 4	656000	3840	23.90	24.50	1.148	50	1.000	0.01	2.140	1.098	2.457
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Top Side	0mm	Ant 4+6	Full Power	1	2412	23.84	25.50	1.466	97.86	1.022	-0.14	2.130	1	3.190
2st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Top Side	0mm	Ant 4+6	Full Power	1	2412	23.84	25.50	1.466	97.86	1.022	0.06	2.110	1.009	3.160

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8W/kg$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45W/kg$, only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4. The ratio is the difference in percentage between original and repeated *measured SAR*.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16.6 TDD LTE and NR Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41/5G NR n77 . The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

LTE Band 41(HPUE) Ant 0-Linearity Data for Head			LTE Band 41(HPUE) Ant 1-Linearity Data for Head		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	24.50	Maximum Tune up Power (dBm)	18.90	20.50
Reported 1g SAR (W/kg)	0.091	0.088	Reported 1g SAR (W/kg)	1.211	1.252
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	122.04	Frame Averaged (mW)	49.14	48.58
Linearity SAR (W/kg)	0.088		Linearity SAR (W/kg)	1.197	
% deviation from expected linearity		0.08%	% deviation from expected linearity		4.56%
LTE Band 41(HPUE) Ant 0-Linearity Data for Hotspot			LTE Band 41(HPUE) Ant 1-Linearity Data for Hotspot		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	21.60	23.20	Maximum Tune up Power (dBm)	17.20	18.80
Reported 1g SAR (W/kg)	1.253	1.251	Reported 1g SAR (W/kg)	0.982	1.019
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	91.50	90.47	Frame Averaged (mW)	33.22	32.85
Linearity SAR (W/kg)	1.239		Linearity SAR (W/kg)	0.971	
% deviation from expected linearity		0.98%	% deviation from expected linearity		4.95%
LTE Band 41(HPUE) Ant 0-Linearity Data for Body-worn			LTE Band 41(HPUE) Ant 1-Linearity Data for Body-worn		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	21.60	23.20	Maximum Tune up Power (dBm)	21.20	22.80
Reported 1g SAR (W/kg)	1.253	1.159	Reported 1g SAR (W/kg)	1.248	1.114
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	91.50	90.47	Frame Averaged (mW)	83.45	82.51
Linearity SAR (W/kg)	1.239		Linearity SAR (W/kg)	1.234	
% deviation from expected linearity		-6.45%	% deviation from expected linearity		-9.72%
LTE Band 41(HPUE) Ant 0-Linearity Data for Extremity SAR			LTE Band 41(HPUE) Ant 1-Linearity Data for Extremity SAR		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	23.60	Maximum Tune up Power (dBm)	22.00	23.90
Reported 10g SAR (W/kg)	2.685	2.736	Reported 10g SAR (W/kg)	2.793	2.922
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	100.32	99.19	Frame Averaged (mW)	100.32	106.29
Linearity SAR (W/kg)	2.655		Linearity SAR (W/kg)	2.959	
% deviation from expected linearity		3.06%	% deviation from expected linearity		-1.25%



LTE Band 41(HPUE) Ant 2-Linearity Data for Head			LTE Band 41(HPUE) Ant 4-Linearity Data for Head		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	25.50	Maximum Tune up Power (dBm)	19.50	21.10
Reported 1g SAR (W/kg)	0.321	0.407	Reported 1g SAR (W/kg)	1.140	1.128
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	153.63	Frame Averaged (mW)	56.42	55.78
Linearity SAR (W/kg)	0.390		Linearity SAR (W/kg)	1.127	
% deviation from expected linearity		4.23%	% deviation from expected linearity		0.07%
LTE Band 41(HPUE) Ant 2-Linearity Data for Hotspot			LTE Band 41(HPUE) Ant 4-Linearity Data for Hotspot		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	25.10	Maximum Tune up Power (dBm)	18.00	19.60
Reported 1g SAR (W/kg)	1.143	1.195	Reported 1g SAR (W/kg)	0.992	0.954
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	140.12	Frame Averaged (mW)	39.94	39.49
Linearity SAR (W/kg)	1.130		Linearity SAR (W/kg)	0.981	
% deviation from expected linearity		5.74%	% deviation from expected linearity		-2.74%
LTE Band 41(HPUE) Ant 2-Linearity Data for Body-worn			LTE Band 41(HPUE) Ant 4-Linearity Data for Body-worn		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	25.10	Maximum Tune up Power (dBm)	20.00	21.50
Reported 1g SAR (W/kg)	1.060	1.135	Reported 1g SAR (W/kg)	0.888	0.800
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	140.12	Frame Averaged (mW)	63.30	61.16
Linearity SAR (W/kg)	1.048		Linearity SAR (W/kg)	0.858	
% deviation from expected linearity		8.29%	% deviation from expected linearity		-6.76%
LTE Band 41(HPUE) Ant 2-Linearity Data for Extremity SAR			LTE Band 41(HPUE) Ant 4-Linearity Data for Extremity SAR		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.40	25.00	Maximum Tune up Power (dBm)	20.00	21.50
Reported 10g SAR (W/kg)	2.638	2.495	Reported 10g SAR (W/kg)	2.167	2.263
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	138.49	136.93	Frame Averaged (mW)	63.30	61.16
Linearity SAR (W/kg)	2.608		Linearity SAR (W/kg)	2.094	
% deviation from expected linearity		-4.34%	% deviation from expected linearity		8.08%

5G NR n 77(HPUE) Ant 3-Linearity Data for Head			5G NR n 77(HPUE) Ant 8-Linearity Data for Head		
	5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)		5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)
Maximum Tune up Power (dBm)	22.50	25.50	Maximum Tune up Power (dBm)	24.00	26.50
Reported 1g SAR (W/kg)	1.233	1.259	Reported 1g SAR (W/kg)	0.246	0.233
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	177.83	177.41	Frame Averaged (mW)	251.19	223.34
Linearity SAR (W/kg)	1.230		Linearity SAR (W/kg)	0.219	
% deviation from expected linearity		2.35%	% deviation from expected linearity		6.52%
5G NR n77(HPUE) Ant 3-Linearity Data for Hotspot			5G NR n77(HPUE) Ant 8-Linearity Data for Hotspot		
	5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)		5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)
Maximum Tune up Power (dBm)	21.80	24.80	Maximum Tune up Power (dBm)	15.20	18.20
Reported 1g SAR (W/kg)	0.723	0.758	Reported 1g SAR (W/kg)	1.182	1.186
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	151.36	151.00	Frame Averaged (mW)	33.11	33.03
Linearity SAR (W/kg)	0.721		Linearity SAR (W/kg)	1.179	
% deviation from expected linearity		5.09%	% deviation from expected linearity		0.58%
5G NR n77(HPUE) Ant 3-Linearity Data for Body-worn			5G NR n77(HPUE) Ant 8-Linearity Data for Body-worn		
	5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)		5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)
Maximum Tune up Power (dBm)	23.10	26.10	Maximum Tune up Power (dBm)	16.20	19.20
Reported 1g SAR (W/kg)	1.111	1.207	Reported 1g SAR (W/kg)	1.180	1.231
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	204.17	203.69	Frame Averaged (mW)	41.69	41.59
Linearity SAR (W/kg)	1.108		Linearity SAR (W/kg)	1.177	
% deviation from expected linearity		8.90%	% deviation from expected linearity		4.57%
5G NR n77(HPUE) Ant 3-Linearity Data for Extremity SAR			5G NR n77(HPUE) Ant 8-Linearity Data for Extremity SAR		
	5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)		5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	22.50	25.50
Reported 10g SAR (W/kg)	1.629	1.712	Reported 10g SAR (W/kg)	2.664	2.563
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	177.83	177.41
Linearity SAR (W/kg)	1.625		Linearity SAR (W/kg)	2.658	
% deviation from expected linearity		5.34%	% deviation from expected linearity		-3.56%



5G NR n 77(HPUE) Ant 9-Linearity Data for Head		
	5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.218	0.236
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.217	
% deviation from expected linearity		8.51%
5G NR n77(HPUE) Ant 9-Linearity Data for Hotspot		
	5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)
Maximum Tune up Power (dBm)	17.90	20.90
Reported 1g SAR (W/kg)	1.020	1.021
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	61.66	61.51
Linearity SAR (W/kg)	1.018	
% deviation from expected linearity		0.34%
5G NR n77(HPUE) Ant 9-Linearity Data for Body-worn		
	5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)
Maximum Tune up Power (dBm)	21.50	24.50
Reported 1g SAR (W/kg)	1.165	1.174
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	1.162	
% deviation from expected linearity		1.01%
5G NR n77(HPUE) Ant 9-Linearity Data for Extremity SAR		
	5G NR n 77 (Power Class 3)	5G NR n 77 (Power Class 2)
Maximum Tune up Power (dBm)	21.50	24.50
Reported 10g SAR (W/kg)	2.608	2.698
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	2.602	
% deviation from expected linearity		3.70%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + WLAN6GHz	Yes	Yes	Yes	Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
6.	WLAN2.4GHz + WLAN6GHz	Yes	Yes	Yes	Yes
7.	WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
8.	WLAN6GHz+ Bluetooth	Yes	Yes	Yes	Yes
9.	WWAN + WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
10.	WWAN + WLAN2.4GHz + WLAN6GHz	Yes	Yes	Yes	Yes
11.	WWAN + WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
12.	WWAN + WLAN6GHz+ Bluetooth	Yes	Yes	Yes	Yes

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands.
3. The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
4. EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
5. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
6. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
7. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only). WIFI 6E has no hotspot function.
8. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
9. WLAN 2.4GHz and Bluetooth share the same antenna, and they cannot transmit simultaneously each other.
10. According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
11. According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
12. According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
13. The maximum SAR summation is calculated based on the same configuration and test position.
14. For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
15. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - v) The SPLSR calculated results please refer to section 17.6.

17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR (i.e. SAR exposure for 5G FR1), and $B \leq 1.0$.

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

if $A + C \leq 1.0$ and $B + C \leq 1.0$ can be proven, then " $x\% * A + (100-x)\% * B + C \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1

Above analysis is also apply to LTE inter-band uplink, LTE1 + LTE2 + WLAN + BT simultaneous transmission, So inter-band uplink CA no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of LTE + WLAN + BT < 1.

Above analysis is also apply to NR band UL MIMO, NR1 + NR2 + WLAN + BT simultaneous transmission, So UL MIMO no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of NR + WLAN + BT < 1.

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17.2 Head Exposure Conditions

Table with columns for WWAN Band, Exposure Position, and SAR values (1g SAR (W/kg)) for various frequencies and antenna configurations. Includes rows for GSM850, GSM1900, WCDMA, and LTE bands across different antenna types and exposure positions.



FCC SAR Test Report

Report No. : FA282619

13 Ant 0	Right Tilted	0.102	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.45	0.54	0.50	0.24	0.20	1.51	0.84	0.43	0.32
	Left Cheek	0.222	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.57	0.76	0.68	0.58	0.51	1.51	0.96	0.55	0.56
	Left Tilted	0.141	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.49	0.64	0.58	0.46	0.41	1.51	0.97	0.47	0.49
LTE Band 13 Ant 1	Right Cheek	0.720	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.07	1.18	1.13	0.87	0.83	1.51	0.84	1.05	0.94
	Right Tilted	0.522	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.87	0.96	0.92	0.66	0.62	1.51	0.84	0.85	0.74
	Left Cheek	0.309	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.66	0.84	0.77	0.67	0.59	1.51	0.96	0.64	0.65
LTE Band 26 Ant 0	Left Tilted	0.155	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.50	0.65	0.60	0.48	0.42	1.51	0.97	0.48	0.50
	Right Cheek	0.161	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.51	0.62	0.58	0.32	0.27	1.51	0.84	0.49	0.38
	Right Tilted	0.100	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.45	0.54	0.50	0.24	0.20	1.51	0.84	0.43	0.32
LTE Band 26 Ant 1	Left Cheek	0.222	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.57	0.76	0.68	0.58	0.51	1.51	0.96	0.55	0.56
	Left Tilted	0.129	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.48	0.63	0.57	0.45	0.40	1.51	0.97	0.46	0.48
	Right Cheek	0.836	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.19	1.29	1.25	0.99	0.95	1.51	0.84	1.16	1.05
LTE Band 26 Ant 1	Right Tilted	0.726	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.08	1.17	1.12	0.87	0.82	1.51	0.84	1.05	0.95
	Left Cheek	0.382	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.73	0.92	0.84	0.74	0.67	1.51	0.96	0.71	0.72
	Left Tilted	0.413	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.76	0.91	0.85	0.74	0.68	1.51	0.97	0.74	0.76
LTE Band 66 Ant 1	Right Cheek	1.012	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.36	1.47	1.43	1.17	1.12	1.51	0.84	1.34	1.23
	Right Tilted	1.012	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.36	1.45	1.41	1.15	1.11	1.51	0.84	1.34	1.23
	Left Cheek	1.012	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.36	1.55	1.47	1.37	1.30	1.51	0.96	1.34	1.35
LTE Band 66 Ant 2	Left Tilted	1.012	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.36	1.51	1.45	1.33	1.28	1.51	0.97	1.34	1.36
	Right Cheek	0.080	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.43	0.54	0.49	0.23	0.19	1.51	0.84	0.41	0.30
	Right Tilted	0.084	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.43	0.53	0.48	0.23	0.18	1.51	0.84	0.41	0.30
LTE Band 25 Ant 1	Left Cheek	0.129	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.48	0.66	0.59	0.49	0.41	1.51	0.96	0.46	0.47
	Left Tilted	0.079	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.43	0.58	0.52	0.40	0.35	1.51	0.97	0.41	0.43
	Right Cheek	0.940	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.29	1.40	1.35	1.09	1.05	1.51	0.84	1.27	1.16
LTE Band 25 Ant 2	Right Tilted	0.940	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.29	1.38	1.34	1.08	1.04	1.51	0.84	1.27	1.16
	Left Cheek	0.940	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.29	1.48	1.40	1.30	1.22	1.51	0.96	1.27	1.28
	Left Tilted	0.940	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.29	1.44	1.38	1.26	1.21	1.51	0.97	1.27	1.29
LTE Band 7 Ant 1	Right Cheek	0.133	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.48	0.59	0.55	0.29	0.24	1.51	0.84	0.46	0.35
	Right Tilted	0.140	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.49	0.58	0.54	0.28	0.24	1.51	0.84	0.47	0.36
	Left Cheek	0.162	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.51	0.70	0.62	0.52	0.45	1.51	0.96	0.49	0.50
LTE Band 7 Ant 2	Left Tilted	0.134	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.48	0.63	0.58	0.46	0.40	1.51	0.97	0.46	0.48
	Right Cheek	1.082	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.43	1.54	1.50	1.24	1.19	1.51	0.84	1.41	1.30
	Right Tilted	1.082	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.43	1.52	1.48	1.22	1.18	1.51	0.84	1.41	1.30
LTE Band 41 Ant 1	Left Cheek	0.724	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.07	1.26	1.19	1.08	1.01	1.51	0.96	1.05	1.07
	Left Tilted	1.082	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.43	1.58	1.52	1.40	1.35	1.51	0.97	1.41	1.43
	Right Cheek	0.544	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.89	1.00	0.96	0.70	0.65	1.51	0.84	0.87	0.76
LTE Band 41 Ant 2	Right Tilted	0.225	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.57	0.67	0.62	0.37	0.32	1.51	0.84	0.55	0.44
	Left Cheek	0.237	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.59	0.77	0.70	0.59	0.52	1.51	0.96	0.56	0.58
	Left Tilted	0.186	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.54	0.68	0.63	0.51	0.45	1.51	0.97	0.51	0.53
LTE Band 41 Ant 0	Right Cheek	0.988	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.34	1.45	1.40	1.14	1.10	1.51	0.84	1.31	1.20
	Right Tilted	0.988	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.34	1.43	1.39	1.13	1.08	1.51	0.84	1.31	1.21
	Left Cheek	0.988	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.34	1.52	1.45	1.35	1.27	1.51	0.96	1.31	1.33
LTE Band 41 Ant 4	Left Tilted	0.988	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.34	1.48	1.43	1.31	1.26	1.51	0.97	1.31	1.33
	Right Cheek	0.407	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.76	0.87	0.82	0.56	0.52	1.51	0.84	0.73	0.62
	Right Tilted	0.069	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.42	0.51	0.47	0.21	0.17	1.51	0.84	0.40	0.29
LTE Band 41 Ant 0	Left Cheek	0.090	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.44	0.63	0.55	0.45	0.37	1.51	0.96	0.42	0.43
	Left Tilted	0.042	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.39	0.54	0.48	0.36	0.31	1.51	0.97	0.37	0.39
	Right Cheek	0.011	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.36	0.47	0.43	0.17	0.12	1.51	0.84	0.34	0.23
LTE Band 41 Ant 4	Right Tilted	0.033	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.38	0.48	0.43	0.17	0.13	1.51	0.84	0.36	0.25
	Left Cheek	0.091	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.44	0.63	0.55	0.45	0.38	1.51	0.96	0.42	0.43
	Left Tilted	0.007	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.36	0.50	0.45	0.33	0.27	1.51	0.97	0.33	0.35
LTE Band 41 Ant 4	Right Cheek	0.998	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.35	1.46	1.41	1.15	1.11	1.51	0.84	1.32	1.21
	Right Tilted	0.998	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.35	1.44	1.40	1.14	1.09	1.51	0.84	1.32	1.22
	Left Cheek	0.998	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.35	1.53	1.46	1.36	1.28	1.51	0.96	1.32	1.34
LTE Band	Left Tilted	0.998	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.35	1.49	1.44	1.32	1.27	1.51	0.97	1.32	1.34



42 Ant 3	Right Tilted	0.382	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.73	0.82	0.78	0.52	0.48	1.51	0.84	0.71	0.60
	Left Cheek	0.247	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.60	0.78	0.71	0.60	0.53	1.51	0.96	0.57	0.59
	Left Tilted	0.158	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.51	0.65	0.60	0.48	0.43	1.51	0.97	0.48	0.50
LTE Band 48 Ant 3	Right Cheek	0.261	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.61	0.72	0.68	0.42	0.37	1.51	0.84	0.59	0.48
	Right Tilted	0.425	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.77	0.87	0.82	0.57	0.52	1.51	0.84	0.75	0.64
	Left Cheek	0.250	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.60	0.79	0.71	0.61	0.53	1.51	0.96	0.58	0.59
LTE Band 42 Ant 8	Left Tilted	0.345	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.69	0.84	0.79	0.67	0.61	1.51	0.97	0.67	0.69
	Right Cheek	0.321	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.67	0.78	0.74	0.48	0.43	1.51	0.84	0.65	0.54
	Right Tilted	0.456	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.81	0.90	0.85	0.60	0.55	1.51	0.84	0.78	0.68
LTE Band 48 Ant 8	Left Cheek	0.198	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.55	0.73	0.66	0.56	0.48	1.51	0.96	0.52	0.54
	Left Tilted	0.316	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.67	0.81	0.76	0.64	0.58	1.51	0.97	0.64	0.66
	Right Cheek	0.245	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.59	0.70	0.66	0.40	0.36	1.51	0.84	0.57	0.46
	Right Tilted	0.402	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.75	0.84	0.80	0.54	0.50	1.51	0.84	0.73	0.62
	Left Cheek	0.193	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.54	0.73	0.66	0.55	0.48	1.51	0.96	0.52	0.54
	Left Tilted	0.268	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.62	0.76	0.71	0.59	0.54	1.51	0.97	0.59	0.61

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	1+3	1+6+8	1+6+9	1+8+10	1+9+10	2+5	2+10	1+4+7	1+4+10	
		WWAN	WLAN2.4GHz Ant 4+6 DBS only	WLAN2.4GHz Ant 4+6 non DBS	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz z Ant 5+7 DBS only	WLAN5GHz z Ant 5+7 non DBS	WLAN5GHz z Ant 5+7 WWAN+DBS	Bluetooth Ant 4	Bluetooth Ant 6	WLAN6E Ant 5+7	Summe d	Summe d	Summe d	Summe d	Summe d	Summe d	Summe d	Summe d	Summe d	Summe d
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n5 Ant 0	Right Cheek	0.108	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.46	0.57	0.52	0.26	0.22	1.51	0.84	0.43	0.32	
	Right Tilted	0.066	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.42	0.51	0.46	0.21	0.16	1.51	0.84	0.39	0.29	
	Left Cheek	0.134	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.48	0.67	0.60	0.49	0.42	1.51	0.96	0.46	0.48	
	Left Tilted	0.084	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.43	0.58	0.53	0.41	0.35	1.51	0.97	0.41	0.43	
FR1 n6 Ant 1	Right Cheek	1.013	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.36	1.47	1.43	1.17	1.12	1.51	0.84	1.34	1.23	
	Right Tilted	1.013	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.36	1.46	1.41	1.15	1.11	1.51	0.84	1.34	1.23	
	Left Cheek	1.013	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.36	1.55	1.48	1.37	1.30	1.51	0.96	1.34	1.36	
	Left Tilted	1.013	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.36	1.51	1.45	1.34	1.28	1.51	0.97	1.34	1.36	
FR1 n2 Ant 1	Right Cheek	0.978	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.33	1.44	1.39	1.13	1.09	1.51	0.84	1.30	1.19	
	Right Tilted	0.978	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.33	1.42	1.38	1.12	1.07	1.51	0.84	1.30	1.20	
	Left Cheek	0.978	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.33	1.51	1.44	1.34	1.26	1.51	0.96	1.30	1.32	
	Left Tilted	0.978	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.33	1.47	1.42	1.30	1.25	1.51	0.97	1.30	1.32	
FR1 n7 Ant 1	Right Cheek	0.977	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.33	1.44	1.39	1.13	1.09	1.51	0.84	1.30	1.19	
	Right Tilted	0.977	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.33	1.42	1.37	1.12	1.07	1.51	0.84	1.30	1.20	
	Left Cheek	0.977	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.33	1.51	1.44	1.33	1.26	1.51	0.96	1.30	1.32	
	Left Tilted	0.977	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.33	1.47	1.42	1.30	1.24	1.51	0.97	1.30	1.32	
FR1 n7 Ant 2	Right Cheek	0.384	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.73	0.84	0.80	0.54	0.49	1.51	0.84	0.71	0.60	
	Right Tilted	0.156	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.51	0.60	0.55	0.30	0.25	1.51	0.84	0.48	0.38	
	Left Cheek	0.187	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.54	0.72	0.65	0.54	0.47	1.51	0.96	0.51	0.53	
	Left Tilted	0.105	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.45	0.60	0.55	0.43	0.37	1.51	0.97	0.43	0.45	
FR1 n41 Ant 1	Right Cheek	0.966	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.32	1.42	1.38	1.12	1.08	1.51	0.84	1.29	1.18	
	Right Tilted	0.966	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.32	1.41	1.36	1.11	1.06	1.51	0.84	1.29	1.19	
	Left Cheek	0.966	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.32	1.50	1.43	1.32	1.25	1.51	0.96	1.29	1.31	
	Left Tilted	0.966	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.32	1.46	1.41	1.29	1.23	1.51	0.97	1.29	1.31	
FR1 n41 Ant 2	Right Cheek	0.425	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.77	0.88	0.84	0.58	0.54	1.51	0.84	0.75	0.64	
	Right Tilted	0.185	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.53	0.63	0.58	0.33	0.28	1.51	0.84	0.51	0.40	
	Left Cheek	0.214	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.56	0.75	0.68	0.57	0.50	1.51	0.96	0.54	0.56	
	Left Tilted	0.134	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.48	0.63	0.58	0.46	0.40	1.51	0.97	0.46	0.48	
FR1 n41 Ant 0	Right Cheek	0.082	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.43	0.54	0.50	0.24	0.19	1.51	0.84	0.41	0.30	
	Right Tilted	0.089	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.44	0.53	0.49	0.23	0.19	1.51	0.84	0.42	0.31	
	Left Cheek	0.156	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.51	0.69	0.62	0.51	0.44	1.51	0.96	0.48	0.50	
	Left Tilted	0.060	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.41	0.56	0.50	0.38	0.33	1.51	0.97	0.39	0.41	
FR1 n41 Ant 4	Right Cheek	0.998	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.35	1.46	1.41	1.15	1.11	1.51	0.84	1.32	1.21	
	Right Tilted	0.998	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.35	1.44	1.40	1.14	1.09	1.51	0.84	1.32	1.22	
	Left Cheek	0.998	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.35	1.53	1.46	1.36	1.28	1.51	0.96	1.32	1.34	



	Left Tilted	0.998	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.35	1.49	1.44	1.32	1.27	1.51	0.97	1.32	1.34
FR1 n77 Ant 3	Right Cheek	0.931	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.28	1.39	1.35	1.09	1.04	1.51	0.84	1.26	1.15
	Right Tilted	0.931	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.28	1.37	1.33	1.07	1.03	1.51	0.84	1.26	1.15
	Left Cheek	0.931	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.28	1.47	1.39	1.29	1.22	1.51	0.96	1.26	1.27
	Left Tilted	0.931	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.28	1.43	1.37	1.25	1.20	1.51	0.97	1.26	1.28
FR1 n77 Ant 7	Right Cheek	0.985	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	1.33	1.44	1.40	1.14	1.10	1.51	0.84	1.31	1.20
	Right Tilted	0.985	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	1.33	1.43	1.38	1.13	1.08	1.51	0.84	1.31	1.20
	Left Cheek	0.985	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	1.33	1.52	1.45	1.34	1.27	1.51	0.96	1.31	1.33
	Left Tilted	0.985	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	1.33	1.48	1.43	1.31	1.25	1.51	0.97	1.31	1.33
FR1 n77 Ant 8	Right Cheek	0.208	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.56	0.67	0.62	0.36	0.32	1.51	0.84	0.53	0.42
	Right Tilted	0.246	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.60	0.69	0.64	0.39	0.34	1.51	0.84	0.57	0.47
	Left Cheek	0.058	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.41	0.59	0.52	0.42	0.34	1.51	0.96	0.38	0.40
	Left Tilted	0.094	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.44	0.59	0.54	0.42	0.36	1.51	0.97	0.42	0.44
FR1 n77 Ant 9	Right Cheek	0.236	0.776	0.349	0.155	0.734	0.365	0.171	0.093	0.049	0.061	0.59	0.69	0.65	0.39	0.35	1.51	0.84	0.56	0.45
	Right Tilted	0.064	0.776	0.349	0.155	0.734	0.365	0.171	0.077	0.032	0.064	0.41	0.51	0.46	0.21	0.16	1.51	0.84	0.39	0.28
	Left Cheek	0.128	0.776	0.349	0.155	0.734	0.365	0.171	0.170	0.097	0.187	0.48	0.66	0.59	0.49	0.41	1.51	0.96	0.45	0.47
	Left Tilted	0.167	0.776	0.349	0.155	0.734	0.365	0.171	0.131	0.076	0.191	0.52	0.66	0.61	0.49	0.43	1.51	0.97	0.49	0.51

17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2	1+4+6	1+4+7	1+3+5	Case No
		WWAN	WLAN2.4GHz Ant 4+6 non DBS	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+7 non DBS	WLAN5GHz Ant 5+7 WWAN+DBS	Bluetooth Ant 4	Bluetooth Ant 6	Summed	Summed	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850 Ant 0	Front	0.217	0.376	0.172	0.366	0.190	0.023	0.041	0.59	0.61	0.62	0.58	
	Back	0.392	0.376	0.172	0.366	0.190	0.017	0.038	0.77	0.78	0.80	0.75	
	Left side	0.263	0.376	0.172	0.366	0.190	0.002	0.002	0.64	0.63	0.63	0.63	
	Right side	0.111	0.376	0.172	0.366	0.190	0.039	0.173	0.49	0.52	0.65	0.47	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.306	0.376	0.172	0.366	0.190			0.68	0.67	0.67	0.67	
GSM850 Ant 1	Front	0.419	0.376	0.172	0.366	0.190	0.023	0.041	0.80	0.81	0.83	0.78	
	Back	0.730	0.376	0.172	0.366	0.190	0.017	0.038	1.11	1.11	1.13	1.09	
	Left side	0.428	0.376	0.172	0.366	0.190	0.002	0.002	0.80	0.80	0.80	0.79	
	Right side	0.096	0.376	0.172	0.366	0.190	0.039	0.173	0.47	0.50	0.64	0.46	
	Top side	0.920	0.376	0.172	0.366	0.190	0.021	0.021	1.30	1.31	1.31	1.28	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
GSM1900 Ant 1	Front	0.569	0.376	0.172	0.366	0.190	0.023	0.041	0.95	0.96	0.98	0.93	
	Back	0.936	0.376	0.172	0.366	0.190	0.017	0.038	1.31	1.32	1.34	1.30	
	Left side	0.961	0.376	0.172	0.366	0.190	0.002	0.002	1.34	1.33	1.33	1.32	
	Right side	0.060	0.376	0.172	0.366	0.190	0.039	0.173	0.44	0.47	0.60	0.42	
	Top side	0.888	0.376	0.172	0.366	0.190	0.021	0.021	1.26	1.28	1.28	1.25	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
GSM1900 Ant 2	Front	0.496	0.376	0.172	0.366	0.190	0.023	0.041	0.87	0.89	0.90	0.86	
	Back	0.711	0.376	0.172	0.366	0.190	0.017	0.038	1.09	1.09	1.12	1.07	
	Left side	0.094	0.376	0.172	0.366	0.190	0.002	0.002	0.47	0.46	0.46	0.46	
	Right side	0.277	0.376	0.172	0.366	0.190	0.039	0.173	0.65	0.68	0.82	0.64	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	1.257							1.26	1.26	1.26	1.26	
WCDMA II Ant 1	Front	0.554	0.376	0.172	0.366	0.190	0.023	0.041	0.93	0.94	0.96	0.92	
	Back	0.998	0.376	0.172	0.366	0.190	0.017	0.038	1.37	1.38	1.40	1.36	
	Left side	0.826	0.376	0.172	0.366	0.190	0.002	0.002	1.20	1.19	1.19	1.19	
	Right side	0.051	0.376	0.172	0.366	0.190	0.039	0.173	0.43	0.46	0.59	0.41	
	Top side	0.869	0.376	0.172	0.366	0.190	0.021	0.021	1.25	1.26	1.26	1.23	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	



WCDMA II Ant 2	Front	0.600	0.376	0.172	0.366	0.190	0.023	0.041	0.98	0.99	1.01	0.96	
	Back	0.873	0.376	0.172	0.366	0.190	0.017	0.038	1.25	1.26	1.28	1.24	
	Left side	0.118	0.376	0.172	0.366	0.190	0.002	0.002	0.49	0.49	0.49	0.48	
	Right side	0.363	0.376	0.172	0.366	0.190	0.039	0.173	0.74	0.77	0.90	0.73	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	1.248							1.25	1.25	1.25	1.25	
WCDMA IV Ant 1	Front	0.502	0.376	0.172	0.366	0.190	0.023	0.041	0.88	0.89	0.91	0.86	
	Back	0.897	0.376	0.172	0.366	0.190	0.017	0.038	1.27	1.28	1.30	1.26	
	Left side	0.612	0.376	0.172	0.366	0.190	0.002	0.002	0.99	0.98	0.98	0.97	
	Right side	0.031	0.376	0.172	0.366	0.190	0.039	0.173	0.41	0.44	0.57	0.39	
	Top side	0.533	0.376	0.172	0.366	0.190	0.021	0.021	0.91	0.92	0.92	0.90	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
WCDMA IV Ant 2	Front	0.563	0.376	0.172	0.366	0.190	0.023	0.041	0.94	0.95	0.97	0.93	
	Back	0.746	0.376	0.172	0.366	0.190	0.017	0.038	1.12	1.13	1.15	1.11	
	Left side	0.098	0.376	0.172	0.366	0.190	0.002	0.002	0.47	0.47	0.47	0.46	
	Right side	0.252	0.376	0.172	0.366	0.190	0.039	0.173	0.63	0.66	0.79	0.61	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	1.259							1.26	1.26	1.26	1.26	
WCDMA V Ant 0	Front	0.457	0.376	0.172	0.366	0.190	0.023	0.041	0.83	0.85	0.86	0.82	
	Back	0.765	0.376	0.172	0.366	0.190	0.017	0.038	1.14	1.15	1.17	1.13	
	Left side	0.509	0.376	0.172	0.366	0.190	0.002	0.002	0.89	0.88	0.88	0.87	
	Right side	0.193	0.376	0.172	0.366	0.190	0.039	0.173	0.57	0.60	0.73	0.56	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.590	0.376	0.172	0.366	0.190			0.97	0.96	0.96	0.95	
WCDMA V Ant 1	Front	0.575	0.376	0.172	0.366	0.190	0.023	0.041	0.95	0.96	0.98	0.94	
	Back	0.975	0.376	0.172	0.366	0.190	0.017	0.038	1.35	1.36	1.38	1.34	
	Left side	0.668	0.376	0.172	0.366	0.190	0.002	0.002	1.04	1.04	1.04	1.03	
	Right side	0.166	0.376	0.172	0.366	0.190	0.039	0.173	0.54	0.57	0.71	0.53	
	Top side	0.872	0.376	0.172	0.366	0.190	0.021	0.021	1.25	1.26	1.26	1.23	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
LTE Band 12 Ant 0	Front	0.377	0.376	0.172	0.366	0.190	0.023	0.041	0.75	0.77	0.78	0.74	
	Back	0.644	0.376	0.172	0.366	0.190	0.017	0.038	1.02	1.03	1.05	1.01	
	Left side	0.677	0.376	0.172	0.366	0.190	0.002	0.002	1.05	1.05	1.05	1.04	
	Right side	0.231	0.376	0.172	0.366	0.190	0.039	0.173	0.61	0.64	0.77	0.59	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.545	0.376	0.172	0.366	0.190			0.92	0.91	0.91	0.91	
LTE Band 12 Ant 1	Front	0.295	0.376	0.172	0.366	0.190	0.023	0.041	0.67	0.68	0.70	0.66	
	Back	0.601	0.376	0.172	0.366	0.190	0.017	0.038	0.98	0.98	1.01	0.96	
	Left side	0.453	0.376	0.172	0.366	0.190	0.002	0.002	0.83	0.82	0.82	0.82	
	Right side	0.115	0.376	0.172	0.366	0.190	0.039	0.173	0.49	0.52	0.65	0.48	
	Top side	0.628	0.376	0.172	0.366	0.190	0.021	0.021	1.00	1.02	1.02	0.99	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
LTE Band 13 Ant 0	Front	0.467	0.376	0.172	0.366	0.190	0.023	0.041	0.84	0.86	0.87	0.83	
	Back	0.790	0.376	0.172	0.366	0.190	0.017	0.038	1.17	1.17	1.19	1.15	
	Left side	0.665	0.376	0.172	0.366	0.190	0.002	0.002	1.04	1.03	1.03	1.03	
	Right side	0.220	0.376	0.172	0.366	0.190	0.039	0.173	0.60	0.63	0.76	0.58	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.718	0.376	0.172	0.366	0.190			1.09	1.08	1.08	1.08	
LTE Band 13 Ant 1	Front	0.477	0.376	0.172	0.366	0.190	0.023	0.041	0.85	0.87	0.88	0.84	
	Back	0.915	0.376	0.172	0.366	0.190	0.017	0.038	1.29	1.30	1.32	1.28	
	Left side	0.693	0.376	0.172	0.366	0.190	0.002	0.002	1.07	1.06	1.06	1.06	
	Right side	0.165	0.376	0.172	0.366	0.190	0.039	0.173	0.54	0.57	0.70	0.53	
	Top side	0.991	0.376	0.172	0.366	0.190	0.021	0.021	1.37	1.38	1.38	1.35	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
LTE Band 26 Ant 0	Front	0.423	0.376	0.172	0.366	0.190	0.023	0.041	0.80	0.81	0.83	0.79	
	Back	0.803	0.376	0.172	0.366	0.190	0.017	0.038	1.18	1.19	1.21	1.17	



	Left side	0.396	0.376	0.172	0.366	0.190	0.002	0.002	0.77	0.76	0.76	0.76	
	Right side	0.159	0.376	0.172	0.366	0.190	0.039	0.173	0.54	0.56	0.70	0.52	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.488	0.376	0.172	0.366	0.190			0.86	0.85	0.85	0.85	
LTE Band 26 Ant 1	Front	0.559	0.376	0.172	0.366	0.190	0.023	0.041	0.94	0.95	0.97	0.92	
	Back	0.989	0.376	0.172	0.366	0.190	0.017	0.038	1.37	1.37	1.39	1.35	
	Left side	0.547	0.376	0.172	0.366	0.190	0.002	0.002	0.92	0.92	0.92	0.91	
	Right side	0.186	0.376	0.172	0.366	0.190	0.039	0.173	0.56	0.59	0.73	0.55	
	Top side	0.964	0.376	0.172	0.366	0.190	0.021	0.021	1.34	1.35	1.35	1.33	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
LTE Band 66 Ant 1	Front	0.573	0.376	0.172	0.366	0.190	0.023	0.041	0.95	0.96	0.98	0.94	
	Back	0.940	0.376	0.172	0.366	0.190	0.017	0.038	1.32	1.32	1.34	1.30	
	Left side	0.778	0.376	0.172	0.366	0.190	0.002	0.002	1.15	1.15	1.15	1.14	
	Right side	0.025	0.376	0.172	0.366	0.190	0.039	0.173	0.40	0.43	0.56	0.39	
	Top side	0.617	0.376	0.172	0.366	0.190	0.021	0.021	0.99	1.00	1.00	0.98	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
LTE Band 66 Ant 2	Front	0.627	0.376	0.172	0.366	0.190	0.023	0.041	1.00	1.02	1.03	0.99	
	Back	0.791	0.376	0.172	0.366	0.190	0.017	0.038	1.17	1.17	1.20	1.15	
	Left side	0.132	0.376	0.172	0.366	0.190	0.002	0.002	0.51	0.50	0.50	0.49	
	Right side	0.297	0.376	0.172	0.366	0.190	0.039	0.173	0.67	0.70	0.84	0.66	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	1.253							1.25	1.25	1.25	1.25	
LTE Band 25 Ant 1	Front	0.493	0.376	0.172	0.366	0.190	0.023	0.041	0.87	0.88	0.90	0.86	
	Back	0.930	0.376	0.172	0.366	0.190	0.017	0.038	1.31	1.31	1.33	1.29	
	Left side	0.746	0.376	0.172	0.366	0.190	0.002	0.002	1.12	1.11	1.11	1.11	
	Right side	0.046	0.376	0.172	0.366	0.190	0.039	0.173	0.42	0.45	0.59	0.41	
	Top side	0.737	0.376	0.172	0.366	0.190	0.021	0.021	1.11	1.12	1.12	1.10	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
LTE Band 25 Ant 2	Front	0.631	0.376	0.172	0.366	0.190	0.023	0.041	1.01	1.02	1.04	0.99	
	Back	0.869	0.376	0.172	0.366	0.190	0.017	0.038	1.25	1.25	1.27	1.23	
	Left side	0.140	0.376	0.172	0.366	0.190	0.002	0.002	0.52	0.51	0.51	0.50	
	Right side	0.367	0.376	0.172	0.366	0.190	0.039	0.173	0.74	0.77	0.91	0.73	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	1.241							1.24	1.24	1.24	1.24	
LTE Band 7 Ant 1	Front	0.347	0.376	0.172	0.366	0.190	0.023	0.041	0.72	0.74	0.75	0.71	
	Back	0.499	0.376	0.172	0.366	0.190	0.017	0.038	0.88	0.88	0.90	0.86	
	Left side	0.130	0.376	0.172	0.366	0.190	0.002	0.002	0.51	0.50	0.50	0.49	
	Right side	0.047	0.376	0.172	0.366	0.190	0.039	0.173	0.42	0.45	0.59	0.41	
	Top side	0.983	0.376	0.172	0.366	0.190	0.021	0.021	1.36	1.37	1.37	1.35	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
LTE Band 7 Ant 2	Front	0.849	0.376	0.172	0.366	0.190	0.023	0.041	1.23	1.24	1.26	1.21	
	Back	1.245	0.376	0.172	0.366	0.190	0.017	0.038	1.62	1.63	1.65	1.61	1&2&3&4
	Left side	0.070	0.376	0.172	0.366	0.190	0.002	0.002	0.45	0.44	0.44	0.43	
	Right side	0.638	0.376	0.172	0.366	0.190	0.039	0.173	1.01	1.04	1.18	1.00	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.477	0.376	0.172	0.366	0.190			0.85	0.84	0.84	0.84	
LTE Band 41 Ant 1	Front	0.275	0.376	0.172	0.366	0.190	0.023	0.041	0.65	0.66	0.68	0.64	
	Back	0.378	0.376	0.172	0.366	0.190	0.017	0.038	0.75	0.76	0.78	0.74	
	Left side	0.092	0.376	0.172	0.366	0.190	0.002	0.002	0.47	0.46	0.46	0.45	
	Right side	0.044	0.376	0.172	0.366	0.190	0.039	0.173	0.42	0.45	0.58	0.41	
	Top side	1.019	0.376	0.172	0.366	0.190	0.021	0.021	1.40	1.41	1.41	1.38	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
LTE Band 41 Ant 2	Front	0.723	0.376	0.172	0.366	0.190	0.023	0.041	1.10	1.11	1.13	1.09	
	Back	1.195	0.376	0.172	0.366	0.190	0.017	0.038	1.57	1.58	1.60	1.56	9
	Left side	0.043	0.376	0.172	0.366	0.190	0.002	0.002	0.42	0.41	0.41	0.41	
	Right side	0.512	0.376	0.172	0.366	0.190	0.039	0.173	0.89	0.92	1.05	0.87	



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	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.452	0.376	0.172	0.366	0.190			0.83	0.82	0.82	0.81	
LTE Band 41 Ant 0	Front	0.422	0.376	0.172	0.366	0.190	0.023	0.041	0.80	0.81	0.83	0.78	
	Back	0.562	0.376	0.172	0.366	0.190	0.017	0.038	0.94	0.95	0.97	0.92	
	Left side	1.253	0.376	0.172	0.366	0.190	0.002	0.002	1.63	1.62	1.62	1.62	5&6&7&8
	Right side	0.037	0.376	0.172	0.366	0.190	0.039	0.173	0.41	0.44	0.58	0.40	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.913	0.376	0.172	0.366	0.190			1.29	1.28	1.28	1.28	
LTE Band 41 Ant 4	Front	0.313	0.376	0.172	0.366	0.190	0.023	0.041	0.69	0.70	0.72	0.68	
	Back	0.502	0.376	0.172	0.366	0.190	0.017	0.038	0.88	0.89	0.91	0.86	
	Left side	0.046	0.376	0.172	0.366	0.190	0.002	0.002	0.42	0.41	0.41	0.41	
	Right side	0.250	0.376	0.172	0.366	0.190	0.039	0.173	0.63	0.66	0.79	0.61	
	Top side	0.992	0.376	0.172	0.366	0.190	0.021	0.021	1.37	1.38	1.38	1.35	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
LTE Band 42 Ant 3	Front	0.337	0.376	0.172	0.366	0.190	0.023	0.041	0.71	0.73	0.74	0.70	
	Back	0.667	0.376	0.172	0.366	0.190	0.017	0.038	1.04	1.05	1.07	1.03	
	Left side	0.984	0.376	0.172	0.366	0.190	0.002	0.002	1.36	1.35	1.35	1.35	
	Right side	0.019	0.376	0.172	0.366	0.190	0.039	0.173	0.40	0.42	0.56	0.38	
	Top side	0.102	0.376	0.172	0.366	0.190	0.021	0.021	0.48	0.49	0.49	0.46	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	
LTE Band 48 Ant 3	Front	0.425	0.376	0.172	0.366	0.190	0.023	0.041	0.80	0.81	0.83	0.79	
	Back	0.676	0.376	0.172	0.366	0.190	0.017	0.038	1.05	1.06	1.08	1.04	
	Left side	0.859	0.376	0.172	0.366	0.190	0.002	0.002	1.24	1.23	1.23	1.22	
	Right side	0.017	0.376	0.172	0.366	0.190	0.039	0.173	0.39	0.42	0.56	0.38	
	Top side	0.085	0.376	0.172	0.366	0.190	0.021	0.021	0.46	0.47	0.47	0.45	
	Bottom side		0.376	0.172	0.366	0.190			0.38	0.37	0.37	0.36	

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2	1+4+6	1+4+7	1+3+5	Case No
		WWAN	WLAN2.4GHz Ant 4+6 non DBS	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+7 non DBS	WLAN5GHz Ant 5+7 WWAN+DBS	Bluetooth Ant 4	Bluetooth Ant 6	Summed	Summed	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
FR1 n5 Ant 0	Front	0.299	0.376	0.172	0.366	0.190	0.023	0.041	0.68	0.69	0.71	0.66	
	Back	0.501	0.376	0.172	0.366	0.190	0.017	0.038	0.88	0.88	0.91	0.86	
	Left side	0.274	0.376	0.172	0.366	0.190	0.002	0.002	0.65	0.64	0.64	0.64	
	Right side	0.099	0.376	0.172	0.366	0.190	0.039	0.173	0.48	0.50	0.64	0.46	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.411	0.376	0.172	0.366	0.190			0.79	0.78	0.78	0.77	
FR1 n66 Ant 1	Front	0.598	0.376	0.172	0.366	0.190	0.023	0.041	0.97	0.99	1.01	0.96	
	Back	0.975	0.376	0.172	0.366	0.190	0.017	0.038	1.35	1.36	1.38	1.34	
	Left side	0.864	0.376	0.172	0.366	0.190	0.002	0.002	1.24	1.23	1.23	1.23	
	Right side	0.037	0.376	0.172	0.366	0.190	0.039	0.173	0.41	0.44	0.58	0.40	
	Top side	0.733	0.376	0.172	0.366	0.190	0.021	0.021	1.11	1.12	1.12	1.10	
FR1 n2 Ant 1	Front	0.601	0.376	0.172	0.366	0.190	0.023	0.041	0.98	0.99	1.01	0.96	
	Back	0.997	0.376	0.172	0.366	0.190	0.017	0.038	1.37	1.38	1.40	1.36	
	Left side	0.846	0.376	0.172	0.366	0.190	0.002	0.002	1.22	1.21	1.21	1.21	
	Right side	0.057	0.376	0.172	0.366	0.190	0.039	0.173	0.43	0.46	0.60	0.42	
	Top side	0.920	0.376	0.172	0.366	0.190	0.021	0.021	1.30	1.31	1.31	1.28	
FR1 n7 Ant 1	Front	0.359	0.376	0.172	0.366	0.190	0.023	0.041	0.74	0.75	0.77	0.72	
	Back	0.517	0.376	0.172	0.366	0.190	0.017	0.038	0.89	0.90	0.92	0.88	
	Left side	0.130	0.376	0.172	0.366	0.190	0.002	0.002	0.51	0.50	0.50	0.49	
	Right side	0.037	0.376	0.172	0.366	0.190	0.039	0.173	0.41	0.44	0.58	0.40	
	Top side	0.985	0.376	0.172	0.366	0.190	0.021	0.021	1.36	1.37	1.37	1.35	
FR1 n7 Ant 2	Front	0.758	0.376	0.172	0.366	0.190	0.023	0.041	1.13	1.15	1.17	1.12	
	Back	1.253	0.376	0.172	0.366	0.190	0.017	0.038	1.63	1.64	1.66	1.62	1&2&3&4
	Left side	0.079	0.376	0.172	0.366	0.190	0.002	0.002	0.46	0.45	0.45	0.44	



	Right side	0.541	0.376	0.172	0.366	0.190	0.039	0.173	0.92	0.95	1.08	0.90	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.583	0.376	0.172	0.366	0.190			0.96	0.95	0.95	0.95	
FR1 n41 Ant 1	Front	0.420	0.376	0.172	0.366	0.190	0.023	0.041	0.80	0.81	0.83	0.78	
	Back	0.585	0.376	0.172	0.366	0.190	0.017	0.038	0.96	0.97	0.99	0.95	
	Left side	0.121	0.376	0.172	0.366	0.190	0.002	0.002	0.50	0.49	0.49	0.48	
	Right side	0.078	0.376	0.172	0.366	0.190	0.039	0.173	0.45	0.48	0.62	0.44	
	Top side	0.982	0.376	0.172	0.366	0.190	0.021	0.021	1.36	1.37	1.37	1.34	
FR1 n41 Ant 2	Front	0.850	0.376	0.172	0.366	0.190	0.023	0.041	1.23	1.24	1.26	1.21	
	Back	1.237	0.376	0.172	0.366	0.190	0.017	0.038	1.61	1.62	1.64	1.60	5&6&7&8
	Left side	0.080	0.376	0.172	0.366	0.190	0.002	0.002	0.46	0.45	0.45	0.44	
	Right side	0.591	0.376	0.172	0.366	0.190	0.039	0.173	0.97	1.00	1.13	0.95	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
FR1 n41 Ant 0	Bottom side	0.590	0.376	0.172	0.366	0.190			0.97	0.96	0.96	0.95	
	Front	0.462	0.376	0.172	0.366	0.190	0.023	0.041	0.84	0.85	0.87	0.82	
	Back	0.628	0.376	0.172	0.366	0.190	0.017	0.038	1.00	1.01	1.03	0.99	
	Left side	1.243	0.376	0.172	0.366	0.190	0.002	0.002	1.62	1.61	1.61	1.61	9&10&11&12
	Right side	0.038	0.376	0.172	0.366	0.190	0.039	0.173	0.41	0.44	0.58	0.40	
FR1 n41 Ant 4	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.765	0.376	0.172	0.366	0.190			1.14	1.13	1.13	1.13	
	Front	0.387	0.376	0.172	0.366	0.190	0.023	0.041	0.76	0.78	0.79	0.75	
	Back	0.539	0.376	0.172	0.366	0.190	0.017	0.038	0.92	0.92	0.94	0.90	
	Left side	0.057	0.376	0.172	0.366	0.190	0.002	0.002	0.43	0.43	0.43	0.42	
FR1 n77 Ant 3	Right side	0.226	0.376	0.172	0.366	0.190	0.039	0.173	0.60	0.63	0.77	0.59	
	Top side	0.993	0.376	0.172	0.366	0.190	0.021	0.021	1.37	1.38	1.38	1.36	
	Front	0.244	0.376	0.172	0.366	0.190	0.023	0.041	0.62	0.63	0.65	0.61	
	Back	0.619	0.376	0.172	0.366	0.190	0.017	0.038	1.00	1.00	1.02	0.98	
	Left side	0.758	0.376	0.172	0.366	0.190	0.002	0.002	1.13	1.13	1.13	1.12	
FR1 n77 Ant 7	Right side	0.086	0.376	0.172	0.366	0.190	0.039	0.173	0.46	0.49	0.63	0.45	
	Top side	0.004	0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.37	
	Front	0.232	0.376	0.172	0.366	0.190	0.023	0.041	0.61	0.62	0.64	0.59	
	Back	0.523	0.376	0.172	0.366	0.190	0.017	0.038	0.90	0.91	0.93	0.89	
	Left side	0.045	0.376	0.172	0.366	0.190	0.002	0.002	0.42	0.41	0.41	0.41	
FR1 n77 Ant 8	Right side	0.538	0.376	0.172	0.366	0.190	0.039	0.173	0.91	0.94	1.08	0.90	
	Top side	0.826	0.376	0.172	0.366	0.190	0.021	0.021	1.20	1.21	1.21	1.19	
	Front	0.035	0.376	0.172	0.366	0.190	0.023	0.041	0.41	0.42	0.44	0.40	
	Back	1.186	0.376	0.172	0.366	0.190	0.017	0.038	1.56	1.57	1.59	1.55	
	Left side	0.096	0.376	0.172	0.366	0.190	0.002	0.002	0.47	0.46	0.46	0.46	
FR1 n77 Ant 9	Right side	0.014	0.376	0.172	0.366	0.190	0.039	0.173	0.39	0.42	0.55	0.38	
	Top side	0.139	0.376	0.172	0.366	0.190	0.021	0.021	0.52	0.53	0.53	0.50	
	Front	0.344	0.376	0.172	0.366	0.190	0.023	0.041	0.72	0.73	0.75	0.71	
	Back	0.566	0.376	0.172	0.366	0.190	0.017	0.038	0.94	0.95	0.97	0.93	
	Left side	0.017	0.376	0.172	0.366	0.190	0.002	0.002	0.39	0.39	0.39	0.38	
	Right side	1.021	0.376	0.172	0.366	0.190	0.039	0.173	1.40	1.43	1.56	1.38	
	Top side		0.376	0.172	0.366	0.190	0.021	0.021	0.38	0.39	0.39	0.36	
	Bottom side	0.180	0.376	0.172	0.366	0.190			0.56	0.55	0.55	0.54	



17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	1+3	1+6+8	1+6+9	1+8+10	1+9+10	2+5	2+10	1+4+7	1+4+10	Case No
		WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 4+6 DBS only 1g SAR (W/kg)	WLAN2.4GHz Ant 4+6 non DBS 1g SAR (W/kg)	WLAN2.4GHz Ant 4+6 WWAN+DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+7 DBS only 1g SAR (W/kg)	WLAN5GHz Ant 5+7 non DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+7 WWAN+DBS 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	WLAN6E Ant 5+7 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
GSM850 Ant 0	Front	0.217	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.60	0.69	0.67	0.45	0.43	1.54	0.93	0.59	0.55	
	Back	0.392	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	0.77	0.84	0.81	0.66	0.63	1.54	0.98	0.76	0.77	
GSM850 Ant 1	Front	0.920	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.30	1.39	1.37	1.15	1.14	1.54	0.93	1.29	1.25	
	Back	0.920	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.30	1.37	1.34	1.18	1.15	1.54	0.98	1.29	1.30	
GSM1900 Ant 1	Front	0.996	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.38	1.47	1.45	1.23	1.21	1.54	0.93	1.37	1.33	
	Back	0.996	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.38	1.45	1.42	1.26	1.23	1.54	0.98	1.37	1.38	
GSM1900 Ant 2	Front	0.777	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.16	1.25	1.23	1.01	0.99	1.54	0.93	1.15	1.11	
	Back	1.210	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.59	1.66	1.63	1.47	1.44	1.54	0.98	1.58	1.59	2&3
WCDMA II Ant 1	Front	0.998	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.38	1.47	1.45	1.23	1.21	1.54	0.93	1.37	1.33	
	Back	0.998	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.38	1.45	1.42	1.26	1.23	1.54	0.98	1.37	1.38	
WCDMA II Ant 2	Front	0.944	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.32	1.41	1.40	1.18	1.16	1.54	0.93	1.32	1.27	
	Back	1.257	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.64	1.71	1.68	1.52	1.49	1.54	0.98	1.63	1.64	6&7&8&9&10
WCDMA IV Ant 1	Front	0.897	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.28	1.37	1.35	1.13	1.11	1.54	0.93	1.27	1.23	
	Back	0.897	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.28	1.35	1.32	1.16	1.13	1.54	0.98	1.27	1.28	
WCDMA IV Ant 2	Front	0.921	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.30	1.39	1.37	1.16	1.14	1.54	0.93	1.29	1.25	
	Back	1.253	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.63	1.70	1.67	1.52	1.49	1.54	0.98	1.63	1.63	11&12&13&14&15
WCDMA V Ant 0	Front	0.457	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.84	0.93	0.91	0.69	0.67	1.54	0.93	0.83	0.79	
	Back	0.765	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.14	1.22	1.19	1.03	1.00	1.54	0.98	1.14	1.15	
WCDMA V Ant 1	Front	0.575	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.95	1.05	1.03	0.81	0.79	1.54	0.93	0.95	0.91	
	Back	0.975	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.35	1.43	1.40	1.24	1.21	1.54	0.98	1.35	1.36	
LTE Band 12 Ant 0	Front	0.293	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.67	0.76	0.74	0.53	0.51	1.54	0.93	0.67	0.62	
	Back	0.501	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	0.88	0.95	0.92	0.77	0.74	1.54	0.98	0.87	0.88	
LTE Band 12 Ant 1	Front	0.374	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.75	0.84	0.83	0.61	0.59	1.54	0.93	0.75	0.70	
	Back	0.762	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.14	1.21	1.18	1.03	1.00	1.54	0.98	1.13	1.14	
LTE Band 13 Ant 0	Front	0.467	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.85	0.94	0.92	0.70	0.68	1.54	0.93	0.84	0.80	
	Back	0.790	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.17	1.24	1.21	1.05	1.02	1.54	0.98	1.16	1.17	
LTE Band 13 Ant 1	Front	0.457	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.84	0.93	0.91	0.69	0.67	1.54	0.93	0.83	0.79	
	Back	0.877	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.26	1.33	1.30	1.14	1.11	1.54	0.98	1.25	1.26	
LTE Band 26 Ant 0	Front	0.423	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.80	0.89	0.87	0.66	0.64	1.54	0.93	0.80	0.75	
	Back	0.803	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.18	1.25	1.22	1.07	1.04	1.54	0.98	1.18	1.18	
LTE Band 26 Ant 1	Front	0.559	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.94	1.03	1.01	0.79	0.77	1.54	0.93	0.93	0.89	
	Back	0.989	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.37	1.44	1.41	1.25	1.22	1.54	0.98	1.36	1.37	
LTE Band 66 Ant 1	Front	1.054	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.43	1.52	1.51	1.29	1.27	1.54	0.93	1.43	1.38	
	Back	1.054	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.43	1.50	1.47	1.32	1.29	1.54	0.98	1.43	1.43	
LTE Band 66 Ant 2	Front	0.994	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.37	1.46	1.45	1.23	1.21	1.54	0.93	1.37	1.32	
	Back	1.240	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.62	1.69	1.66	1.50	1.47	1.54	0.98	1.61	1.62	16&17&18&19&20
LTE Band 25 Ant 1	Front	0.930	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.31	1.40	1.38	1.16	1.15	1.54	0.93	1.30	1.26	
	Back	0.930	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.31	1.38	1.35	1.19	1.16	1.54	0.98	1.30	1.31	
LTE Band 25 Ant 2	Front	0.879	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.26	1.35	1.33	1.11	1.09	1.54	0.93	1.25	1.21	
	Back	1.247	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.63	1.70	1.67	1.51	1.48	1.54	0.98	1.62	1.63	21&22&23&24&25
LTE Band 7 Ant 1	Front	0.983	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.36	1.45	1.43	1.22	1.20	1.54	0.93	1.36	1.31	
	Back	0.983	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.36	1.43	1.40	1.25	1.22	1.54	0.98	1.36	1.36	
LTE Band 7 Ant 2	Front	0.839	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.22	1.31	1.29	1.07	1.05	1.54	0.93	1.21	1.17	
	Back	1.245	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.62	1.70	1.67	1.51	1.48	1.54	0.98	1.62	1.63	26&27&28&29&30
LTE Band 41 Ant 1	Front	0.906	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.29	1.38	1.36	1.14	1.12	1.54	0.93	1.28	1.24	
	Back	0.906	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.29	1.36	1.33	1.17	1.14	1.54	0.98	1.28	1.29	
LTE Band 41 Ant 2	Front	0.658	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.04	1.13	1.11	0.89	0.87	1.54	0.93	1.03	0.99	
	Back	1.135	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.51	1.59	1.56	1.40	1.37	1.54	0.98	1.51	1.52	



FCC SAR Test Report

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LTE Band 41 Ant 0	Front	0.963	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.34	1.43	1.41	1.20	1.18	1.54	0.93	1.34	1.29	
	Back	1.253	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.63	1.70	1.67	1.52	1.49	1.54	0.98	1.63	1.63	31&32&33&34&35
LTE Band 41 Ant 4	Front	0.550	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.93	1.02	1.00	0.78	0.77	1.54	0.93	0.92	0.88	
	Back	0.888	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.27	1.34	1.31	1.15	1.12	1.54	0.98	1.26	1.27	
LTE Band 42 Ant 3	Front	0.782	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.16	1.25	1.23	1.02	1.00	1.54	0.93	1.15	1.11	
	Back	0.782	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.16	1.23	1.20	1.05	1.02	1.54	0.98	1.15	1.16	
LTE Band 48 Ant 3	Front	0.425	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.80	0.90	0.88	0.66	0.64	1.54	0.93	0.80	0.76	
	Back	0.676	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.06	1.13	1.10	0.94	0.91	1.54	0.98	1.05	1.06	
LTE Band 42 Ant 8	Front	0.859	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.24	1.33	1.31	1.09	1.07	1.54	0.93	1.23	1.19	
	Back	0.859	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.24	1.31	1.28	1.12	1.09	1.54	0.98	1.23	1.24	
LTE Band 48 Ant 8	Front	0.948	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.33	1.42	1.40	1.18	1.16	1.54	0.93	1.32	1.28	
	Back	0.948	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.33	1.40	1.37	1.21	1.18	1.54	0.98	1.32	1.33	

WWAN Band	Exposure Position	1g SAR (W/kg)																	Case No			
		1	2	3	4	5	6	7	8	9	10	1+3	1+6+8	1+6+9	1+8+10	1+9+10	2+5	2+10		1+4+7	1+4+10	
		WWAN	WLAN2.4GHz Ant 4+6 DBS only	WLAN2.4GHz Ant 4+6 non DBS	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+7 DBS only	WLAN5GHz Ant 5+7 non DBS	WLAN5GHz Ant 5+7 WWAN+DBS	Bluetooth Ant 4	Bluetooth Ant 6	WLAN6E Ant 5+7	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
FR1 n5 Ant 0	Front	0.299	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	0.68	0.77	0.75	0.53	0.51	1.54	0.93	0.67	0.63		
	Back	0.501	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	0.88	0.95	0.92	0.77	0.74	1.54	0.98	0.87	0.88		
FR1 n6 Ant 1	Front	0.975	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.35	1.45	1.43	1.21	1.19	1.54	0.93	1.35	1.31		
	Back	0.975	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.35	1.43	1.40	1.24	1.21	1.54	0.98	1.35	1.36		
FR1 n2 Ant 1	Front	0.997	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.38	1.47	1.45	1.23	1.21	1.54	0.93	1.37	1.33		
	Back	0.997	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.38	1.45	1.42	1.26	1.23	1.54	0.98	1.37	1.38		
FR1 n7 Ant 1	Front	0.906	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.29	1.38	1.36	1.14	1.12	1.54	0.93	1.28	1.24		
	Back	0.906	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.29	1.36	1.33	1.17	1.14	1.54	0.98	1.28	1.29		
FR1 n7 Ant 2	Front	0.758	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.14	1.23	1.21	0.99	0.97	1.54	0.93	1.13	1.09		
	Back	1.253	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.63	1.70	1.67	1.52	1.49	1.54	0.98	1.63	1.63	42&43&44&45&46	
FR1 n41 Ant 1	Front	0.997	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.38	1.47	1.45	1.23	1.21	1.54	0.93	1.37	1.33		
	Back	0.997	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.38	1.45	1.42	1.26	1.23	1.54	0.98	1.37	1.38		
FR1 n41 Ant 2	Front	0.819	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.20	1.29	1.27	1.05	1.03	1.54	0.93	1.19	1.15		
	Back	1.237	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.62	1.69	1.66	1.50	1.47	1.54	0.98	1.61	1.62	47&48&49&50&51	
FR1 n41 Ant 0	Front	0.789	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.17	1.26	1.24	1.02	1.00	1.54	0.93	1.16	1.12		
	Back	1.238	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.62	1.69	1.66	1.50	1.47	1.54	0.98	1.61	1.62	36&37&38&39&40	
FR1 n41 Ant 4	Front	0.713	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.09	1.18	1.16	0.95	0.93	1.54	0.93	1.09	1.04		
	Back	0.993	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.37	1.44	1.41	1.26	1.23	1.54	0.98	1.37	1.37		
FR1 n77 Ant 3	Front	0.972	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.35	1.44	1.42	1.21	1.19	1.54	0.93	1.34	1.30		
	Back	0.972	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.35	1.42	1.39	1.24	1.21	1.54	0.98	1.34	1.35		
FR1 n77 Ant 7	Front	0.824	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.20	1.29	1.28	1.06	1.04	1.54	0.93	1.20	1.15		
	Back	0.824	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.20	1.27	1.24	1.09	1.06	1.54	0.98	1.20	1.20		
FR1 n77 Ant 8	Front	0.988	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.37	1.46	1.44	1.22	1.20	1.54	0.93	1.36	1.32		
	Back	0.988	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.37	1.44	1.41	1.25	1.22	1.54	0.98	1.36	1.37		
FR1 n77 Ant 9	Front	0.757	0.785	0.379	0.184	0.752	0.382	0.188	0.088	0.069	0.146	1.14	1.23	1.21	0.99	0.97	1.54	0.93	1.13	1.09		
	Back	1.174	0.785	0.379	0.184	0.752	0.382	0.188	0.068	0.038	0.196	1.55	1.62	1.59	1.44	1.41	1.54	0.98	1.55	1.55	41	



<Sensor off>

WWAN Band	Exposure Position	1	2	3	1+2+3
		WWAN	WLAN2.4GHz Ant 4+6	WLAN5GHz Ant 5+7	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM1900 Ant 1	Front	0.253	0.344	0.286	0.88
	Back	0.295	0.324	0.455	1.07
GSM1900 Ant 2	Front	0.363	0.344	0.286	0.99
	Back	0.202	0.324	0.455	0.98
WCDMA II Ant 1	Front	0.364	0.344	0.286	0.99
	Back	0.473	0.324	0.455	1.25
WCDMA II Ant 2	Front	0.444	0.344	0.286	1.07
	Back	0.404	0.324	0.455	1.18
WCDMA IV Ant 1	Front	0.421	0.344	0.286	1.05
	Back	0.529	0.324	0.455	1.31
WCDMA IV Ant 2	Front	0.543	0.344	0.286	1.17
	Back	0.446	0.324	0.455	1.23
FR1 n66 Ant 1	Front	0.477	0.344	0.286	1.11
	Back	0.597	0.324	0.455	1.38
FR1 n2 Ant 1	Front	0.120	0.344	0.286	0.75
	Back	0.166	0.324	0.455	0.95
FR1 n7 Ant 1	Front	0.459	0.344	0.286	1.09
	Back	0.431	0.324	0.455	1.21
FR1 n41 Ant 1	Front	0.537	0.344	0.286	1.17
	Back	0.483	0.324	0.455	1.26
FR1 n7 Ant 2	Front	0.157	0.344	0.286	0.79
	Back	0.150	0.324	0.455	0.93
FR1 n41 Ant 2	Front	0.374	0.344	0.286	1.00
	Back	0.342	0.324	0.455	1.12
FR1 n41 Ant 0	Front	0.155	0.344	0.286	0.79
	Back	0.167	0.324	0.455	0.95
LTE Band 66 Ant 1	Front	0.463	0.344	0.286	1.09
	Back	0.573	0.324	0.455	1.35
LTE Band 66 Ant 2	Front	0.576	0.344	0.286	1.21
	Back	0.350	0.324	0.455	1.13
LTE Band 25 Ant 1	Front	0.336	0.344	0.286	0.97
	Back	0.434	0.324	0.455	1.21
LTE Band 25 Ant 2	Front	0.567	0.344	0.286	1.20
	Back	0.373	0.324	0.455	1.15
LTE Band 7 Ant 1	Front	0.454	0.344	0.286	1.08
	Back	0.335	0.324	0.455	1.11
LTE Band 7 Ant 2	Front	0.533	0.344	0.286	1.16
	Back	0.266	0.324	0.455	1.05
LTE Band 41 Ant 1	Front	0.714	0.344	0.286	1.34
	Back	0.661	0.324	0.455	1.44
LTE Band 41 Ant 2	Front	0.552	0.344	0.286	1.18
	Back	0.596	0.324	0.455	1.38
LTE Band 41 Ant 0	Front	0.109	0.344	0.286	0.74
	Back	0.400	0.324	0.455	1.18
LTE Band 42 Ant 8	Front	0.466	0.344	0.286	1.10
	Back	0.372	0.324	0.455	1.15
LTE Band 48 Ant 8	Front	0.313	0.344	0.286	0.94
	Back	0.405	0.324	0.455	1.18
FR1 n77 Ant 7	Front	0.310	0.344	0.286	0.94
	Back	0.557	0.324	0.455	1.34
FR1 n77 HPUE Ant 8	Front	0.111	0.344	0.286	0.74
	Back	0.781	0.324	0.455	1.56



17.5 Product specific 10g SAR Exposure Conditions

Remark:

1. For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3	1+6+8	1+6	1+8	2+5	2+8	1+4+7	1+4+8	
		WWAN	WLAN2.4GHz Ant 4+6 DBS only	WLAN2.4GHz Ant 4+6 non DBS	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+7 DBS only	WLAN5GHz Ant 5+7 non DBS	WLAN5GHz Ant 5+7 WWAN+DBS	WLAN6E Ant 5+7	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
GSM850 Ant 1	Top side	2.601	1.745	0.769	0.356	1.640	0.760	0.341	0.537	3.37	3.36	3.36	3.14	3.39	2.28	3.30	3.49	
GSM1900 Ant 1	Front	1.770	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.54	2.53	2.53	2.27	3.39	2.24	2.47	2.63	
	Back	1.477	1.745	0.769	0.356	1.640	0.760	0.341	0.347	2.25	2.24	2.24	1.82	3.39	2.09	2.17	2.18	
	Left side	2.840	1.745	0.769	0.356	1.640	0.760	0.341	0.023	3.61	3.60	3.60	2.86	3.39	1.77	3.54	3.22	
	Top side	1.566	1.745	0.769	0.356	1.640	0.760	0.341	0.537	2.34	2.33	2.33	2.10	3.39	2.28	2.26	2.46	
GSM1900 Ant 2	Front	1.559	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.33	2.32	2.32	2.06	3.39	2.24	2.26	2.41	
	Back	1.838	1.745	0.769	0.356	1.640	0.760	0.341	0.347	2.61	2.60	2.60	2.19	3.39	2.09	2.54	2.54	
	Right side	1.085	1.745	0.769	0.356	1.640	0.760	0.341	0.429	1.85	1.85	1.85	1.51	3.39	2.17	1.78	1.87	
	Bottom side	2.163	1.745	0.769	0.356	1.640	0.760	0.341		2.93	2.92	2.92	2.16	3.39	1.75	2.86	2.52	
WCDMA IV Ant 2	Front	1.731	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.50	2.49	2.49	2.23	3.39	2.24	2.43	2.59	
	Back	2.751	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.52	3.51	3.51	3.10	3.39	2.09	3.45	3.45	
	Bottom side	2.580	1.745	0.769	0.356	1.640	0.760	0.341		3.35	3.34	3.34	2.58	3.39	1.75	3.28	2.94	
WCDMA II Ant 2	Front	1.534	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.30	2.29	2.29	2.03	3.39	2.24	2.23	2.39	
	Back	2.729	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.50	3.49	3.49	3.08	3.39	2.09	3.43	3.43	
	Bottom side	2.601	1.745	0.769	0.356	1.640	0.760	0.341		3.37	3.36	3.36	2.60	3.39	1.75	3.30	2.96	
WCDMA IV Ant 1	Front	2.532	1.745	0.769	0.356	1.640	0.760	0.341	0.499	3.30	3.29	3.29	3.03	3.39	2.24	3.23	3.39	
	Back	2.431	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.20	3.19	3.19	2.78	3.39	2.09	3.13	3.13	
	Left side	2.111	1.745	0.769	0.356	1.640	0.760	0.341	0.023	2.88	2.87	2.87	2.13	3.39	1.77	2.81	2.49	
	Top side	2.757	1.745	0.769	0.356	1.640	0.760	0.341	0.537	3.53	3.52	3.52	3.29	3.39	2.28	3.45	3.65	
LTE Band 66 Ant 1	Front	2.646	1.745	0.769	0.356	1.640	0.760	0.341	0.499	3.42	3.41	3.41	3.15	3.39	2.24	3.34	3.50	
	Back	2.648	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.42	3.41	3.41	3.00	3.39	2.09	3.35	3.35	
	Left side	2.064	1.745	0.769	0.356	1.640	0.760	0.341	0.023	2.83	2.82	2.82	2.09	3.39	1.77	2.76	2.44	
	Top side	2.712	1.745	0.769	0.356	1.640	0.760	0.341	0.537	3.48	3.47	3.47	3.25	3.39	2.28	3.41	3.61	
LTE Band 66 Ant 2	Front	2.215	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.98	2.98	2.98	2.71	3.39	2.24	2.91	3.07	
	Back	2.717	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.49	3.48	3.48	3.06	3.39	2.09	3.41	3.42	
	Bottom side	2.687	1.745	0.769	0.356	1.640	0.760	0.341		3.46	3.45	3.45	2.69	3.39	1.75	3.38	3.04	
LTE Band 25 Ant 1	Front	1.855	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.62	2.62	2.62	2.35	3.39	2.24	2.55	2.71	
	Back	1.580	1.745	0.769	0.356	1.640	0.760	0.341	0.347	2.35	2.34	2.34	1.93	3.39	2.09	2.28	2.28	
	Left side	2.612	1.745	0.769	0.356	1.640	0.760	0.341	0.023	3.38	3.37	3.37	2.64	3.39	1.77	3.31	2.99	
	Top side	1.881	1.745	0.769	0.356	1.640	0.760	0.341	0.537	2.65	2.64	2.64	2.42	3.39	2.28	2.58	2.77	
LTE Band 25 Ant 2	Front	1.646	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.42	2.41	2.41	2.15	3.39	2.24	2.34	2.50	
	Back	2.724	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.49	3.48	3.48	3.07	3.39	2.09	3.42	3.43	
	Bottom side	2.506	1.745	0.769	0.356	1.640	0.760	0.341		3.28	3.27	3.27	2.51	3.39	1.75	3.20	2.86	
LTE Band 7 Ant 1	Front	1.158	1.745	0.769	0.356	1.640	0.760	0.341	0.499	1.93	1.92	1.92	1.66	3.39	2.24	1.86	2.01	
	Back	0.910	1.745	0.769	0.356	1.640	0.760	0.341	0.347	1.68	1.67	1.67	1.26	3.39	2.09	1.61	1.61	
	Top side	2.597	1.745	0.769	0.356	1.640	0.760	0.341	0.537	3.37	3.36	3.36	3.13	3.39	2.28	3.29	3.49	
LTE Band 41 Ant 1	Front	1.513	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.28	2.27	2.27	2.01	3.39	2.24	2.21	2.37	
	Back	1.082	1.745	0.769	0.356	1.640	0.760	0.341	0.347	1.85	1.84	1.84	1.43	3.39	2.09	1.78	1.79	
	Top side	2.816	1.745	0.769	0.356	1.640	0.760	0.341	0.537	3.59	3.58	3.58	3.35	3.39	2.28	3.51	3.71	
LTE Band 7 Ant 2	Front	1.661	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.43	2.42	2.42	2.16	3.39	2.24	2.36	2.52	
	Back	2.733	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.50	3.49	3.49	3.08	3.39	2.09	3.43	3.44	
LTE Band 41 Ant 2	Front	1.610	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.38	2.37	2.37	2.11	3.39	2.24	2.31	2.47	
	Back	2.673	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.44	3.43	3.43	3.02	3.39	2.09	3.37	3.38	
LTE Band 41 Ant 0	Left side	2.685	1.745	0.769	0.356	1.640	0.760	0.341	0.023	3.45	3.45	3.45	2.71	3.39	1.77	3.38	3.06	
	Bottom side	1.346	1.745	0.769	0.356	1.640	0.760	0.341		2.12	2.11	2.11	1.35	3.39	1.75	2.04	1.70	
LTE Band 41 Ant 4	Top side	2.263	1.745	0.769	0.356	1.640	0.760	0.341	0.537	3.03	3.02	3.02	2.80	3.39	2.28	2.96	3.16	
LTE Band 42	Back	1.620	1.745	0.769	0.356	1.640	0.760	0.341	0.347	2.39	2.38	2.38	1.97	3.39	2.09	2.32	2.32	



FCC SAR Test Report

Report No. : FA282619

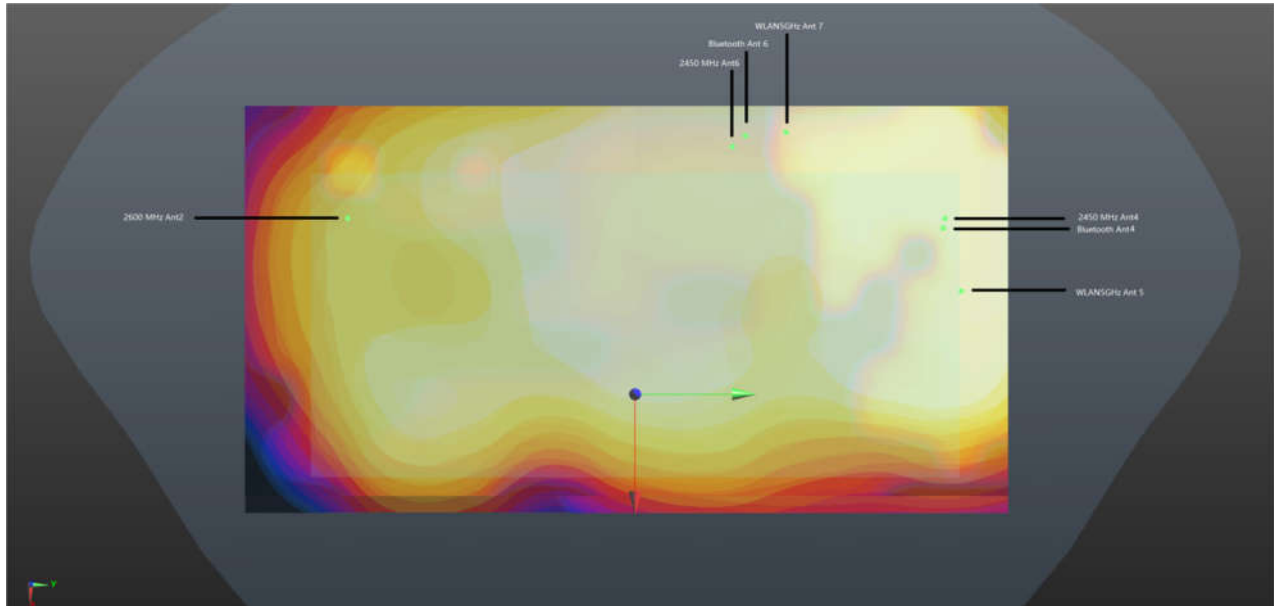
Ant 3	Left side	2.466	1.745	0.769	0.356	1.640	0.760	0.341	0.023	3.24	3.23	3.23	2.49	3.39	1.77	3.16	2.85
LTE Band 42 Ant 8	Back	2.014	1.745	0.769	0.356	1.640	0.760	0.341	0.347	2.78	2.77	2.77	2.36	3.39	2.09	2.71	2.72
LTE Band 48 Ant 8	Back	2.607	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.38	3.37	3.37	2.95	3.39	2.09	3.30	3.31

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3	1+6+8	1+6	1+8	2+5	2+8	1+4+7	1+4+8	
		WWAN	WLAN2.4GHz Ant 4+6 DBS only	WLAN2.4GHz Ant 4+6 non DBS	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+7 DBS only	WLAN5GHz Ant 5+7 non DBS	WLAN5GHz Ant 5+7 WWAN+DBS	WLAN6E Ant 5+7	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
FR1 n66 Ant 1	Front	2.185	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.95	3.44	2.95	2.68	3.39	2.24	2.88	3.04	
	Back	2.038	1.745	0.769	0.356	1.640	0.760	0.341	0.347	2.81	3.15	2.80	2.39	3.39	2.09	2.74	2.74	
	Left side	1.984	1.745	0.769	0.356	1.640	0.760	0.341	0.023	2.75	2.77	2.74	2.01	3.39	1.77	2.68	2.36	
	Top side	2.590	1.745	0.769	0.356	1.640	0.760	0.341	0.537	3.36	3.89	3.35	3.13	3.39	2.28	3.29	3.48	
FR1 n2 Ant 1	Front	1.890	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.66	3.15	2.65	2.39	3.39	2.24	2.59	2.75	
	Back	1.525	1.745	0.769	0.356	1.640	0.760	0.341	0.347	2.29	2.63	2.29	1.87	3.39	2.09	2.22	2.23	
	Left side	2.769	1.745	0.769	0.356	1.640	0.760	0.341	0.023	3.54	3.55	3.53	2.79	3.39	1.77	3.47	3.15	
FR1 n7 Ant 1	Front	2.117	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.89	3.38	2.88	2.62	3.39	2.24	2.81	2.97	
	Back	1.384	1.745	0.769	0.356	1.640	0.760	0.341	0.347	2.15	2.49	2.14	1.73	3.39	2.09	2.08	2.09	
	Top side	2.629	1.745	0.769	0.356	1.640	0.760	0.341	0.537	3.40	3.93	3.39	3.17	3.39	2.28	3.33	3.52	
FR1 n41 Ant 1	Front	2.275	1.745	0.769	0.356	1.640	0.760	0.341	0.499	3.04	3.53	3.04	2.77	3.39	2.24	2.97	3.13	
	Back	1.672	1.745	0.769	0.356	1.640	0.760	0.341	0.347	2.44	2.78	2.43	2.02	3.39	2.09	2.37	2.38	
	Top side	2.596	1.745	0.769	0.356	1.640	0.760	0.341	0.537	3.37	3.89	3.36	3.13	3.39	2.28	3.29	3.49	
FR1 n7 Ant 2	Front	1.586	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.36	2.85	2.35	2.09	3.39	2.24	2.28	2.44	
	Back	2.581	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.35	3.69	3.34	2.93	3.39	2.09	3.28	3.28	
	Bottom side	1.244	1.745	0.769	0.356	1.640	0.760	0.341		2.01	2.00	2.00	1.24	3.39	1.75	1.94	1.60	
FR1 n41 Ant 2	Front	1.621	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.39	2.88	2.38	2.12	3.39	2.24	2.32	2.48	
	Back	2.763	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.53	3.87	3.52	3.11	3.39	2.09	3.46	3.47	
	Right side	1.959	1.745	0.769	0.356	1.640	0.760	0.341	0.429	2.73	3.15	2.72	2.39	3.39	2.17	2.66	2.74	
	Bottom side	1.215	1.745	0.769	0.356	1.640	0.760	0.341		1.98	1.98	1.98	1.22	3.39	1.75	1.91	1.57	
FR1 n41 Ant 0	Front	0.984	1.745	0.769	0.356	1.640	0.760	0.341	0.499	1.75	2.24	1.74	1.48	3.39	2.24	1.68	1.84	
	Back	1.134	1.745	0.769	0.356	1.640	0.760	0.341	0.347	1.90	2.24	1.89	1.48	3.39	2.09	1.83	1.84	
	Left side	2.713	1.745	0.769	0.356	1.640	0.760	0.341	0.023	3.48	3.50	3.47	2.74	3.39	1.77	3.41	3.09	
	Bottom side	1.524	1.745	0.769	0.356	1.640	0.760	0.341		2.29	2.28	2.28	1.52	3.39	1.75	2.22	1.88	
FR1 n41 Ant 4	Front	1.522	1.745	0.769	0.356	1.640	0.760	0.341	0.499	2.29	2.78	2.28	2.02	3.39	2.24	2.22	2.38	
	Back	1.111	1.745	0.769	0.356	1.640	0.760	0.341	0.347	1.88	2.22	1.87	1.46	3.39	2.09	1.81	1.81	
	Top side	2.559	1.745	0.769	0.356	1.640	0.760	0.341	0.537	3.33	3.86	3.32	3.10	3.39	2.28	3.26	3.45	
FR1 n77 Ant 3	Back	1.051	1.745	0.769	0.356	1.640	0.760	0.341	0.347	1.82	2.16	1.81	1.40	3.39	2.09	1.75	1.75	
	Left side	1.712	1.745	0.769	0.356	1.640	0.760	0.341	0.023	2.48	2.50	2.47	1.74	3.39	1.77	2.41	2.09	
FR1 n77 Ant 7	Back	0.783	1.745	0.769	0.356	1.640	0.760	0.341	0.347	1.55	1.89	1.54	1.13	3.39	2.09	1.48	1.49	
	Right side	2.157	1.745	0.769	0.356	1.640	0.760	0.341	0.429	2.93	3.35	2.92	2.59	3.39	2.17	2.85	2.94	
FR1 n77 Ant 8	Top side	1.674	1.745	0.769	0.356	1.640	0.760	0.341	0.537	2.44	2.97	2.43	2.21	3.39	2.28	2.37	2.57	
	Back	2.664	1.745	0.769	0.356	1.640	0.760	0.341	0.347	3.43	3.77	3.42	3.01	3.39	2.09	3.36	3.37	
FR1 n77 Ant 9	Front	0.918	1.745	0.769	0.356	1.640	0.760	0.341	0.499	1.69	2.18	1.68	1.42	3.39	2.24	1.62	1.77	
	Back	1.277	1.745	0.769	0.356	1.640	0.760	0.341	0.347	2.05	2.38	2.04	1.62	3.39	2.09	1.97	1.98	
	Right side	2.698	1.745	0.769	0.356	1.640	0.760	0.341	0.429	3.47	3.89	3.46	3.13	3.39	2.17	3.40	3.48	

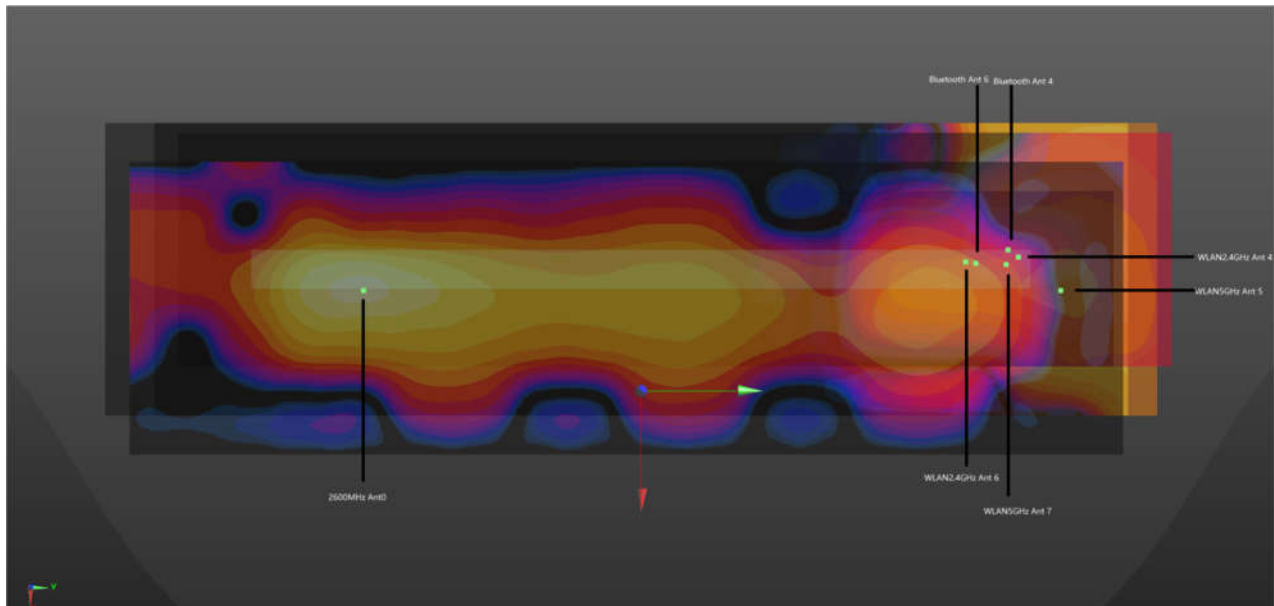
17.6 SPLSR Evaluation and Analysis

General Note:

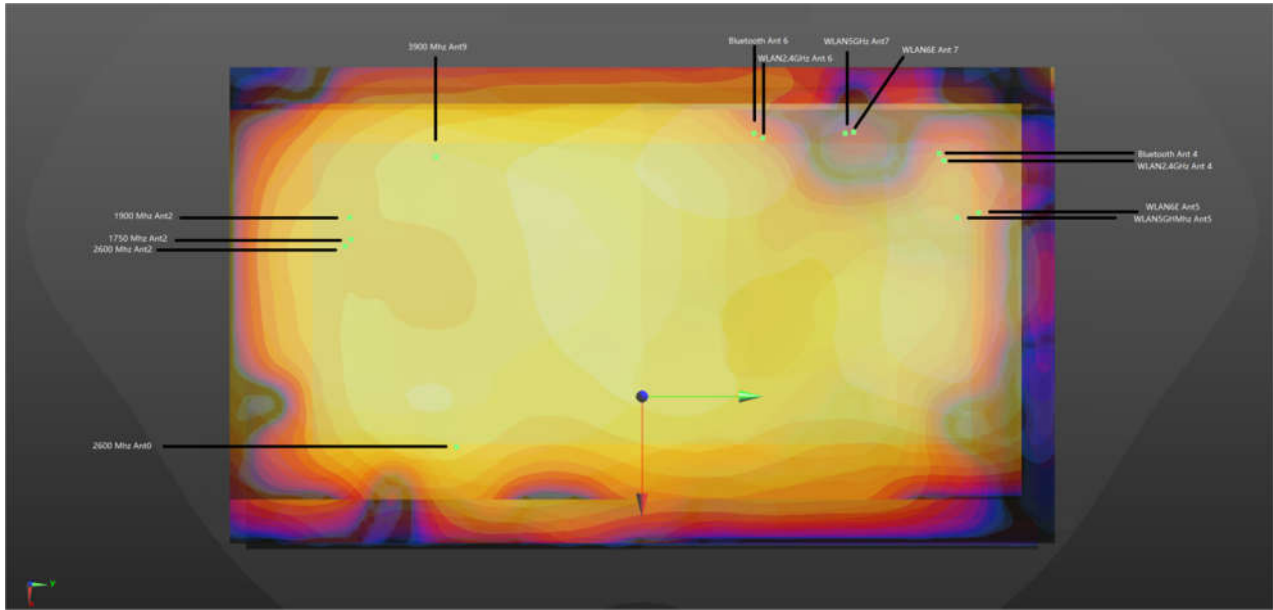
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.
3. Instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.



WWAN+WLAN2.4G (Ant4+6) / WLAN5G (Ant5+7)+BT_Back 5mm



WWAN+WLAN2.4G (Ant4+6) / WLAN5G (Ant5+7)+BT_Left Side 5mm



WWAN+WLAN2.4G (Ant4+6) / WLAN5G (Ant5+7)/WLAN6E (Ant 5+7)+BT_Back 5mm

<Hotspot SAR>

Case	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 1	LTE Band 7 Ant 2	Back	1.245	5mm	-25.4	-73.8	-3.3	150.2	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.376	5mm	-8.4	75.4	1.22				
Case 2	LTE Band 7 Ant 2	Back	1.245	5mm	-25.4	-73.8	-3.3	146.9	1.63	0.01	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.017	5mm	-14.6	81.6	-2.85				
Case 3	LTE Band 7 Ant 2	Back	1.245	5mm	-25.4	-73.8	-3.3	117.0	1.65	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				
Case 4	LTE Band 7 Ant 2	Back	1.245	5mm	-25.4	-73.8	-3.3	146.9	1.61	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.172	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.192	5mm	-33.4	72.8	1.11				
Case 5	LTE Band 41 Ant 0	Left Side	1.253	5mm	-5.4	-58	-2.23	127.9	1.63	0.02	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.376	5mm	-2.2	69.8	1.43				
Case 6	LTE Band 41 Ant 0	Left Side	1.253	5mm	-5.4	-58	-2.23	133.9	1.62	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-1.8	75.8	1.45				
	Bluetooth Ant 4		0.002	5mm	9.4	87.2	1.49				
Case 7	LTE Band 41 Ant 0	Left Side	1.253	5mm	-5.4	-58	-2.23	133.9	1.62	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-1.8	75.8	1.45				



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	Bluetooth Ant 6		0.002	5mm	5	90.4	1.49				
Case 8	LTE Band 41 Ant 0	Left Side	1.253	5mm	-5.4	-58	-2.23	127.9	1.62	0.02	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.172	5mm	-2.2	69.8	1.43				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.192	5mm	-1.8	75.8	1.45				
Case 9	LTE Band 41 Ant 2	Back	1.195	5mm	-18	-68.8	1.27	113.1	1.60	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				

<5G NR SAR>

Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 1	FR1 N7 Ant 2	Back	1.253	5mm	-19.6	-69	1.32	144.8	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.376	5mm	-8.4	75.4	1.22				
Case 2	FR1 N7 Ant 2	Back	1.253	5mm	-19.6	-69	1.32	142.5	1.64	0.01	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.017	5mm	-14.6	81.6	-2.85				
Case 3	FR1 N7 Ant 2	Back	1.253	5mm	-19.6	-69	1.32	113.0	1.66	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				
Case 4	FR1 N7 Ant 2	Back	1.253	5mm	-19.6	-69	1.32	142.5	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.172	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.192	5mm	-33.4	72.8	1.11				
Case 5	FR1 N41 Ant 2	Back	1.237	5mm	-20	-71	0.95	146.9	1.61	0.01	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.376	5mm	-8.4	75.4	1.22				
Case 6	FR1 N41 Ant 2	Back	1.237	5mm	-20	-71	0.95	144.4	1.62	0.01	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.017	5mm	-14.6	81.6	-2.85				
Case 7	FR1 N41 Ant 2	Back	1.237	5mm	-20	-71	0.95	114.9	1.64	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				
Case 8	FR1 N41 Ant 2	Back	1.237	5mm	-20	-71	0.95	144.4	1.60	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.172	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.192	5mm	-33.4	72.8	1.11				
Case 9	FR1 N41 Ant 0	Left Side	1.243	5mm	6.8	-52.8	-2.14	123.0	1.62	0.02	Not required



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 10	WLAN2.4GHz Ant 4+6 non DBS		0.376	5mm	-2.2	69.8	1.43				
	FR1 N41 Ant 0	Left Side	1.243	5mm	6.8	-52.8	-2.14	128.9	1.61	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-1.8	75.8	1.45				
	Bluetooth Ant 4		0.002	5mm	9.4	87.2	1.49				
Case 11	FR1 N41 Ant 0	Left Side	1.243	5mm	6.8	-52.8	-2.14	105.8	1.61	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.369	5mm	-1.8	75.8	1.45				
	Bluetooth Ant 6		0.002	5mm	-39.6	42.2	1.33				
	Case 12	FR1 N41 Ant 0	Left Side	1.243	5mm	6.8	-52.8	-2.14	123.0	1.61	0.02
WLAN2.4GHz Ant 4+6 WWAN+DBS		0.172		5mm	-2.2	69.8	1.43				
WLAN5GHz Ant 5+7 WWAN+DBS		0.192		5mm	-1.8	75.8	1.45				

<Body-worn SAR>

Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 2	GSM1900 Ant 2	Back	1.21	5mm	-11.4	-69	-2.13	150.6	1.66	0.01	Not required
	WLAN5GHz Ant 5+7 non DBS		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.068	5mm	-14.6	81.6	-2.85				
	Case 3	GSM1900 Ant 2	Back	1.21	5mm	-11.4	-69	-2.13	114.8	1.63	0.02
WLAN5GHz Ant 5+7 DBS only		0.382		5mm	-33.4	72.8	1.11				
Bluetooth Ant 6		0.038		5mm	-39.6	42.2	1.33				
Case 6		WCDMA II Ant 2	Back	1.257	5mm	-19.5	-76.8	-3.14	147.7	1.64	0.01
	WLAN2.4GHz Ant 4+6 non DBS	0.379		5mm	-30.6	70.4	0.97				
	Case 7	WCDMA II Ant 2	Back	1.257	5mm	-19.5	-76.8	-3.14	158.5	1.71	0.01
WLAN5GHz Ant 5+7 non DBS		0.382		5mm	-33.4	72.8	1.11				
Bluetooth Ant 4		0.068		5mm	-14.6	81.6	-2.85				
Case 8		WCDMA II Ant 2	Back	1.257	5mm	-19.5	-76.8	-3.14	120.8	1.68	0.02
	WLAN5GHz Ant 5+7 DBS only	0.382		5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6	0.038		5mm	-39.6	42.2	1.33				
	Case 9	WCDMA II Ant 2	Back	1.257	5mm	-19.5	-76.8	-3.14	150.3	1.63	0.01
WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184		5mm	-8.4	75.4	1.22				
WLAN5GHz Ant 5+7 WWAN+DBS		0.188		5mm	-33.4	72.8	1.11				
Case 10		WCDMA II Ant 2	Back	1.257	5mm	-19.5	-76.8	-3.14	147.7	1.64	0.01
	WLAN2.4GHz Ant 4+6 WWAN+DBS	0.184		5mm	-8.4	75.4	1.22				
	WLAN6E Ant 5+7	0.196		5mm	-30.6	70.4	0.97				
	Case 11	WCDMA II Ant 2	Back	1.257	5mm	-19.5	-76.8	-3.14	147.7	1.64	0.01
WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184		5mm	-8.4	75.4	1.22				



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA IV Ant 2	Back	1.253	5mm	-20	-75.9	-2.98	151.8	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.379	5mm	-8.4	75.4	1.22				
Case 12	WCDMA IV Ant 2	Back	1.253	5mm	-20	-75.9	-2.98	157.6	1.70	0.01	Not required
	WLAN5GHz Ant 5+7 non DBS		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.068	5mm	-14.6	81.6	-2.85				
Case 13	WCDMA IV Ant 2	Back	1.253	5mm	-20	-75.9	-2.98	119.8	1.67	0.02	Not required
	WLAN5GHz Ant 5+7 DBS only		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				
Case 14	WCDMA IV Ant 2	Back	1.253	5mm	-20	-75.9	-2.98	149.4	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.188	5mm	-33.4	72.8	1.11				
Case 15	WCDMA IV Ant 2	Back	1.253	5mm	-20	-75.9	-2.98	146.7	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN6E Ant 5+7		0.196	5mm	-30.6	70.4	0.97				
Case 16	LTE Band 66 Ant 2	Back	1.24	5mm	-21	-68.9	-3.17	144.9	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.379	5mm	-8.4	75.4	1.22				
Case 17	LTE Band 66 Ant 2	Back	1.24	5mm	-21	-68.9	-3.17	150.6	1.69	0.01	Not required
	WLAN5GHz Ant 5+7 non DBS		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.068	5mm	-14.6	81.6	-2.85				
Case 18	LTE Band 66 Ant 2	Back	1.24	5mm	-21	-68.9	-3.17	112.7	1.66	0.02	Not required
	WLAN5GHz Ant 5+7 DBS only		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				
Case 19	LTE Band 66 Ant 2	Back	1.24	5mm	-21	-68.9	-3.17	142.3	1.61	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.188	5mm	-33.4	72.8	1.11				
Case 20	LTE Band 66 Ant 2	Back	1.24	5mm	-21	-68.9	-3.17	139.7	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN6E Ant 5+7		0.196	5mm	-30.6	70.4	0.97				
Case 21	LTE Band 25 Ant 2	Back	1.247	5mm	-19.5	-76.8	-3.14	152.7	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.379	5mm	-8.4	75.4	1.22				
Case 22	LTE Band 25 Ant 2	Back	1.247	5mm	-19.5	-76.8	-3.14	158.5	1.70	0.01	Not required
	WLAN5GHz Ant 5+7 non DBS		0.382	5mm	-33.4	72.8	1.11				



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	Bluetooth Ant 4		0.068	5mm	-14.6	81.6	-2.85				
Case 23	LTE Band 25 Ant 2	Back	1.247	5mm	-19.5	-76.8	-3.14	120.8	1.67	0.02	Not required
	WLAN5GHz Ant 5+7 DBS only		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				
Case 24	LTE Band 25 Ant 2	Back	1.247	5mm	-19.5	-76.8	-3.14	150.3	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.188	5mm	-33.4	72.8	1.11				
Case 25	LTE Band 25 Ant 2	Back	1.247	5mm	-19.5	-76.8	-3.14	147.7	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN6E Ant 5+7		0.196	5mm	-30.6	70.4	0.97				
Case 26	LTE Band 7 Ant 2	Back	1.245	5mm	-25.4	-73.8	-3.3	150.2	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.379	5mm	-8.4	75.4	1.22				
Case 27	LTE Band 7 Ant 2	Back	1.245	5mm	-25.4	-73.8	-3.3	155.8	1.70	0.01	Not required
	WLAN5GHz Ant 5+7 non DBS		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.068	5mm	-14.6	81.6	-2.85				
Case 28	LTE Band 7 Ant 2	Back	1.245	5mm	-25.4	-73.8	-3.3	117.0	1.67	0.02	Not required
	WLAN5GHz Ant 5+7 DBS only		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				
Case 29	LTE Band 7 Ant 2	Back	1.245	5mm	-25.4	-73.8	-3.3	146.9	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.188	5mm	-33.4	72.8	1.11				
Case 30	LTE Band 7 Ant 2	Back	1.245	5mm	-25.4	-73.8	-3.3	144.4	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN6E Ant 5+7		0.196	5mm	-30.6	70.4	0.97				
Case 31	LTE Band 41 Ant 0	Back	1.253	5mm	22.2	-60	1.27	138.8	1.63	0.02	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.379	5mm	-8.4	75.4	1.22				
Case 32	LTE Band 41 Ant 0	Back	1.253	5mm	22.2	-60	1.27	144.0	1.70	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.068	5mm	-14.6	81.6	-2.85				
Case 33	LTE Band 41 Ant 0	Back	1.253	5mm	22.2	-60	1.27	119.4	1.67	0.02	Not required
	WLAN5GHz Ant 5+7 DBS only		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 34	LTE Band 41 Ant 0	Back	1.253	5mm	22.2	-60	1.27	144.0	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.188	5mm	-33.4	72.8	1.11				
Case 35	LTE Band 41 Ant 0	Back	1.253	5mm	22.2	-60	1.27	138.8	1.63	0.02	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN6E Ant 5+7		0.196	5mm	-30.6	70.4	0.97				
Case 36	FR1 N41 Ant 0	Back	1.238	5mm	21.4	-71.6	1.37	150.0	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.379	5mm	-8.4	75.4	1.22				
Case 37	FR1 N41 Ant 0	Back	1.238	5mm	21.4	-71.6	1.37	144.0	1.69	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.068	5mm	-14.6	81.6	-2.85				
Case 38	FR1 N41 Ant 0	Back	1.238	5mm	21.4	-71.6	1.37	129.1	1.66	0.02	Not required
	WLAN5GHz Ant 5+7 DBS only		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				
Case 39	FR1 N41 Ant 0	Back	1.238	5mm	21.4	-71.6	1.37	154.4	1.61	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.188	5mm	-33.4	72.8	1.11				
Case 40	FR1 N41 Ant 0	Back	1.238	5mm	21.4	-71.6	1.37	150.0	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN6E Ant 5+7		0.196	5mm	-30.6	70.4	0.97				
Case 41	FR1 N77 Ant 9	Back	1.174	5mm	-33	-50.8	1.04	144.0	1.62	0.01	Not required
	WLAN5GHz Ant 5+7 non DBS		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.068	5mm	-14.6	81.6	-2.85				
Case 42	FR1 N7 Ant 2	Back	1.253	5mm	-19.6	-69	1.32	144.8	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.379	5mm	-8.4	75.4	1.22				
Case 43	FR1 N7 Ant 2	Back	1.253	5mm	-19.6	-69	1.32	144.0	1.70	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.068	5mm	-14.6	81.6	-2.85				
Case 44	FR1 N7 Ant 2	Back	1.253	5mm	-19.6	-69	1.32	113.0	1.67	0.02	Not required
	WLAN5GHz Ant 5+7 DBS only		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 45	FR1 N7 Ant 2	Back	1.253	5mm	-19.6	-69	1.32	142.5	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.188	5mm	-33.4	72.8	1.11				
Case 46	FR1 N7 Ant 2	Back	1.253	5mm	-19.6	-69	1.32	139.8	1.63	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN6E Ant 5+7		0.196	5mm	-30.6	70.4	0.97				
Case 47	FR1 N41 Ant 2	Back	1.237	5mm	-20	-71	0.95	146.9	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 non DBS		0.379	5mm	-8.4	75.4	1.22				
Case 48	FR1 N41 Ant 2	Back	1.237	5mm	-20	-71	0.95	144.0	1.69	0.02	Not required
	WLAN5GHz Ant 5+7 non DBS		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 4		0.068	5mm	-14.6	81.6	-2.85				
Case 49	FR1 N41 Ant 2	Back	1.237	5mm	-20	-71	0.95	114.9	1.66	0.02	Not required
	WLAN5GHz Ant 5+7 DBS only		0.382	5mm	-33.4	72.8	1.11				
	Bluetooth Ant 6		0.038	5mm	-39.6	42.2	1.33				
Case 50	FR1 N41 Ant 2	Back	1.237	5mm	-20	-71	0.95	144.4	1.61	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN5GHz Ant 5+7 WWAN+DBS		0.188	5mm	-33.4	72.8	1.11				
Case 51	FR1 N41 Ant 2	Back	1.237	5mm	-20	-71	0.95	141.8	1.62	0.01	Not required
	WLAN2.4GHz Ant 4+6 WWAN+DBS		0.184	5mm	-8.4	75.4	1.22				
	WLAN6E Ant 5+7		0.196	5mm	-30.6	70.4	0.97				

18. Supplemental tuner tests results

General Note:

1. This device implements impedance tuner (144 states) antenna tuning techniques in the LTE Band 5/12/13/17/26, 5GNR n5 for ANT0.
2. This device implements impedance tuner (140 states) antenna tuning techniques in the LTE Band 2/4/5/7/12/13/17/25/26/38/41/66, 5GNR n2 /n7/n38/n41/n66 for ANT1.
3. LTE B38 / B2 / B4 / B5 / B17 SAR test was covered by LTE B41 / B25 / B66 / B26 / B12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
4. 5GNR n38 SAR test was covered by 5GNR n41; according to April 2015 TCB workshop, SAR test for overlapping NR bands can be reduced.
5. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
6. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
7. To evaluate all of the tuner states, the 144 tuner states for ANT0 and the impedance tuner 140 states for ANT1 are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
8. According to April 2019 TCB workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
9. According to April 2019 TCB workshop, if any single point SAR measurement result is > 1.2 W/kg for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination. So we verified the single point SAR that bands with SAR value high than 1.2W/kg.
10. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).
11. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

18.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix F.

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19. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

20. References

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- [14] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

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