



FCC SAR Test Report

Report No. : FA340401-01

	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 3	-	DSI 3	633334	3500.01	Open	16.67	17.90	1.327	-	-	-0.11	0.622	0.826
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 3	-	DSI 3 Simultaneous	633334	3500.01	Open	15.80	17.10	1.349	-	-	-0.01	0.554	0.747
	FR1 n77 Other PA	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 3	-	DSI 3	633334	3500.01	Open	16.60	17.90	1.349	-	-	-0.07	0.575	0.776
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 3	633334	3500.01	Open	16.99	17.90	1.233	-	-	0.03	0.402	0.496
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 3	633334	3500.01	Open	16.74	17.90	1.306	-	-	0.17	0.389	0.508
	FR1 n77_PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 3	-	DSI 3	633334	3500.01	Open	19.76	20.90	1.300	50	1.000	-0.11	0.599	0.779
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 3	-	DSI 4	633334	3500.01	Open	23.92	24.50	1.143	-	-	0.01	0.355	0.406
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	17mm	Ant 3	-	DSI 4	633334	3500.01	Open	23.75	24.50	1.189	-	-	-0.05	0.369	0.439
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Front	17mm	Ant 3	-	DSI 4	633334	3500.01	Open	23.71	24.50	1.199	-	-	0.01	0.401	0.481
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	18mm	Ant 3	-	DSI 4	633334	3500.01	Open	23.92	24.50	1.143	-	-	-0.03	0.092	0.105
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	18mm	Ant 3	-	DSI 4	633334	3500.01	Open	23.75	24.50	1.189	-	-	0.01	0.095	0.113
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	656000	3840	Open	19.55	20.50	1.245	-	-	-0.08	0.397	0.494
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3 Simultaneous	656000	3840	Open	19.01	19.70	1.172	-	-	-0.07	0.324	0.380
	FR1 n77 Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	656000	3840	Open	19.35	20.50	1.303	-	-	-0.1	0.377	0.491
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	656000	3840	Open	19.45	20.50	1.274	-	-	-0.08	0.314	0.400
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	Open	19.55	20.50	1.245	-	-	0.09	0.268	0.334
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	Open	19.45	20.50	1.274	-	-	0.02	0.286	0.364
	FR1 n77_PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	656000	3840	Open	22.45	23.50	1.274	50	1.000	0.05	0.384	0.489
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 5	-	DSI 4	656000	3840	Open	24.48	25.00	1.127	-	-	0.06	0.401	0.452
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	18mm	Ant 5	-	DSI 4	656000	3840	Open	24.48	25.00	1.127	-	-	-0.05	0.088	0.099
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	18mm	Ant 5	-	DSI 4	656000	3840	Open	24.45	25.00	1.135	-	-	0.01	0.091	0.103
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	633334	3500.01	Open	19.35	20.50	1.303	-	-	-0.02	0.703	0.916
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3 Simultaneous	633334	3500.01	Open	18.73	19.70	1.250	-	-	-0.07	0.627	0.784
	FR1 n77 Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	633334	3500.01	Open	19.16	20.50	1.361	-	-	0.09	0.671	0.914
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	633334	3500.01	Open	19.29	20.50	1.321	-	-	0.04	0.683	0.902
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	633334	3500.01	Open	19.27	20.50	1.327	-	-	0.12	0.525	0.697
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633334	3500.01	Open	19.35	20.50	1.303	-	-	0.15	0.639	0.833
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633334	3500.01	Open	19.29	20.50	1.321	-	-	0.03	0.451	0.596
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633334	3500.01	Open	19.27	20.50	1.327	-	-	0.02	0.498	0.661
	FR1 n77_PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	633334	3500.01	Open	22.32	23.50	1.312	50	1.000	-0.02	0.685	0.899
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	17mm	Ant 5	-	DSI 4	633334	3500.01	Open	24.45	25.00	1.135	-	-	0.01	0.105	0.119
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	18mm	Ant 5	-	DSI 4	633334	3500.01	Open	24.45	25.00	1.135	-	-	-0.08	0.095	0.108



<Flip close>

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Power State, Ch., Freq. (MHz), EUT Flip State, 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). Includes a '750MHz' section and a highlighted cell with value 0.963.



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Table with columns for radio technology (e.g., WCDMA IV, LTE Band 66), modulation (QPSK), data rate (RMC 12.2Kbps), antenna position (Front/Back), antenna type (Ant 0-3), power spectral density (DSI 4-5), frequency (MHz), power (dBm), and SAR exposure metrics (Close, and various SAR values).



FCC SAR Test Report

Report No. : FA340401-01

Table with 25 columns containing test parameters like Band, Power, Modulation, Frequency, SAR values, etc.



FCC SAR Test Report

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Table with columns: Band, Power, Modulation, Frequency, Channel, Direction, Antenna, Antenna Type, Antenna Position, Mode, Frequency, Power, Status, E1, E2, E3, E4, E5, E6, E7, E8, E9, E10. Rows include LTE Bands 41 and FR1 n7 configurations.



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Table with columns for Band, Power, Modulation, Frequency, Duty Cycle, Exposure Duration, Distance, Antenna, Exposure Type, SAR Level, and SAR Weighting. Includes rows for LTE Bands 48 and 48C, and FR1 n48.



Table with columns: Device ID, Power, Modulation, Frequency, Duty Cycle, Bandwidth, Direction, Antenna, Antenna Size, Antenna Type, Power Density, Power Flux Density, SAR, etc.



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	Bluetooth	1Mbps	Front	5mm	Ant 4	Standalone	39	2441	Close	17.51	18.50	1.256	76.72	1.086	-0.17	0.190	0.259
	Bluetooth	1Mbps	Back	5mm	Ant 4	Standalone	39	2441	Close	17.51	18.50	1.256	76.72	1.086	0.09	0.094	0.128
	Bluetooth	1Mbps	Front	5mm	Ant 6	Standalone	0	2402	Close	16.48	17.50	1.264	76.86	1.084	0.09	0.177	0.242
	Bluetooth	1Mbps	Back	5mm	Ant 6	Standalone	0	2402	Close	16.48	17.50	1.264	76.86	1.084	0.03	0.001	0.001
	WLAN 5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	Standalone	58	5290	Close	18.90	20.50	1.445	100	1.000	-0.08	0.231	0.334
	WLAN 5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	Standalone	58	5290	Close	18.90	20.50	1.445	100	1.000	0.01	0.191	0.276
	WLAN 5.3GHz	802.11n-HT40 MCS0	Front	14mm	Ant 5+4(4)	Standalone	54	5270	Close	19.16	21.00	1.528	100	1.000	0.04	0.065	0.099
	WLAN 5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+4(4)	Standalone	54	5270	Close	19.16	21.00	1.528	100	1.000	0.07	0.059	0.090
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	Standalone	138	5690	Close	18.62	19.50	1.225	100	1.000	0.03	0.516	0.632
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	Standalone	106	5530	Close	18.69	19.50	1.205	100	1.000	0.01	0.394	0.475
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(4)	Standalone	122	5610	Close	17.52	18.50	1.253	100	1.000	0.05	0.336	0.421
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	Standalone	138	5690	Close	18.62	19.50	1.225	100	1.000	0.03	0.141	0.173
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	DBS only	138	5690	Close	15.82	17.50	1.472	100	1.000	0.09	0.350	0.515
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	DBS only	138	5690	Close	15.82	17.50	1.472	100	1.000	0.02	0.090	0.133
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	non DBS Simultaneous	138	5690	Close	12.82	14.50	1.472	100	1.000	0.01	0.165	0.243
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	non DBS Simultaneous	138	5690	Close	12.82	14.50	1.472	100	1.000	0.09	0.035	0.052
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	DBS Simultaneous	138	5690	Close	9.58	11.50	1.556	100	1.000	0.05	0.072	0.112
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	DBS Simultaneous	138	5690	Close	9.58	11.50	1.556	100	1.000	0.05	0.007	0.011
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Front	14mm	Ant 5+4(5)	Full power	138	5690	Close	19.86	21.50	1.459	100	1.000	0.03	0.233	0.340
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 5+4(5)	Full power	138	5690	Close	19.86	21.50	1.459	100	1.000	0.01	0.102	0.149
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(4)	Standalone	155	5775	Close	18.01	19.00	1.256	100	1.000	-0.1	0.736	0.924
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	Standalone	155	5775	Close	18.01	19.00	1.256	100	1.000	0.08	0.139	0.175
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	DBS only	155	5775	Close	17.37	18.00	1.156	100	1.000	0.02	0.549	0.635
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	DBS only	155	5775	Close	17.37	18.00	1.156	100	1.000	0.06	0.077	0.089
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	non DBS Simultaneous	155	5775	Close	14.47	15.00	1.130	100	1.000	-0.02	0.240	0.271
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	non DBS Simultaneous	155	5775	Close	14.47	15.00	1.130	100	1.000	0.04	0.028	0.032
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	DBS Simultaneous	155	5775	Close	11.47	12.00	1.130	100	1.000	0.09	0.110	0.124
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	DBS Simultaneous	155	5775	Close	11.47	12.00	1.130	100	1.000	-0.02	0.004	0.005
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Front	14mm	Ant 5+4(4)	Standalone	155	5775	Close	18.73	20.00	1.340	100	1.000	0.05	0.375	0.502
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 5+4(4)	Standalone	155	5775	Close	18.73	20.00	1.340	100	1.000	-0.04	0.101	0.135



16.4 Product specific 10g SAR

<Flip open>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	EUT Flip State	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)
750MHz																					
102	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	133322	683	Open	22.91	24.00	1.285	-	-	0.04	2.330	2.995
	LTE Band 71	20M	QPSK	50	24	-	Bottom Side	0mm	Ant 0	DSI 6	133322	683	Open	22.74	24.00	1.337	-	-	0.04	2.020	2.700
	LTE Band 71	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	133322	683	Open	22.79	24.00	1.321	-	-	0.06	2.080	2.748
	LTE Band 71	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	133322	683	Open	23.02	24.00	1.253	-	-	-0.13	1.100	1.378
	LTE Band 71	20M	QPSK	50	24	-	Back	0mm	Ant 1	DSI 6	133322	683	Open	22.89	24.00	1.291	-	-	0.02	0.974	1.258
	LTE Band 71	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	133322	683	Open	23.02	24.00	1.253	-	-	0.03	1.940	2.431
	LTE Band 71	20M	QPSK	50	24	-	Left Side	0mm	Ant 1	DSI 6	133322	683	Open	22.89	24.00	1.291	-	-	0.03	1.650	2.131
	LTE Band 71	20M	QPSK	100	0	-	Left Side	0mm	Ant 1	DSI 6	133322	683	Open	22.93	24.00	1.279	-	-	0.06	1.680	2.149
	LTE Band 12	10M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	23095	707.5	Open	22.65	24.00	1.365	-	-	0.05	1.160	1.583
	LTE Band 12	10M	QPSK	25	0	-	Front	0mm	Ant 1	DSI 6	23095	707.5	Open	22.61	24.00	1.377	-	-	0.08	1.070	1.474
	LTE Band 12	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	23095	707.5	Open	22.65	24.00	1.365	-	-	-0.08	1.270	1.733
	LTE Band 12	10M	QPSK	25	0	-	Back	0mm	Ant 1	DSI 6	23095	707.5	Open	22.61	24.00	1.377	-	-	0.03	1.070	1.474
103	LTE Band 12	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	23095	707.5	Open	22.65	24.00	1.365	-	-	0.02	1.790	2.443
	LTE Band 12	10M	QPSK	25	0	-	Left Side	0mm	Ant 1	DSI 6	23095	707.5	Open	22.61	24.00	1.377	-	-	0.12	1.520	2.093
	LTE Band 12	10M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	23095	707.5	Open	22.59	24.00	1.384	-	-	0.11	1.510	2.089
	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	23230	782	Open	22.76	23.70	1.242	-	-	0.05	1.880	2.334
	LTE Band 13	10M	QPSK	25	0	-	Back	0mm	Ant 0	DSI 6	23230	782	Open	22.71	23.70	1.256	-	-	-0.06	1.740	2.185
	LTE Band 13	10M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	23230	782	Open	22.63	23.70	1.279	-	-	0.05	1.600	2.047
104	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	23230	782	Open	22.76	23.70	1.242	-	-	0.02	2.530	3.141
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 6	23230	782	Open	22.71	23.70	1.256	-	-	0.04	2.180	2.738
	LTE Band 13	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	23230	782	Open	22.63	23.70	1.279	-	-	-0.06	2.160	2.763
	LTE Band 13	10M	QPSK	1	0	-	Back	6mm	Ant 0	DSI 4	23230	782	Open	22.76	24.00	1.330	-	-	0.02	0.127	0.169
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	11mm	Ant 0	DSI 4	23230	782	Open	22.76	24.00	1.330	-	-	0.01	0.255	0.339
	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	23230	782	Open	22.63	24.00	1.371	-	-	-0.01	1.490	2.043
	LTE Band 13	10M	QPSK	25	0	-	Back	0mm	Ant 1	DSI 6	23230	782	Open	22.56	24.00	1.393	-	-	0.07	1.290	1.797
	LTE Band 13	10M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	23230	782	Open	22.50	24.00	1.413	-	-	0.04	1.300	1.836
	LTE Band 13	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	23230	782	Open	22.63	24.00	1.371	-	-	-0.19	0.583	0.799
	LTE Band 13	10M	QPSK	25	0	-	Left Side	0mm	Ant 1	DSI 6	23230	782	Open	22.56	24.00	1.393	-	-	-0.12	0.531	0.740
105	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	23330	793	Open	22.83	24.00	1.309	-	-	-0.06	2.300	3.011
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 6	23330	793	Open	22.78	24.00	1.324	-	-	0.1	1.930	2.556
	LTE Band 14	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	23330	793	Open	22.72	24.00	1.343	-	-	-0.08	1.910	2.565
	LTE Band 14	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	23330	793	Open	22.65	24.00	1.365	-	-	-0.05	1.460	1.992
	LTE Band 14	10M	QPSK	25	0	-	Back	0mm	Ant 1	DSI 6	23330	793	Open	22.61	24.00	1.377	-	-	0.09	1.220	1.680
	LTE Band 14	10M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	23330	793	Open	22.59	24.00	1.384	-	-	-0.08	1.200	1.660
	LTE Band 14	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	23330	793	Open	22.65	24.00	1.365	-	-	-0.1	0.622	0.849
	LTE Band 14	10M	QPSK	25	0	-	Left Side	0mm	Ant 1	DSI 6	23330	793	Open	22.61	24.00	1.377	-	-	0.07	0.530	0.730
	LTE Band 14	10M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	23330	793	Open	22.59	24.00	1.384	-	-	0.02	0.528	0.731
106	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	141500	707.5	Open	23.50	24.00	1.122	-	-	-0.03	0.808	0.907
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	141500	707.5	Open	23.41	24.00	1.146	-	-	0.04	0.734	0.841
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	141500	707.5	Open	23.50	24.00	1.122	-	-	0.06	0.480	0.539
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	141500	707.5	Open	23.41	24.00	1.146	-	-	-0.07	0.375	0.430
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	158600	793	Open	23.56	24.00	1.107	-	-	0.02	0.768	0.850
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	158600	793	Open	23.37	24.00	1.156	-	-	-0.14	0.695	0.803
107	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	158600	793	Open	23.56	24.00	1.107	-	-	-0.06	0.951	1.052
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	158600	793	Open	23.37	24.00	1.156	-	-	-0.09	0.863	0.998
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	158600	793	Open	23.56	24.00	1.107	-	-	-0.04	0.511	0.565
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	158600	793	Open	23.37	24.00	1.156	-	-	0.05	0.476	0.550
835MHz																					
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	251	848.8	Open	28.16	29.50	1.361	-	-	0.05	1.040	1.416



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108	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	251	848.8	Open	28.16	29.50	1.361	-	-	0.05	1.330	1.811
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 1	DSI 6	189	836.4	Open	28.31	29.50	1.315	-	-	-0.14	1.060	1.394
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Left Side	0mm	Ant 1	DSI 6	189	836.4	Open	28.31	29.50	1.315	-	-	-0.03	0.298	0.392
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4182	836.4	Open	24.39	25.00	1.151	-	-	-0.03	0.957	1.101
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	4182	836.4	Open	24.39	25.00	1.151	-	-	0.03	1.260	1.450
109	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	4182	836.4	Open	24.41	25.00	1.146	-	-	-0.12	1.510	1.730
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	4182	836.4	Open	24.41	25.00	1.146	-	-	0.07	0.923	1.057
110	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	Open	22.68	24.00	1.355	-	-	0.16	1.700	2.304
	LTE Band 5B	10M	QPSK	1	49	-	Bottom Side	0mm	Ant 0	DSI 6	20476+ 20575	831.6+ 841.5	Open	22.45	24.00	1.429	-	-	0.04	1.320	1.886
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	Open	22.64	24.00	1.368	-	-	0.05	1.490	2.038
	LTE Band 26	15M	QPSK	75	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	Open	22.61	24.00	1.377	-	-	0.06	1.170	1.611
	LTE Band 26	15M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	26865	831.5	Open	22.79	24.00	1.321	-	-	0.18	1.440	1.903
	LTE Band 26	15M	QPSK	36	0	-	Front	0mm	Ant 1	DSI 6	26865	831.5	Open	22.62	24.00	1.374	-	-	0.08	1.290	1.773
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	26865	831.5	Open	22.79	24.00	1.321	-	-	-0.07	1.400	1.850
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 1	DSI 6	26865	831.5	Open	22.62	24.00	1.374	-	-	0.03	1.220	1.676
	LTE Band 26	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	26865	831.5	Open	22.79	24.00	1.321	-	-	0.04	1.710	2.259
	LTE Band 5B	10M	QPSK	1	49	-	Left Side	0mm	Ant 1	DSI 6	20476+ 20575	831.6+ 841.5	Open	22.35	24.00	1.462	-	-	0.07	1.420	2.076
	LTE Band 26	15M	QPSK	36	0	-	Left Side	0mm	Ant 1	DSI 6	26865	831.5	Open	22.62	24.00	1.374	-	-	0.11	1.460	2.006
	LTE Band 26	15M	QPSK	75	0	-	Left Side	0mm	Ant 1	DSI 6	26865	831.5	Open	22.58	24.00	1.387	-	-	-0.12	1.470	2.039
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	166300	831.5	Open	23.39	24.00	1.151	-	-	0.14	0.841	0.968
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	166300	831.5	Open	23.29	24.00	1.178	-	-	-0.09	0.789	0.929
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	166300	831.5	Open	23.39	24.00	1.151	-	-	0.1	1.060	1.220
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	166300	831.5	Open	23.29	24.00	1.178	-	-	-0.03	0.905	1.066
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	166300	831.5	Open	23.49	24.00	1.125	-	-	0.08	1.100	1.237
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	166300	831.5	Open	23.42	24.00	1.143	-	-	0.08	1.020	1.166
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	166300	831.5	Open	23.49	24.00	1.125	-	-	0.1	1.150	1.293
111	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	166300	831.5	Open	23.42	24.00	1.143	-	-	-0.07	1.170	1.337
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	166300	831.5	Open	23.49	24.00	1.125	-	-	-0.03	0.621	0.698
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	166300	831.5	Open	23.42	24.00	1.143	-	-	-0.07	0.572	0.654
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1413	1732.6	Open	22.89	24.00	1.291	-	-	-0.14	1.440	1.859
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1312	1712.4	Open	22.77	24.00	1.327	-	-	0.06	1.470	1.951
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1513	1752.6	Open	22.81	24.00	1.315	-	-	0.06	1.570	2.065
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1413	1732.6	Open	22.89	24.00	1.291	-	-	-0.16	2.020	2.608
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1312	1712.4	Open	22.77	24.00	1.327	-	-	0.03	2.000	2.655
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1513	1752.6	Open	22.81	24.00	1.315	-	-	-0.19	2.010	2.644
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1413	1732.6	Open	22.89	24.00	1.291	-	-	-0.03	1.970	2.544
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1312	1712.4	Open	22.77	24.00	1.327	-	-	0.14	1.950	2.588
112	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1513	1752.6	Open	22.81	24.00	1.315	-	-	0.02	2.180	2.867
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1413	1732.6	Open	20.48	21.80	1.355	-	-	0.1	1.580	2.141
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1312	1712.4	Open	20.39	21.80	1.384	-	-	0.05	1.540	2.131
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1513	1752.6	Open	20.42	21.80	1.374	-	-	0.03	1.810	2.487
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1413	1732.6	Open	20.48	21.80	1.355	-	-	0.04	1.290	1.748
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	1413	1732.6	Open	20.48	21.80	1.355	-	-	0.16	0.826	1.119
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	8mm	Ant 1	DSI 4	1413	1732.6	Open	22.42	24.00	1.439	-	-	0.03	0.299	0.430
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	8mm	Ant 1	DSI 4	1413	1732.6	Open	22.42	24.00	1.439	-	-	-0.19	0.411	0.591
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	13mm	Ant 1	DSI 4	1413	1732.6	Open	22.42	24.00	1.439	-	-	0.08	0.027	0.039
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	1413	1732.6	Open	23.30	24.00	1.175	-	-	0.02	1.250	1.469
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1413	1732.6	Open	23.30	24.00	1.175	-	-	0.09	1.710	2.009
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1312	1712.4	Open	23.26	24.00	1.186	-	-	0.05	1.680	1.992
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1513	1752.6	Open	23.15	24.00	1.216	-	-	0.14	1.740	2.116
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	1413	1732.6	Open	23.30	24.00	1.175	-	-	0.08	1.710	2.009
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	1312	1712.4	Open	23.26	24.00	1.186	-	-	0.05	1.660	1.968
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	1513	1752.6	Open	23.15	24.00	1.216	-	-	0.03	1.760	2.140
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 3	DSI 6	1413	1732.6	Open	22.18	23.30	1.294	-	-	0.07	1.690	2.187



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Table with columns for Modulation, Power, Frequency, Location, etc. Row 113 is highlighted in yellow.



	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	132322	1745	Open	21.79	23.00	1.321	-	-	0.07	1.570	2.074
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	132322	1745	Open	21.93	23.00	1.279	-	-	0.02	1.690	2.162
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	132072	1720	Open	21.89	23.00	1.291	-	-	-0.12	1.650	2.131
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	132572	1770	Open	21.76	23.00	1.330	-	-	-0.18	1.520	2.022
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	132322	1745	Open	21.85	23.00	1.303	-	-	0.04	1.450	1.890
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	132072	1720	Open	21.80	23.00	1.318	-	-	-0.12	1.460	1.925
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	132572	1770	Open	21.70	23.00	1.349	-	-	0.04	1.400	1.889
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI 6	132322	1745	Open	21.79	23.00	1.321	-	-	0.08	1.440	1.903
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	132572	1770	Open	23.03	24.00	1.250	-	-	0.06	1.290	1.613
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	132322	1745	Open	21.85	23.00	1.303	-	-	-0.05	1.900	2.476
	LTE Band 66C	20M	QPSK	1	99	-	Front	0mm	Ant 3	DSI 6	132322+ 132520	1745+ 1764.8	Open	21.44	23.00	1.432	-	-	0.05	1.650	2.363
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	132072	1720	Open	21.62	23.00	1.374	-	-	0.13	1.750	2.405
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	132572	1770	Open	21.71	23.00	1.346	-	-	0.08	1.610	2.167
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 6	132322	1745	Open	21.76	23.00	1.330	-	-	-0.17	1.650	2.195
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 6	132072	1720	Open	21.56	23.00	1.393	-	-	0.14	1.660	2.313
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 6	132572	1770	Open	21.63	23.00	1.371	-	-	0.06	1.490	2.043
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 3	DSI 6	132322	1745	Open	21.57	23.00	1.390	-	-	0.05	1.600	2.224
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 6	132322	1745	Open	21.85	23.00	1.303	-	-	0.17	1.690	2.202
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 6	132072	1720	Open	21.62	23.00	1.374	-	-	0.15	1.630	2.240
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 6	132572	1770	Open	21.71	23.00	1.346	-	-	0.08	1.270	1.709
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 3	DSI 6	132322	1745	Open	21.76	23.00	1.330	-	-	-0.03	1.490	1.982
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 3	DSI 6	132322	1745	Open	21.57	23.00	1.390	-	-	0.07	1.460	2.029
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	132322	1745	Open	21.85	23.00	1.303	-	-	0.09	1.830	2.385
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	132072	1720	Open	21.62	23.00	1.374	-	-	0.09	1.270	1.745
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	132572	1770	Open	21.71	23.00	1.346	-	-	0.05	1.340	1.803
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	132322	1745	Open	21.76	23.00	1.330	-	-	0.06	1.540	2.049
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	132072	1720	Open	21.56	23.00	1.393	-	-	0.13	1.530	2.132
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	132572	1770	Open	21.63	23.00	1.371	-	-	0.13	1.610	2.207
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 3	DSI 6	132322	1745	Open	21.57	23.00	1.390	-	-	0.02	1.540	2.141
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	132322	1745	Open	21.83	23.00	1.309	-	-	0.09	1.520	1.990
	LTE Band 66	20M	QPSK	1	0	-	Front	9mm	Ant 3	DSI 4	132322	1745	Open	22.74	24.00	1.337	-	-	0.03	0.142	0.190
	LTE Band 66	20M	QPSK	1	0	-	Back	4mm	Ant 3	DSI 4	132322	1745	Open	22.74	24.00	1.337	-	-	0.12	0.511	0.683
	LTE Band 66	20M	QPSK	1	0	-	Top Side	9mm	Ant 3	DSI 4	132322	1745	Open	22.74	24.00	1.337	-	-	0.07	0.288	0.385
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	349000	1745	Open	23.04	24.00	1.247	-	-	0.05	1.670	2.083
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	349000	1745	Open	23.03	24.00	1.250	-	-	0.02	1.780	2.225
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	349000	1745	Open	22.68	24.00	1.355	-	-	0.18	1.790	2.426
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	349000	1745	Open	23.04	24.00	1.247	-	-	0.03	2.170	2.707
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	349000	1745	Open	23.03	24.00	1.250	-	-	0.04	2.300	2.876
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	349000	1745	Open	22.68	24.00	1.355	-	-	0.05	2.180	2.954
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	Open	23.04	24.00	1.247	-	-	-0.09	2.340	2.919
114	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	Open	23.03	24.00	1.250	-	-	-0.04	2.480	3.101
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	Open	22.68	24.00	1.355	-	-	0.15	2.210	2.995
	FR1 n66 Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	Open	22.43	23.00	1.140	-	-	0.12	1.270	1.448
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	Open	20.63	21.50	1.222	-	-	0.06	1.720	2.101
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	Open	20.44	21.50	1.276	-	-	0.09	1.920	2.451
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	Open	20.42	21.50	1.282	-	-	0.01	1.810	2.321
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	Open	20.63	21.50	1.222	-	-	0.14	1.360	1.662
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	Open	20.44	21.50	1.276	-	-	0.14	1.520	1.940
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	349000	1745	Open	20.63	21.50	1.222	-	-	-0.13	0.970	1.185
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	349000	1745	Open	20.44	21.50	1.276	-	-	-0.1	0.910	1.162
	FR1 n66 Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	Open	20.42	21.50	1.282	-	-	-0.14	1.350	1.731
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	8mm	Ant 1	DSI 4	349000	1745	Open	23.08	24.00	1.236	-	-	0.01	0.687	0.849
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	8mm	Ant 1	DSI 4	349000	1745	Open	22.98	24.00	1.265	-	-	0.03	0.712	0.900
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	8mm	Ant 1	DSI 4	349000	1745	Open	23.08	24.00	1.236	-	-	0.03	0.701	0.866
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	8mm	Ant 1	DSI 4	349000	1745	Open	22.98	24.00	1.265	-	-	0.04	0.722	0.913



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	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	13mm	Ant 1	DSI 4	349000	1745	Open	23.08	24.00	1.236	-	-	-0.07	0.645	0.797
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	349000	1745	Open	23.03	24.00	1.250	-	-	-0.18	1.840	2.300
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	349000	1745	Open	22.92	24.00	1.282	-	-	0.06	1.750	2.244
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	349000	1745	Open	22.86	24.00	1.300	-	-	0.01	1.530	1.989
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	349000	1745	Open	23.03	24.00	1.250	-	-	0.09	2.250	2.813
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	349000	1745	Open	22.92	24.00	1.282	-	-	-0.07	2.120	2.719
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	349000	1745	Open	22.86	24.00	1.300	-	-	0.03	1.960	2.548
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	349000	1745	Open	23.03	24.00	1.250	-	-	-0.18	1.810	2.263
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	349000	1745	Open	22.92	24.00	1.282	-	-	0.07	1.890	2.424
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	349000	1745	Open	22.86	24.00	1.300	-	-	0.03	1.680	2.184
	FR1 n66 Main PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	349000	1745	Open	22.14	24.00	1.535	-	-	-0.13	1.350	2.072
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSI 6	349000	1745	Open	21.57	22.60	1.268	-	-	-0.18	1.940	2.459
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSI 6	349000	1745	Open	21.45	22.60	1.303	-	-	0.01	1.880	2.450
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSI 6	349000	1745	Open	21.38	22.60	1.324	-	-	-0.12	1.750	2.318
	FR1 n66 Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSI 6	349000	1745	Open	21.35	22.60	1.334	-	-	0.06	1.070	1.427
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	9mm	Ant 3	DSI 4	349000	1745	Open	23.10	24.00	1.230	-	-	0.06	0.555	0.683
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	340500	1702.5	Open	21.91	23.00	1.285	-	-	0.01	1.260	1.619
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	340500	1702.5	Open	21.81	23.00	1.315	-	-	0.01	1.500	1.973
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	340500	1702.5	Open	20.13	21.10	1.250	-	-	0.17	1.400	1.750
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	340500	1702.5	Open	20.02	21.10	1.282	-	-	0.08	1.880	2.411
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	340500	1702.5	Open	20.01	21.10	1.285	-	-	0.17	1.730	2.224
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	340500	1702.5	Open	20.13	21.10	1.250	-	-	-0.11	1.560	1.950
115	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	340500	1702.5	Open	20.02	21.10	1.282	-	-	0.09	1.930	2.475
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	340500	1702.5	Open	20.01	21.10	1.285	-	-	0.07	1.540	1.979
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	8mm	Ant 1	DSI 4	340500	1702.5	Open	21.16	22.00	1.213	-	-	0.06	0.655	0.795
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	8mm	Ant 1	DSI 4	340500	1702.5	Open	21.06	22.00	1.242	-	-	0.01	0.684	0.849
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	13mm	Ant 1	DSI 4	340500	1702.5	Open	21.16	22.00	1.213	-	-	0.06	0.692	0.840
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	13mm	Ant 1	DSI 4	340500	1702.5	Open	21.06	22.00	1.242	-	-	-0.11	0.701	0.870
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	340500	1702.5	Open	22.29	23.00	1.178	-	-	0.13	1.430	1.684
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	340500	1702.5	Open	22.23	23.00	1.194	-	-	0.01	1.710	2.042
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	340500	1702.5	Open	22.20	23.00	1.202	-	-	0.05	1.550	1.864
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	340500	1702.5	Open	22.29	23.00	1.178	-	-	0.06	1.150	1.354
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	340500	1702.5	Open	22.23	23.00	1.194	-	-	0.13	1.560	1.863
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSI 6	340500	1702.5	Open	21.76	22.60	1.213	-	-	-0.15	1.350	1.638
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSI 6	340500	1702.5	Open	21.58	22.60	1.265	-	-	0.07	1.940	2.454
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSI 6	340500	1702.5	Open	21.54	22.60	1.276	-	-	0.05	1.920	2.451
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	9mm	Ant 3	DSI 4	340500	1702.5	Open	23.23	24.00	1.194	-	-	0.03	0.456	0.544
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	9mm	Ant 3	DSI 4	340500	1702.5	Open	23.13	24.00	1.222	-	-	-0.02	0.502	0.613
1900MHz																					
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 0	DSI 6	661	1880	Open	26.21	27.00	1.199	-	-	0.02	1.070	1.283
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	661	1880	Open	26.21	27.00	1.199	-	-	0.06	1.540	1.847
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	661	1880	Open	26.21	27.00	1.199	-	-	0.02	1.430	1.715
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 1	DSI 6	661	1880	Open	25.69	26.50	1.205	-	-	-0.11	1.630	1.964
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 1	DSI 6	512	1850.2	Open	25.65	26.50	1.216	-	-	0.04	1.800	2.189
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 1	DSI 6	810	1909.8	Open	25.43	26.50	1.279	-	-	0.08	1.640	2.098
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 1	DSI 6	661	1880	Open	25.69	26.50	1.205	-	-	-0.02	1.700	2.049
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 1	DSI 6	512	1850.2	Open	25.65	26.50	1.216	-	-	0.03	1.380	1.678
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 1	DSI 6	810	1909.8	Open	25.43	26.50	1.279	-	-	0.04	1.580	2.021
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Left Side	0mm	Ant 1	DSI 6	661	1880	Open	25.69	26.50	1.205	-	-	-0.03	0.640	0.771
116	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 3	DSI 6	661	1880	Open	27.12	28.30	1.312	-	-	-0.07	1.880	2.467
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 3	DSI 6	512	1850.2	Open	27.05	28.30	1.334	-	-	0.06	1.450	1.934
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 3	DSI 6	810	1909.8	Open	27.08	28.30	1.324	-	-	0.08	1.760	2.331
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 3	DSI 6	661	1880	Open	27.12	28.30	1.312	-	-	0.1	1.370	1.798
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Top Side	0mm	Ant 3	DSI 6	661	1880	Open	27.12	28.30	1.312	-	-	0.02	1.730	2.270
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Top Side	0mm	Ant 3	DSI 6	512	1850.2	Open	27.05	28.30	1.334	-	-	0.09	1.710	2.280
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Top Side	0mm	Ant 3	DSI 6	810	1909.8	Open	27.08	28.30	1.324	-	-	0.06	1.830	2.424



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Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	9mm	Ant 3	DSI 4	661	1880	Open	27.12	28.50	1.374	-	-	0.03	0.546	0.750
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	4mm	Ant 3	DSI 4	661	1880	Open	27.12	28.50	1.374	-	-	0.02	0.895	1.230
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Top Side	9mm	Ant 3	DSI 4	661	1880	Open	27.12	28.50	1.374	-	-	0.01	0.350	0.481
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	9400	1880	Open	20.82	22.20	1.374	-	-	0.01	1.390	1.910
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9400	1880	Open	20.82	22.20	1.374	-	-	-0.07	2.020	2.776
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9262	1852.4	Open	20.62	22.20	1.439	-	-	0.1	1.710	2.460
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9538	1907.6	Open	20.75	22.20	1.396	-	-	0.05	2.020	2.821
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9400	1880	Open	20.82	22.20	1.374	-	-	0.01	2.210	3.037
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9262	1852.4	Open	20.62	22.20	1.439	-	-	-0.13	1.990	2.863
117	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9538	1907.6	Open	20.75	22.20	1.396	-	-	0.08	2.280	3.184
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 0	DSI 4	9400	1880	Open	22.82	24.00	1.312	-	-	0.02	0.425	0.558
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	6mm	Ant 0	DSI 4	9400	1880	Open	22.82	24.00	1.312	-	-	-0.13	0.562	0.737
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	11mm	Ant 0	DSI 4	9400	1880	Open	22.82	24.00	1.312	-	-	0.01	0.402	0.528
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9400	1880	Open	21.66	22.70	1.271	-	-	0.07	1.630	2.071
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9262	1852.4	Open	21.58	22.70	1.294	-	-	0.12	1.910	2.472
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9538	1907.6	Open	21.46	22.70	1.330	-	-	0.03	1.770	2.355
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9400	1880	Open	21.66	22.70	1.271	-	-	0.09	1.840	2.338
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9262	1852.4	Open	21.58	22.70	1.294	-	-	0.03	1.710	2.213
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9538	1907.6	Open	21.46	22.70	1.330	-	-	0.03	1.400	1.863
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	9400	1880	Open	21.66	22.70	1.271	-	-	0.09	0.665	0.845
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	8mm	Ant 1	DSI 4	9400	1880	Open	22.49	24.00	1.416	-	-	0.01	0.412	0.583
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	8mm	Ant 1	DSI 4	9400	1880	Open	22.49	24.00	1.416	-	-	-0.06	0.455	0.644
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	13mm	Ant 1	DSI 4	9400	1880	Open	22.49	24.00	1.416	-	-	0.02	0.566	0.801
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	9400	1880	Open	23.27	24.00	1.183	-	-	-0.15	1.540	1.822
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9400	1880	Open	23.27	24.00	1.183	-	-	-0.1	1.930	2.283
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9262	1852.4	Open	23.16	24.00	1.213	-	-	0.03	1.960	2.378
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9538	1907.6	Open	23.24	24.00	1.191	-	-	0.06	2.010	2.394
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	9400	1880	Open	23.27	24.00	1.183	-	-	0.11	1.490	1.763
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 3	DSI 6	9400	1880	Open	22.25	23.40	1.303	-	-	0.03	1.760	2.294
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 3	DSI 6	9262	1852.4	Open	22.03	23.40	1.371	-	-	0.09	1.750	2.399
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 3	DSI 6	9538	1907.6	Open	22.17	23.40	1.327	-	-	0.02	1.840	2.442
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 3	DSI 6	9400	1880	Open	22.25	23.40	1.303	-	-	0.18	1.470	1.916
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 6	9400	1880	Open	22.25	23.40	1.303	-	-	-0.09	1.740	2.268
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 6	9262	1852.4	Open	22.03	23.40	1.371	-	-	0.03	1.690	2.317
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 6	9538	1907.6	Open	22.17	23.40	1.327	-	-	0.04	1.570	2.084
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 3	DSI 4	9400	1880	Open	24.00	25.00	1.259	-	-	0.02	0.255	0.321
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	4mm	Ant 3	DSI 4	9400	1880	Open	24.00	25.00	1.259	-	-	-0.11	0.512	0.645
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	9mm	Ant 3	DSI 4	9400	1880	Open	24.00	25.00	1.259	-	-	0.05	0.413	0.520
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	26340	1880	Open	23.45	24.00	1.135	-	-	-0.05	1.860	2.111
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	26140	1860	Open	23.35	24.00	1.161	-	-	0.12	1.560	1.812
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	26590	1905	Open	23.41	24.00	1.146	-	-	0.08	1.600	1.833
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	26340	1880	Open	23.37	24.00	1.156	-	-	-0.02	1.590	1.838
	LTE Band 25	20M	QPSK	100	0	-	Front	0mm	Ant 0	DSI 6	26340	1880	Open	23.32	24.00	1.169	-	-	0.04	1.600	1.871
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	Open	23.45	24.00	1.135	-	-	0.18	2.300	2.611
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26140	1860	Open	23.35	24.00	1.161	-	-	0.03	2.010	2.335
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26590	1905	Open	23.41	24.00	1.146	-	-	-0.05	2.170	2.486
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	Open	23.37	24.00	1.156	-	-	-0.15	2.120	2.451
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	26140	1860	Open	23.31	24.00	1.172	-	-	0.03	1.100	1.289
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	26590	1905	Open	23.26	24.00	1.186	-	-	-0.09	1.820	2.158
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	Open	23.32	24.00	1.169	-	-	0.01	2.070	2.421
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26340	1880	Open	23.45	24.00	1.135	-	-	0.03	1.970	2.236
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26140	1860	Open	23.35	24.00	1.161	-	-	-0.13	1.570	1.823
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26590	1905	Open	23.41	24.00	1.146	-	-	0.01	1.910	2.188
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	26340	1880	Open	23.37	24.00	1.156	-	-	-0.13	1.620	1.873
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	26340	1880	Open	23.32	24.00	1.169	-	-	0.04	1.780	2.082
	LTE Band 2 Other PA	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	18900	1880	Open	23.32	24.00	1.169	-	-	0.01	2.050	2.397



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	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	26340	1880	Open	20.96	22.10	1.300	-	-	0	1.880	2.444
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	26140	1860	Open	20.81	22.10	1.346	-	-	0.13	1.760	2.369
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	26590	1905	Open	20.78	22.10	1.355	-	-	0.01	1.390	1.884
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	26340	1880	Open	20.91	22.10	1.315	-	-	0.06	1.620	2.131
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	26140	1860	Open	20.88	22.10	1.324	-	-	0.09	1.480	1.960
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	26590	1905	Open	20.81	22.10	1.346	-	-	0.03	1.190	1.602
	LTE Band 25	20M	QPSK	100	0	-	Front	0mm	Ant 1	DSI 6	26340	1880	Open	20.82	22.10	1.343	-	-	0.03	1.610	2.162
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	26340	1880	Open	20.96	22.10	1.300	-	-	0.18	1.550	2.015
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	26140	1860	Open	20.81	22.10	1.346	-	-	0.09	1.810	2.436
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	26590	1905	Open	20.78	22.10	1.355	-	-	-0.05	1.510	2.046
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	26340	1880	Open	20.91	22.10	1.315	-	-	0.16	1.720	2.262
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	26140	1860	Open	20.88	22.10	1.324	-	-	0.08	1.570	2.079
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	26590	1905	Open	20.81	22.10	1.346	-	-	0.06	1.280	1.723
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	26340	1880	Open	20.82	22.10	1.343	-	-	0.07	1.690	2.269
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	26340	1880	Open	20.96	22.10	1.300	-	-	0.16	1.510	1.963
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	26340	1880	Open	20.91	22.10	1.315	-	-	0.03	0.644	0.847
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	18900	1880	Open	20.59	22.10	1.416	-	-	0.04	1.450	2.053
	LTE Band 25	20M	QPSK	1	0	-	Front	8mm	Ant 1	DSI 4	26340	1880	Open	20.82	22.10	1.343	-	-	0.02	0.402	0.540
	LTE Band 25	20M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	26340	1880	Open	20.82	22.10	1.343	-	-	0.14	0.275	0.369
	LTE Band 25	20M	QPSK	1	0	-	Left Side	13mm	Ant 1	DSI 4	26340	1880	Open	20.82	22.10	1.343	-	-	0.09	0.412	0.553
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	26340	1880	Open	21.84	23.50	1.466	-	-	-0.1	1.600	2.345
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	26140	1860	Open	21.78	23.50	1.486	-	-	-0.1	1.540	2.288
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	26590	1905	Open	21.70	23.50	1.514	-	-	0.03	1.540	2.331
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	26340	1880	Open	21.77	23.50	1.489	-	-	0.02	1.410	2.100
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	26140	1860	Open	21.72	23.50	1.507	-	-	-0.01	1.490	2.245
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	26590	1905	Open	21.64	23.50	1.535	-	-	-0.12	1.370	2.102
	LTE Band 25	20M	QPSK	100	0	-	Front	0mm	Ant 2	DSI 6	26340	1880	Open	21.71	23.50	1.510	-	-	0.05	1.370	2.069
118	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	26340	1880	Open	21.84	23.50	1.466	-	-	0.04	2.090	3.063
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	26140	1860	Open	21.78	23.50	1.486	-	-	-0.03	1.420	2.110
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	26590	1905	Open	21.70	23.50	1.514	-	-	0.07	1.510	2.285
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	26340	1880	Open	21.77	23.50	1.489	-	-	0.05	1.840	2.740
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	26140	1860	Open	21.72	23.50	1.507	-	-	0.09	1.940	2.923
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	26590	1905	Open	21.64	23.50	1.535	-	-	0.04	1.790	2.747
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	26340	1880	Open	21.71	23.50	1.510	-	-	-0.09	1.790	2.703
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	26340	1880	Open	21.84	23.50	1.466	-	-	0.03	1.400	2.052
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	26140	1860	Open	21.78	23.50	1.486	-	-	0.14	1.630	2.422
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	26590	1905	Open	21.70	23.50	1.514	-	-	-0.19	1.560	2.361
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	26340	1880	Open	21.77	23.50	1.489	-	-	-0.05	1.280	1.906
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI 6	26340	1880	Open	21.71	23.50	1.510	-	-	0.14	1.240	1.872
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	18900	1880	Open	23.42	23.50	1.019	-	-	0.04	1.950	1.986
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	26340	1880	Open	20.56	21.60	1.271	-	-	0.08	1.830	2.325
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	26140	1860	Open	20.38	21.60	1.324	-	-	0.05	0.890	1.179
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	26590	1905	Open	20.45	21.60	1.303	-	-	-0.14	1.280	1.668
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	26340	1880	Open	20.45	21.60	1.303	-	-	0.14	1.660	2.163
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	26140	1860	Open	20.41	21.60	1.315	-	-	-0.07	1.860	2.446
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	26590	1905	Open	20.29	21.60	1.352	-	-	0.01	1.610	2.177
	LTE Band 25	20M	QPSK	100	0	-	Top Side	0mm	Ant 3	DSI 6	26340	1880	Open	20.38	21.60	1.324	-	-	-0.1	1.600	2.119
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	18700	1860	Open	20.60	21.60	1.259	-	-	0.02	1.650	2.077
	LTE Band 25	20M	QPSK	1	0	-	Top Side	9mm	Ant 3	DSI 4	26340	1880	Open	22.65	24.00	1.365	-	-	0.03	1.120	1.528
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376500	1882.5	Open	22.06	23.00	1.242	-	-	0.15	1.540	1.912
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376500	1882.5	Open	21.97	23.00	1.268	-	-	0.06	1.630	2.066
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	372000	1860	Open	21.91	23.00	1.285	-	-	0.07	1.320	1.697
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	381000	1905	Open	21.88	23.00	1.294	-	-	0.05	1.280	1.657
	FR1 n25	20M	QPSK	100	0	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376500	1882.5	Open	21.88	23.00	1.294	-	-	0.06	1.560	2.019
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	376500	1882.5	Open	22.06	23.00	1.242	-	-	0.11	1.960	2.434



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Table with 22 columns: Test ID, Modulation, Power, Modulation Type, Frequency, Bandwidth, Position, Distance, Antenna, DSI, Power Density, Power Density, Power Density, Power Density, Power Density, Power Density, Power Density, Power Density, Power Density, Power Density, Power Density, Power Density. Row 119 is highlighted.



Table with columns for device model, power, modulation, frequency, channel, antenna, distance, antenna type, SAR, and PTC. Includes a section for 2300MHz with LTE Band 30 tests.

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LTE Band 30	10M	QPSK	1	0	-	Bottom Side	11mm	Ant 0	DSI 4	27710	2310	Open	20.55	22.00	1.396	-	-	0.01	0.561	0.783	
LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	27710	2310	Open	20.76	21.60	1.213	-	-	0.08	1.900	2.305	
LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 1	DSI 6	27710	2310	Open	20.63	21.60	1.250	-	-	0.07	1.480	1.850	
LTE Band 30	10M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	27710	2310	Open	20.57	21.60	1.268	-	-	0.07	1.490	1.889	
LTE Band 30	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	27710	2310	Open	20.76	21.60	1.213	-	-	0.05	2.040	2.475	
LTE Band 30	10M	QPSK	25	0	-	Left Side	0mm	Ant 1	DSI 6	27710	2310	Open	20.63	21.60	1.250	-	-	0.14	1.610	2.013	
LTE Band 30	10M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	27710	2310	Open	20.57	21.60	1.268	-	-	-0.09	1.570	1.990	
LTE Band 30	10M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	27710	2310	Open	20.76	22.00	1.330	-	-	0.03	0.311	0.414	
LTE Band 30	10M	QPSK	1	0	-	Left Side	13mm	Ant 1	DSI 4	27710	2310	Open	20.76	22.00	1.330	-	-	-0.05	0.255	0.339	
LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	27710	2310	Open	21.44	23.00	1.432	-	-	0.02	1.500	2.148	
LTE Band 30	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 2	DSI 6	27710	2310	Open	21.36	23.00	1.459	-	-	0.04	1.170	1.707	
LTE Band 30	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	27710	2310	Open	21.31	23.00	1.476	-	-	-0.15	1.200	1.771	
LTE Band 30	10M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	27710	2310	Open	21.95	22.90	1.245	-	-	-0.12	1.710	2.128	
LTE Band 30	10M	QPSK	25	0	-	Front	0mm	Ant 3	DSI 6	27710	2310	Open	21.92	22.90	1.253	-	-	0.06	1.410	1.767	
LTE Band 30	10M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 6	27710	2310	Open	21.86	22.90	1.271	-	-	-0.16	1.480	1.880	
LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 6	27710	2310	Open	21.95	22.90	1.245	-	-	0.08	1.640	2.041	
LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 3	DSI 6	27710	2310	Open	21.92	22.90	1.253	-	-	0.04	1.270	1.591	
LTE Band 30	10M	QPSK	50	0	-	Back	0mm	Ant 3	DSI 6	27710	2310	Open	21.86	22.90	1.271	-	-	0.06	1.370	1.741	
LTE Band 30	10M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	27710	2310	Open	21.95	22.90	1.245	-	-	0.06	1.970	2.452	
LTE Band 30	10M	QPSK	25	0	-	Top Side	0mm	Ant 3	DSI 6	27710	2310	Open	21.92	22.90	1.253	-	-	0.09	1.510	1.892	
LTE Band 30	10M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	27710	2310	Open	21.86	22.90	1.271	-	-	-0.09	1.580	2.008	
LTE Band 30	10M	QPSK	1	0	-	Front	9mm	Ant 3	DSI 4	27710	2310	Open	22.58	24.00	1.387	-	-	0.01	0.315	0.437	
LTE Band 30	10M	QPSK	1	0	-	Back	4mm	Ant 3	DSI 4	27710	2310	Open	22.58	24.00	1.387	-	-	0.15	0.554	0.768	
LTE Band 30	10M	QPSK	1	0	-	Top Side	9mm	Ant 3	DSI 4	27710	2310	Open	22.58	24.00	1.387	-	-	0.03	0.456	0.632	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	462000	2310	Open	21.17	22.00	1.211	-	-	-0.18	1.450	1.755	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	462000	2310	Open	20.82	22.00	1.312	-	-	0.04	1.350	1.771	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	462000	2310	Open	21.17	22.00	1.211	-	-	0.08	1.700	2.058	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	462000	2310	Open	20.82	22.00	1.312	-	-	0.14	1.540	2.021	
FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	462000	2310	Open	20.13	21.00	1.222	-	-	-0.17	1.570	1.918	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	462000	2310	Open	20.70	22.00	1.349	-	-	-0.1	0.781	1.054	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	462000	2310	Open	20.43	22.00	1.435	-	-	0.12	0.740	1.062	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	462000	2310	Open	20.70	22.00	1.349	-	-	0.05	1.150	1.551	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	462000	2310	Open	20.43	22.00	1.435	-	-	0.02	0.920	1.321	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	462000	2310	Open	20.70	22.00	1.349	-	-	0.02	1.090	1.470	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	462000	2310	Open	20.43	22.00	1.435	-	-	0.18	0.700	1.005	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 3	DSI 6	462000	2310	Open	22.29	23.20	1.233	-	-	0.16	1.480	1.825	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	0mm	Ant 3	DSI 6	462000	2310	Open	21.89	23.20	1.352	-	-	0.14	1.500	2.028	
FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Front	0mm	Ant 3	DSI 6	462000	2310	Open	21.42	23.00	1.439	-	-	0.1	1.400	2.014	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 3	DSI 6	462000	2310	Open	22.29	23.20	1.233	-	-	-0.02	1.270	1.566	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 3	DSI 6	462000	2310	Open	21.89	23.20	1.352	-	-	0.18	1.260	1.704	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	0mm	Ant 3	DSI 6	462000	2310	Open	22.29	23.20	1.233	-	-	0.02	0.820	1.011	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	0mm	Ant 3	DSI 6	462000	2310	Open	21.89	23.20	1.352	-	-	-0.1	0.760	1.028	
122	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSI 6	462000	2310	Open	22.29	23.20	1.233	-	-	-0.18	1.980	2.442
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSI 6	462000	2310	Open	21.89	23.20	1.352	-	-	-0.06	1.720	2.326	
FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSI 6	462000	2310	Open	21.42	23.00	1.439	-	-	0.02	1.650	2.374	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	9mm	Ant 3	DSI 4	462000	2310	Open	22.81	24.00	1.315	-	-	0.06	0.315	0.414	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	9mm	Ant 3	DSI 4	462000	2310	Open	22.58	24.00	1.387	-	-	-0.08	0.322	0.447	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	4mm	Ant 3	DSI 4	462000	2310	Open	22.81	24.00	1.315	-	-	0.01	0.456	0.600	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	4mm	Ant 3	DSI 4	462000	2310	Open	22.58	24.00	1.387	-	-	0.05	0.468	0.649	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	8mm	Ant 3	DSI 4	462000	2310	Open	22.81	24.00	1.315	-	-	0.17	0.227	0.299	
FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	8mm	Ant 3	DSI 4	462000	2310	Open	22.58	24.00	1.387	-	-	0.08	0.235	0.326	
FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	9mm	Ant 3	DSI 4	462000	2310	Open	22.81	24.00	1.315	-	-	0.02	0.456	0.600	
2600MHz																					
LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	21100	2535	Open	20.31	21.20	1.227	-	-	0.04	1.560	1.915	
LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	21100	2535	Open	20.28	21.20	1.236	-	-	0.09	1.390	1.718	
LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	21100	2535	Open	20.31	21.20	1.227	-	-	0.03	2.150	2.639	



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	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	20850	2510	Open	20.21	21.20	1.256	-	-	-0.13	2.180	2.738
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	21350	2560	Open	20.25	21.20	1.245	-	-	-0.14	2.180	2.713
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	21100	2535	Open	20.28	21.20	1.236	-	-	0.07	1.850	2.287
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	20850	2510	Open	20.16	21.20	1.271	-	-	0.03	1.830	2.325
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	21350	2560	Open	20.26	21.20	1.242	-	-	0.15	1.810	2.247
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	21100	2535	Open	20.25	21.20	1.245	-	-	-0.18	1.800	2.240
123	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	Open	20.31	21.20	1.227	-	-	0.04	2.590	3.179
	LTE Band 7C	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 0	DSI 6	21100+ 21298	2535+ 2554.8	Open	20.15	21.20	1.274	-	-	0.01	2.330	2.967
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	Open	20.21	21.20	1.256	-	-	-0.17	2.360	2.964
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21350	2560	Open	20.25	21.20	1.245	-	-	0.02	2.250	2.800
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	Open	20.28	21.20	1.236	-	-	0.08	2.290	2.830
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	Open	20.16	21.20	1.271	-	-	0.04	2.080	2.643
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	21350	2560	Open	20.26	21.20	1.242	-	-	-0.18	2.180	2.707
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	Open	20.25	21.20	1.245	-	-	-0.09	2.220	2.763
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	Open	20.27	21.20	1.239	-	-	0.01	2.410	2.985
	LTE Band 7	20M	QPSK	1	0	-	Front	9mm	Ant 0	DSI 4	21100	2535	Open	23.23	24.00	1.194	-	-	0.01	0.195	0.233
	LTE Band 7	20M	QPSK	1	0	-	Back	6mm	Ant 0	DSI 4	21100	2535	Open	23.23	24.00	1.194	-	-	-0.06	0.723	0.863
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 0	DSI 4	21100	2535	Open	23.23	24.00	1.194	-	-	0.05	0.231	0.276
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	21350	2560	Open	20.32	21.30	1.253	-	-	-0.07	0.966	1.211
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	21350	2560	Open	20.31	21.30	1.256	-	-	-0.1	0.731	0.918
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	21350	2560	Open	20.32	21.30	1.253	-	-	0.05	1.460	1.830
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	21350	2560	Open	20.31	21.30	1.256	-	-	0.07	0.810	1.017
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	21350	2560	Open	20.32	21.30	1.253	-	-	0.1	1.610	2.018
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	20850	2510	Open	20.15	21.30	1.303	-	-	0.04	1.550	2.020
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	21100	2535	Open	20.25	21.30	1.274	-	-	0.14	1.940	2.471
	LTE Band 7C	20M	QPSK	1	99	-	Left Side	0mm	Ant 1	DSI 6	21100+ 21298	2535+ 2554.8	Open	20.21	21.30	1.285	-	-	0.01	1.540	1.979
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	21350	2560	Open	20.31	21.30	1.256	-	-	-0.1	1.490	1.871
	LTE Band 7	20M	QPSK	100	0	-	Left Side	0mm	Ant 1	DSI 6	21350	2560	Open	20.18	21.30	1.294	-	-	0.19	1.390	1.799
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	21100	2535	Open	20.24	21.30	1.276	-	-	-0.11	1.650	2.106
	LTE Band 7	20M	QPSK	1	0	-	Front	8mm	Ant 1	DSI 4	21350	2560	Open	23.20	23.50	1.072	-	-	0.09	0.321	0.344
	LTE Band 7	20M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	21350	2560	Open	23.20	23.50	1.072	-	-	0.04	0.346	0.371
	LTE Band 7	20M	QPSK	1	0	-	Left Side	13mm	Ant 1	DSI 4	21350	2560	Open	23.20	23.50	1.072	-	-	0.01	0.255	0.273
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	21100	2535	Open	21.35	23.00	1.462	-	-	0.03	1.360	1.989
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	21100	2535	Open	21.28	23.00	1.486	-	-	0.08	1.190	1.768
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	21100	2535	Open	21.35	23.00	1.462	-	-	0.09	2.150	3.144
	LTE Band 7C	20M	QPSK	1	99	-	Back	0mm	Ant 2	DSI 6	21100+ 21298	2535+ 2554.8	Open	21.26	23.00	1.493	-	-	0.03	1.840	2.747
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	21100	2535	Open	21.35	23.00	1.462	-	-	0.01	1.580	2.310
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	20850	2510	Open	21.20	23.00	1.514	-	-	0.03	1.340	2.028
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	21350	2560	Open	21.26	23.00	1.493	-	-	-0.12	1.700	2.538
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	21100	2535	Open	21.28	23.00	1.486	-	-	0.07	1.810	2.690
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	20850	2510	Open	21.11	23.00	1.545	-	-	-0.16	1.530	2.364
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	21350	2560	Open	21.17	23.00	1.524	-	-	0.06	1.600	2.438
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	21100	2535	Open	21.23	23.00	1.503	-	-	-0.1	1.770	2.661
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	21100	2535	Open	21.35	23.00	1.462	-	-	0.17	2.060	3.012
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	20850	2510	Open	21.20	23.00	1.514	-	-	0.01	1.750	2.649
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	21350	2560	Open	21.26	23.00	1.493	-	-	-0.19	1.590	2.374
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	21100	2535	Open	21.28	23.00	1.486	-	-	-0.06	1.830	2.719
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	20850	2510	Open	21.11	23.00	1.545	-	-	0.09	1.560	2.411
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	21350	2560	Open	21.17	23.00	1.524	-	-	-0.1	1.550	2.362
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI 6	21100	2535	Open	21.23	23.00	1.503	-	-	0.08	1.750	2.630
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	21100	2535	Open	22.43	22.50	1.016	-	-	0.09	0.910	0.925
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	21100	2535	Open	19.80	21.20	1.380	-	-	0.05	1.510	2.084
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	20850	2510	Open	19.75	21.20	1.396	-	-	0.09	1.780	2.486
	LTE Band 7C	20M	QPSK	1	99	-	Top Side	0mm	Ant 3	DSI 6	20850+ 21048	2510+ 2529.8	Open	19.35	21.20	1.531	-	-	0.01	1.480	2.266
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	21350	2560	Open	19.75	21.20	1.396	-	-	-0.08	1.640	2.290



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	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	21100	2535	Open	19.77	21.20	1.390	-	-	-0.06	1.580	2.196
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	20850	2510	Open	19.68	21.20	1.419	-	-	0.18	1.520	2.157
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 3	DSI 6	21350	2560	Open	19.72	21.20	1.406	-	-	-0.04	1.590	2.236
	LTE Band 7	20M	QPSK	100	0	-	Top Side	0mm	Ant 3	DSI 6	21100	2535	Open	19.75	21.20	1.396	-	-	-0.19	1.730	2.416
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	20850	2510	Open	19.51	21.20	1.476	-	-	0.06	1.020	1.505
	LTE Band 7	20M	QPSK	1	0	-	Top Side	9mm	Ant 3	DSI 4	20850	2510	Open	22.87	24.00	1.297	-	-	0.09	0.334	0.433
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	40620	2593	Open	22.52	23.80	1.343	62.9	1.006	-0.18	1.130	1.526
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	39750	2506	Open	22.26	23.80	1.426	62.9	1.006	0.04	0.768	1.101
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	40185	2549.5	Open	22.40	23.80	1.380	62.9	1.006	-0.08	0.975	1.354
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	41055	2636.5	Open	22.49	23.80	1.352	62.9	1.006	0.02	1.320	1.795
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	41490	2680	Open	22.18	23.80	1.452	62.9	1.006	-0.11	1.000	1.461
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	40620	2593	Open	22.46	23.80	1.361	62.9	1.006	0.12	1.140	1.561
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	39750	2506	Open	22.25	23.80	1.429	62.9	1.006	0.02	0.680	0.977
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	40185	2549.5	Open	22.26	23.80	1.426	62.9	1.006	-0.18	0.990	1.420
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	41055	2636.5	Open	22.38	23.80	1.387	62.9	1.006	0.16	1.310	1.828
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	41490	2680	Open	22.12	23.80	1.472	62.9	1.006	0.08	1.000	1.481
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	40620	2593	Open	22.35	23.80	1.396	62.9	1.006	0.11	1.120	1.573
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	Open	22.52	23.80	1.343	62.9	1.006	0.05	2.030	2.742
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	39750	2506	Open	22.26	23.80	1.426	62.9	1.006	-0.01	1.660	2.381
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	40185	2549.5	Open	22.40	23.80	1.380	62.9	1.006	0.03	2.130	2.958
124	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	41055	2636.5	Open	22.49	23.80	1.352	62.9	1.006	0.01	2.330	3.169
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 0	DSI 6	41055+ 41253	2636.5+ 2656.3	Open	22.16	23.80	1.459	62.9	1.006	0.08	2.010	2.950
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	41490	2680	Open	22.18	23.80	1.452	62.9	1.006	0.12	2.000	2.922
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	Open	22.46	23.80	1.361	62.9	1.006	0.17	2.090	2.862
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	39750	2506	Open	22.25	23.80	1.429	62.9	1.006	-0.05	1.450	2.084
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	40185	2549.5	Open	22.26	23.80	1.426	62.9	1.006	0.09	2.000	2.868
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	41055	2636.5	Open	22.38	23.80	1.387	62.9	1.006	0.15	2.200	3.069
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	41490	2680	Open	22.12	23.80	1.472	62.9	1.006	-0.1	1.990	2.947
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	Open	22.35	23.80	1.396	62.9	1.006	0.02	2.070	2.908
	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	41055	2636.5	Open	24.03	25.40	1.371	42.9	1.009	0.01	2.280	3.154
	LTE Band 41C_ HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	41055+ 41253	2636.5+ 2656.3	Open	23.95	25.40	1.396	42.9	1.009	0.09	2.120	2.987
	LTE Band 41	20M	QPSK	1	0	-	Back	6mm	Ant 0	DSI 4	41055	2636.5	Open	23.31	24.00	1.172	62.9	1.006	0.08	0.415	0.489
	LTE Band 41	20M	QPSK	50	0	-	Back	6mm	Ant 0	DSI 4	41055	2636.5	Open	23.25	24.00	1.189	62.9	1.006	-0.01	0.422	0.505
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 0	DSI 4	41055	2636.5	Open	23.31	24.00	1.172	62.9	1.006	0.05	0.318	0.375
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	11mm	Ant 0	DSI 4	41055	2636.5	Open	23.25	24.00	1.189	62.9	1.006	0.01	0.326	0.390
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	Open	22.09	23.00	1.233	62.9	1.006	0.16	1.070	1.327
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	Open	22.03	23.00	1.250	62.9	1.006	-0.16	1.110	1.396
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	Open	22.09	23.00	1.233	62.9	1.006	0.04	1.150	1.427
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	Open	22.03	23.00	1.250	62.9	1.006	0.12	1.150	1.446
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	40620	2593	Open	22.09	23.00	1.233	62.9	1.006	0.02	1.970	2.444
	LTE Band 41C	20M	QPSK	1	99	-	Left Side	0mm	Ant 1	DSI 6	40620+ 40818	2593+ 2612.8	Open	21.88	23.00	1.294	62.9	1.006	0.07	1.650	2.148
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	39750	2506	Open	21.89	23.00	1.291	62.9	1.006	0.19	1.420	1.845
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	40185	2549.5	Open	22.04	23.00	1.247	62.9	1.006	0.15	1.840	2.309
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	41055	2636.5	Open	21.92	23.00	1.282	62.9	1.006	0.1	1.410	1.819
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	41490	2680	Open	21.88	23.00	1.294	62.9	1.006	0.04	1.070	1.393
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	40620	2593	Open	22.03	23.00	1.250	62.9	1.006	0.03	1.900	2.390
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	39750	2506	Open	21.81	23.00	1.315	62.9	1.006	0.11	1.470	1.945
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	40185	2549.5	Open	21.95	23.00	1.274	62.9	1.006	-0.05	1.530	1.960
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	41055	2636.5	Open	21.85	23.00	1.303	62.9	1.006	-0.12	1.370	1.796
	LTE Band 41	20M	QPSK	100	0	-	Left Side	0mm	Ant 1	DSI 6	40620	2593	Open	21.97	23.00	1.268	62.9	1.006	0.01	1.080	1.377
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	40620	2593	Open	22.09	23.00	1.233	62.9	1.006	0.15	1.850	2.295
	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	40620	2593	Open	23.85	24.60	1.189	42.9	1.009	0.09	2.020	2.422
	LTE Band 41C_ HPUE	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	40620+ 40818	2593+ 2612.8	Open	23.66	24.60	1.242	42.9	1.009	0.05	1.840	2.305
	LTE Band 41	20M	QPSK	1	0	-	Front	8mm	Ant 1	DSI 4	40620	2593	Open	23.12	24.00	1.225	62.9	1.006	0.03	0.241	0.297
	LTE Band 41	20M	QPSK	50	0	-	Front	8mm	Ant 1	DSI 4	40620	2593	Open	23.08	24.00	1.236	62.9	1.006	-0.01	0.245	0.305



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LTE Band 41	20M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	40620	2593	Open	23.12	24.00	1.225	62.9	1.006	0.05	0.251	0.309
LTE Band 41	20M	QPSK	50	0	-	Back	8mm	Ant 1	DSI 4	40620	2593	Open	23.08	24.00	1.236	62.9	1.006	0.02	0.259	0.322
LTE Band 41	20M	QPSK	1	0	-	Left Side	13mm	Ant 1	DSI 4	40620	2593	Open	23.12	24.00	1.225	62.9	1.006	0.18	0.222	0.273
LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	40620	2593	Open	21.76	23.00	1.330	62.9	1.006	0.12	0.913	1.222
LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	40620	2593	Open	21.74	23.00	1.337	62.9	1.006	0.02	0.919	1.236
LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	40620	2593	Open	21.76	23.00	1.330	62.9	1.006	-0.09	1.320	1.767
LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	39750	2506	Open	21.62	23.00	1.374	62.9	1.006	0.04	1.260	1.742
LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	40185	2549.5	Open	21.64	23.00	1.368	62.9	1.006	0.14	1.260	1.734
LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	41055	2636.5	Open	21.72	23.00	1.343	62.9	1.006	0.06	1.360	1.837
LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	41490	2680	Open	21.58	23.00	1.387	62.9	1.006	-0.11	1.390	1.939
LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	40620	2593	Open	21.74	23.00	1.337	62.9	1.006	-0.07	1.330	1.788
LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	39750	2506	Open	21.59	23.00	1.384	62.9	1.006	-0.16	1.280	1.782
LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	40185	2549.5	Open	21.64	23.00	1.368	62.9	1.006	-0.1	1.280	1.761
LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	41055	2636.5	Open	21.65	23.00	1.365	62.9	1.006	0.02	1.380	1.894
LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	41490	2680	Open	21.61	23.00	1.377	62.9	1.006	0.17	1.430	1.981
LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	40620	2593	Open	21.69	23.00	1.352	62.9	1.006	0.03	1.330	1.809
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	40620	2593	Open	21.76	23.00	1.330	62.9	1.006	0.04	1.380	1.847
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	39750	2506	Open	21.62	23.00	1.374	62.9	1.006	0.05	1.330	1.838
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	40185	2549.5	Open	21.64	23.00	1.368	62.9	1.006	0.05	1.330	1.830
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	41055	2636.5	Open	21.72	23.00	1.343	62.9	1.006	-0.07	1.260	1.702
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	41490	2680	Open	21.58	23.00	1.387	62.9	1.006	0.04	1.500	2.093
LTE Band 41C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	41490+ 41292	2680+ 2660.2	Open	21.14	23.00	1.535	62.9	1.006	0.07	1.260	1.945
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	40620	2593	Open	21.74	23.00	1.337	62.9	1.006	0.03	1.350	1.815
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	39750	2506	Open	21.59	23.00	1.384	62.9	1.006	-0.09	1.470	2.046
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	40185	2549.5	Open	21.64	23.00	1.368	62.9	1.006	-0.09	1.370	1.885
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	41055	2636.5	Open	21.65	23.00	1.365	62.9	1.006	-0.1	1.290	1.771
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	41490	2680	Open	21.61	23.00	1.377	62.9	1.006	0.02	1.130	1.566
LTE Band 41	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI 6	40620	2593	Open	21.69	23.00	1.352	62.9	1.006	0.05	1.300	1.768
LTE Band 41_ HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	41490	2680	Open	23.22	24.50	1.343	42.9	1.009	0.01	1.440	1.951
LTE Band 41C_ HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	41490+ 41292	2680+ 2660.2	Open	23.06	24.50	1.393	42.9	1.009	0.06	1.270	1.785
LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	40620	2593	Open	21.98	23.20	1.324	62.9	1.006	0.03	1.210	1.612
LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	39750	2506	Open	21.83	23.20	1.371	62.9	1.006	0.17	1.350	1.862
LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	40185	2549.5	Open	21.89	23.20	1.352	62.9	1.006	-0.01	1.230	1.673
LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	41055	2636.5	Open	21.68	23.20	1.419	62.9	1.006	-0.09	1.460	2.084
LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	41490	2680	Open	21.62	23.20	1.439	62.9	1.006	0.01	1.710	2.475
LTE Band 41C	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 6	41490+ 41292	2680+ 2660.2	Open	21.35	23.20	1.531	62.9	1.006	0.07	1.280	1.972
LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 6	40620	2593	Open	21.89	23.20	1.352	62.9	1.006	-0.07	1.220	1.659
LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 6	39750	2506	Open	21.77	23.20	1.390	62.9	1.006	0.09	1.360	1.902
LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 6	40185	2549.5	Open	21.78	23.20	1.387	62.9	1.006	-0.16	1.290	1.800
LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 6	41055	2636.5	Open	21.71	23.20	1.409	62.9	1.006	0.06	1.450	2.056
LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 6	41490	2680	Open	21.76	23.20	1.393	62.9	1.006	0.04	1.650	2.313
LTE Band 41	20M	QPSK	100	0	-	Front	0mm	Ant 3	DSI 6	40620	2593	Open	21.90	23.20	1.349	62.9	1.006	0.03	1.210	1.642
LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 6	40620	2593	Open	21.98	23.20	1.324	62.9	1.006	-0.19	0.975	1.299
LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 6	39750	2506	Open	21.83	23.20	1.371	62.9	1.006	0.03	1.080	1.489
LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 6	40185	2549.5	Open	21.89	23.20	1.352	62.9	1.006	0.15	0.986	1.341
LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 6	41055	2636.5	Open	21.68	23.20	1.419	62.9	1.006	0.06	1.060	1.513
LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 6	41490	2680	Open	21.62	23.20	1.439	62.9	1.006	-0.16	1.230	1.780
LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 3	DSI 6	40620	2593	Open	21.89	23.20	1.352	62.9	1.006	0.06	1.000	1.360
LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 3	DSI 6	39750	2506	Open	21.77	23.20	1.390	62.9	1.006	-0.1	1.150	1.608
LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 3	DSI 6	40185	2549.5	Open	21.78	23.20	1.387	62.9	1.006	-0.17	1.060	1.479
LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 3	DSI 6	41055	2636.5	Open	21.71	23.20	1.409	62.9	1.006	-0.07	1.070	1.517
LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 3	DSI 6	41490	2680	Open	21.76	23.20	1.393	62.9	1.006	0.01	1.250	1.752
LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 3	DSI 6	40620	2593	Open	21.90	23.20	1.349	62.9	1.006	-0.06	0.982	1.333
LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	40620	2593	Open	21.98	23.20	1.324	62.9	1.006	0.02	1.480	1.972
LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 3	DSI 6	39750	2506	Open	21.83	23.20	1.371	62.9	1.006	-0.1	1.660	2.289



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Table with columns for LTE Band 41, 20M, QPSK, 1, 0, -, Top Side, 0mm, Ant 3, DSI 6, 40185, 2549.5, Open, 21.89, 23.20, 1.352, 62.9, 1.006, 0.16, 1.500, 2.040. Includes a row with value 3.205 highlighted in yellow.



FCC SAR Test Report

Report No. : FA340401-01

Table with columns for device model, power, modulation, frequency, antenna, distance, etc. Includes a highlighted row with value 3.178.



FCC SAR Test Report

Report No. : FA340401-01

Table with columns for device ID, power, modulation, frequency, distance, antenna, etc. Includes a 3500MHz section and a highlighted cell with value 2.462.



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															55538	3579.8							
	LTE Band 48	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	DSI 6	56150	3641	Open	22.55	23.30	1.189	62.9	1.006	0.18	1.860	2.224		
	LTE Band 48	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	DSI 6	56640	3690	Open	22.38	23.30	1.236	62.9	1.006	0.13	1.770	2.201		
	LTE Band 48	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	DSI 6	55830	3609	Open	22.54	23.30	1.191	62.9	1.006	-0.01	1.650	1.977		
	LTE Band 48	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	DSI 6	55340	3560	Open	22.45	23.30	1.216	62.9	1.006	0.02	1.800	2.202		
	LTE Band 48	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	DSI 6	56150	3641	Open	22.52	23.30	1.197	62.9	1.006	0.06	1.640	1.974		
	LTE Band 48	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	DSI 6	56640	3690	Open	22.27	23.30	1.268	62.9	1.006	0.08	1.570	2.002		
	LTE Band 48	20M	QPSK	100	0	-	Right Side	0mm	Ant 5	DSI 6	55830	3609	Open	22.46	23.30	1.213	62.9	1.006	0.02	1.680	2.051		
	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant 5	DSI 4	55830	3609	Open	22.63	24.00	1.371	62.9	1.006	0.08	1.010	1.393		
	LTE Band 48	20M	QPSK	50	0	-	Top Side	0mm	Ant 5	DSI 4	55830	3609	Open	22.54	24.00	1.400	62.9	1.006	-0.12	0.952	1.340		
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 4	55340	3560	Open	22.49	24.00	1.416	62.9	1.006	0.05	0.712	1.014		
	LTE Band 48	20M	QPSK	1	0	-	Back	11mm	Ant 5	DSI 4	55340	3560	Open	22.49	24.00	1.416	62.9	1.006	0.01	0.705	1.004		
	LTE Band 48	20M	QPSK	1	0	-	Right Side	11mm	Ant 5	DSI 4	55340	3560	Open	22.49	24.00	1.416	62.9	1.006	-0.03	0.625	0.890		
	LTE Band 48	20M	QPSK	1	0	-	Top Side	11mm	Ant 5	DSI 4	55830	3609	Open	22.63	24.00	1.371	62.9	1.006	0.02	0.527	0.727		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	641666	3624.99	Open	21.75	22.70	1.245	-	-	0.06	1.990	2.477		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	638000	3570	Open	21.57	22.70	1.297	-	-	0.05	1.440	1.868		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	645332	3679.98	Open	21.22	22.70	1.406	-	-	0.13	1.460	2.053		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	641666	3624.99	Open	21.71	22.70	1.256	-	-	0.09	1.980	2.487		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	638000	3570	Open	21.47	22.70	1.327	-	-	0.01	1.390	1.845		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	645332	3679.98	Open	21.17	22.70	1.422	-	-	0.14	1.380	1.963		
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	641666	3624.99	Open	21.59	22.70	1.291	-	-	0.09	1.620	2.092		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 5	DSI 4	641666	3624.99	Open	24.82	25.50	1.169	-	-	0.03	1.350	1.579		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	0mm	Ant 5	DSI 4	641666	3624.99	Open	24.79	25.50	1.178	-	-	0.18	1.270	1.496		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	11mm	Ant 5	DSI 4	641666	3624.99	Open	24.82	25.50	1.169	-	-	0.05	0.245	0.287		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	11mm	Ant 5	DSI 4	641666	3624.99	Open	24.79	25.50	1.178	-	-	0.02	0.265	0.312		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	11mm	Ant 5	DSI 4	641666	3624.99	Open	24.82	25.50	1.169	-	-	0.1	0.102	0.119		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	641666	3624.99	Open	21.75	23.00	1.334	-	-	0.04	0.957	1.276		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	641666	3624.99	Open	21.69	23.00	1.352	-	-	-0.18	0.819	1.107		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 1	DSI 6	641666	3624.99	Open	21.75	23.00	1.334	-	-	0.17	0.915	1.220		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	0mm	Ant 1	DSI 6	641666	3624.99	Open	21.69	23.00	1.352	-	-	-0.14	0.927	1.253		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	641666	3624.99	Open	22.40	23.80	1.380	-	-	0.01	1.990	2.747		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	638000	3570	Open	22.30	23.80	1.413	-	-	-0.06	1.540	2.175		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	645332	3679.98	Open	22.32	23.80	1.406	-	-	-0.07	1.560	2.193		
128	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	641666	3624.99	Open	22.32	23.80	1.406	-	-	-0.16	2.260	3.178		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	638000	3570	Open	22.12	23.80	1.472	-	-	0.05	1.680	2.473		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	645332	3679.98	Open	22.17	23.80	1.455	-	-	0.01	1.640	2.387		
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	641666	3624.99	Open	22.25	23.00	1.189	-	-	-0.16	1.530	1.818		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	641666	3624.99	Open	22.40	23.80	1.380	-	-	0.05	1.650	2.278		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	638000	3570	Open	22.30	23.80	1.413	-	-	0.02	1.410	1.992		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	645332	3679.98	Open	22.32	23.80	1.406	-	-	-0.05	1.430	2.011		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	641666	3624.99	Open	22.32	23.80	1.406	-	-	0.03	1.520	2.137		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	638000	3570	Open	22.12	23.80	1.472	-	-	0.04	1.220	1.796		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	645332	3679.98	Open	22.17	23.80	1.455	-	-	-0.17	1.260	1.834		
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	641666	3624.99	Open	22.25	23.00	1.189	-	-	0.03	1.410	1.676		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	7mm	Ant 2	DSI 4	641666	3624.99	Open	22.40	23.80	1.380	-	-	0.04	0.565	0.780		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	7mm	Ant 2	DSI 4	641666	3624.99	Open	22.32	23.80	1.406	-	-	0.02	0.588	0.827		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 4	641666	3624.99	Open	22.40	23.80	1.380	-	-	0.06	0.354	0.489		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 6	641666	3624.99	Open	19.37	20.40	1.268	-	-	0.1	1.770	2.244		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 6	638000	3570	Open	18.86	20.40	1.426	-	-	-0.08	1.510	2.153		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 6	645332	3679.98	Open	18.97	20.40	1.390	-	-	0.01	1.560	2.168		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 6	641666	3624.99	Open	18.95	20.40	1.396	-	-	0.09	1.670	2.332		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 6	638000	3570	Open	18.83	20.40	1.435	-	-	0.06	1.480	2.125		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 6	645332	3679.98	Open	18.80	20.40	1.445	-	-	0.13	1.490	2.154		
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 6	641666	3624.99	Open	18.77	20.40	1.455	-	-	0.02	1.520	2.212		
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 6	641666	3624.99	Open	19.37	20.40	1.268	-	-	-0.01	1.110	1.407		
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 6	641666	3624.99	Open	18.95	20.40	1.396	-	-	-0.13	1.080	1.508		



FCC SAR Test Report

Report No. : FA340401-01

Table with columns for device model (FR1 n48, FR1 n77), power (40M, 100M), modulation (QPSK), frequency (DFT-SCS-30KHz), location (Top Side, Front, Back, Left Side, Bottom Side), distance (0mm, 9mm, 13mm), antenna (Ant 3, Ant 2), DSI ID, EIRP (3624.99, 3500.01, 3840), and SAR values (19.37, 20.40, 1.268, etc.).



FCC SAR Test Report

Report No. : FA340401-01

	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 3	DSI 6	656000	3840	Open	18.24	19.50	1.337	-	-	0.09	1.570	2.098
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 3	DSI 6	656000	3840	Open	18.17	19.50	1.358	-	-	0.05	1.120	1.521
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	0mm	Ant 3	DSI 6	656000	3840	Open	17.99	19.50	1.416	-	-	0.12	1.440	2.039
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 3	DSI 6	656000	3840	Open	21.34	22.50	1.306	50	1.000	0.08	1.470	1.920
	FR1 n77 Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 3	DSI 6	656000	3840	Open	18.21	19.50	1.346	-	-	0.07	0.753	1.013
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	9mm	Ant 3	DSI 4	656000	3840	Open	23.75	24.50	1.189	-	-	0.02	0.423	0.503
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	4mm	Ant 3	DSI 4	656000	3840	Open	23.75	24.50	1.189	-	-	0.06	1.010	1.200
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	9mm	Ant 3	DSI 4	656000	3840	Open	23.75	24.50	1.189	-	-	0.01	1.150	1.367
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 6	633334	3500.01	Open	18.46	19.50	1.271	-	-	-0.07	1.340	1.703
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 6	633334	3500.01	Open	18.21	19.50	1.346	-	-	0.08	1.570	2.113
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 6	633334	3500.01	Open	18.26	19.50	1.330	-	-	0.12	1.570	2.089
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 6	633334	3500.01	Open	18.46	19.50	1.271	-	-	0.05	0.706	0.897
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 6	633334	3500.01	Open	18.21	19.50	1.346	-	-	0.06	0.715	0.962
129	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 3	DSI 6	633334	3500.01	Open	18.46	19.50	1.271	-	-	0.09	1.960	2.490
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 3	DSI 6	633334	3500.01	Open	18.21	19.50	1.346	-	-	0.16	1.820	2.449
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	0mm	Ant 3	DSI 6	633334	3500.01	Open	18.26	19.50	1.330	-	-	0.03	1.820	2.421
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 3	DSI 6	633334	3500.01	Open	21.45	22.50	1.274	50	1.000	0.16	1.880	2.394
	FR1 n77 Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 3	DSI 6	633334	3500.01	Open	18.45	19.50	1.274	-	-	-0.04	0.930	1.184
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	9mm	Ant 3	DSI 4	633334	3500.01	Open	23.92	24.50	1.143	-	-	0.07	0.623	0.712
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	9mm	Ant 3	DSI 4	633334	3500.01	Open	23.75	24.50	1.189	-	-	0.06	0.644	0.765
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	4mm	Ant 3	DSI 4	633334	3500.01	Open	23.92	24.50	1.143	-	-	0.02	1.240	1.417
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	4mm	Ant 3	DSI 4	633334	3500.01	Open	23.75	24.50	1.189	-	-	-0.06	1.290	1.533
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	9mm	Ant 3	DSI 4	633334	3500.01	Open	23.92	24.50	1.143	-	-	0.01	1.330	1.520
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	656000	3840	Open	21.42	22.20	1.197	-	-	-0.06	1.900	2.274
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	656000	3840	Open	21.41	22.20	1.199	-	-	0.03	1.740	2.087
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	656000	3840	Open	21.35	22.20	1.216	-	-	0.03	1.780	2.165
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	656000	3840	Open	24.41	25.20	1.199	50	1.000	0.11	1.720	2.063
	FR1 n77 Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	656000	3840	Open	21.73	22.20	1.114	-	-	0.11	0.888	0.989
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	11mm	Ant 5	DSI 4	656000	3840	Open	24.48	25.00	1.127	-	-	0.09	0.245	0.276
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 5	DSI 6	633334	3500.01	Open	21.37	22.20	1.211	-	-	-0.09	2.050	2.482
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 5	DSI 6	633334	3500.01	Open	21.14	22.20	1.276	-	-	0.05	1.810	2.310
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 5	DSI 6	633334	3500.01	Open	21.20	22.20	1.259	-	-	0.16	1.820	2.291
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 6	633334	3500.01	Open	21.37	22.20	1.211	-	-	0.02	1.300	1.574
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 6	633334	3500.01	Open	21.14	22.20	1.276	-	-	0.08	1.110	1.417
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	633334	3500.01	Open	21.37	22.20	1.211	-	-	-0.16	2.020	2.445
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	633334	3500.01	Open	21.14	22.20	1.276	-	-	0.15	1.740	2.221
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	633334	3500.01	Open	21.20	22.20	1.259	-	-	0.07	1.680	2.115
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 5	DSI 4	633334	3500.01	Open	24.45	25.00	1.135	-	-	0.01	1.740	1.975
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 5	DSI 4	633334	3500.01	Open	24.38	25.00	1.153	-	-	0.09	1.720	1.984
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 5	DSI 6	633334	3500.01	Open	24.38	25.20	1.208	50	1.000	0.08	1.850	2.234
	FR1 n77 Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 5	DSI 6	633334	3500.01	Open	21.50	22.20	1.175	-	-	-0.04	0.993	1.167
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 4	633334	3500.01	Open	24.45	25.00	1.135	-	-	0.01	0.359	0.407
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	11mm	Ant 5	DSI 4	633334	3500.01	Open	24.45	25.00	1.135	-	-	0.06	0.322	0.365
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	11mm	Ant 5	DSI 4	633334	3500.01	Open	24.45	25.00	1.135	-	-	0.02	0.245	0.278



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	EUT Flip State	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)	
WALN																		
	WLAN2.4GHZ	802.11b 1Mbps	Front	0mm	Ant 4+6(6)	Standalone	1	2412	Open	21.13	22.50	1.371	100	1.000	-0.01	1.710	2.344	
	WLAN2.4GHZ	802.11b 1Mbps	Front	0mm	Ant 4+6(6)	Standalone	6	2437	Open	21.06	22.50	1.393	100	1.000	-0.08	1.680	2.341	
	WLAN2.4GHZ	802.11b 1Mbps	Front	0mm	Ant 4+6(4)	Standalone	11	2462	Open	21.57	23.00	1.390	100	1.000	-0.01	1.370	1.904	
	WLAN2.4GHZ	802.11b 1Mbps	Back	0mm	Ant 4+6(6)	Standalone	1	2412	Open	21.13	22.50	1.371	100	1.000	-0.06	1.370	1.878	
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	0mm	Ant 4+6(6)	Standalone	1	2412	Open	21.13	22.50	1.371	100	1.000	-0.04	0.868	1.190	
130	WLAN2.4GHZ	802.11b 1Mbps	Top Side	0mm	Ant 4+6(6)	Standalone	1	2412	Open	21.13	22.50	1.371	100	1.000	0.03	1.770	2.426	
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	0mm	Ant 4+6(6)	Standalone	6	2437	Open	21.06	22.50	1.393	100	1.000	0.04	1.710	2.382	
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	0mm	Ant 4+6(4)	Standalone	11	2462	Open	21.57	23.00	1.390	100	1.000	0.01	1.540	2.141	
	WLAN2.4GHZ	802.11b 1Mbps	Front	0mm	Ant 4+6(6)	DBS only	1	2412	Open	19.66	21.00	1.361	100	1.000	0.05	1.200	1.634	
	WLAN2.4GHZ	802.11b 1Mbps	Back	0mm	Ant 4+6(6)	DBS only	1	2412	Open	19.66	21.00	1.361	100	1.000	-0.17	0.951	1.295	
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	0mm	Ant 4+6(6)	DBS only	1	2412	Open	19.66	21.00	1.361	100	1.000	-0.03	0.501	0.682	
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	0mm	Ant 4+6(6)	DBS only	1	2412	Open	19.66	21.00	1.361	100	1.000	0.01	1.260	1.715	
	WLAN2.4GHZ	802.11b 1Mbps	Front	0mm	Ant 4+6(6)	non DBS Simultaneous	1	2412	Open	17.08	18.50	1.387	100	1.000	-0.09	0.618	0.857	
	WLAN2.4GHZ	802.11b 1Mbps	Back	0mm	Ant 4+6(6)	non DBS Simultaneous	1	2412	Open	17.08	18.50	1.387	100	1.000	0.03	0.451	0.625	
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	0mm	Ant 4+6(6)	non DBS Simultaneous	1	2412	Open	17.08	18.50	1.387	100	1.000	0.02	0.225	0.312	
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	0mm	Ant 4+6(6)	non DBS Simultaneous	1	2412	Open	17.08	18.50	1.387	100	1.000	0.01	0.652	0.904	
	WLAN2.4GHZ	802.11b 1Mbps	Front	0mm	Ant 4+6(6)	DBS Simultaneous	1	2412	Open	14.08	15.50	1.387	100	1.000	-0.06	0.245	0.340	
	WLAN2.4GHZ	802.11b 1Mbps	Back	0mm	Ant 4+6(6)	DBS Simultaneous	1	2412	Open	14.08	15.50	1.387	100	1.000	0.06	0.201	0.279	
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	0mm	Ant 4+6(6)	DBS Simultaneous	1	2412	Open	14.08	15.50	1.387	100	1.000	0.02	0.108	0.150	
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	0mm	Ant 4+6(6)	DBS Simultaneous	1	2412	Open	14.08	15.50	1.387	100	1.000	0.01	0.322	0.447	
	WLAN2.4GHZ	802.11b 1Mbps	Front	8mm	Ant 4+6(6)	Full Power	1	2412	Open	21.13	22.50	1.371	100	1.000	0.01	0.512	0.702	
	WLAN2.4GHZ	802.11b 1Mbps	Back	9mm	Ant 4+6(6)	Full Power	1	2412	Open	21.13	22.50	1.371	100	1.000	0.06	0.489	0.670	
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	11mm	Ant 4+6(6)	Full Power	1	2412	Open	21.13	22.50	1.371	100	1.000	0.02	0.125	0.171	
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	11mm	Ant 4+6(6)	Full Power	1	2412	Open	21.13	22.50	1.371	100	1.000	0.06	0.089	0.122	
131	WLAN5.2GHZ	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(5)	Standalone&DBS only	46	5230	Open	18.62	20.50	1.542	100	1.000	0.02	0.936	1.443	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Back	0mm	Ant 5+4(5)	Standalone&DBS only	46	5230	Open	18.62	20.50	1.542	100	1.000	0.06	0.349	0.538	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Left Side	0mm	Ant 5+4(5)	Standalone&DBS only	46	5230	Open	18.62	20.50	1.542	100	1.000	0.09	0.598	0.922	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(5)	Standalone&DBS only	46	5230	Open	18.62	20.50	1.542	100	1.000	0.05	0.793	1.223	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+4(5)	Standalone&DBS only	46	5230	Open	18.62	20.50	1.542	100	1.000	0.01	0.535	0.825	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(4)	non DBS Simultaneous	46	5230	Open	17.06	19.00	1.563	100	1.000	-0.01	0.582	0.910	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Back	0mm	Ant 5+4(4)	non DBS Simultaneous	46	5230	Open	17.06	19.00	1.563	100	1.000	-0.01	0.287	0.449	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Left Side	0mm	Ant 5+4(4)	non DBS Simultaneous	46	5230	Open	17.06	19.00	1.563	100	1.000	-0.06	0.410	0.641	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(4)	non DBS Simultaneous	46	5230	Open	17.06	19.00	1.563	100	1.000	-0.04	0.472	0.738	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+4(4)	non DBS Simultaneous	46	5230	Open	17.06	19.00	1.563	100	1.000	0.02	0.349	0.546	
	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	DBS Simultaneous	42	5210	Open	14.96	16.50	1.426	100	1.000	-0.06	0.339	0.483	
	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	DBS Simultaneous	42	5210	Open	14.96	16.50	1.426	100	1.000	-0.04	0.133	0.190	
	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 5+4(5)	DBS Simultaneous	42	5210	Open	14.96	16.50	1.426	100	1.000	-0.09	0.234	0.334	
	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	DBS Simultaneous	42	5210	Open	14.96	16.50	1.426	100	1.000	0.02	0.296	0.422	
	WLAN5.2GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	DBS Simultaneous	42	5210	Open	14.96	16.50	1.426	100	1.000	0.05	0.231	0.329	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Front	8mm	Ant 5+4(4)	Full Power	46	5230	Open	18.95	20.50	1.429	100	1.000	0.04	0.066	0.094	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Back	9mm	Ant 5+4(4)	Full Power	46	5230	Open	18.95	20.50	1.429	100	1.000	0.07	0.045	0.064	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Left Side	10mm	Ant 5+4(4)	Full Power	46	5230	Open	18.95	20.50	1.429	100	1.000	-0.15	0.049	0.070	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Right Side	11mm	Ant 5+4(4)	Full Power	46	5230	Open	18.95	20.50	1.429	100	1.000	0.02	0.076	0.109	
	WLAN5.2GHZ	802.11n-HT40 MCS0	Top Side	11mm	Ant 5+4(4)	Full Power	46	5230	Open	18.95	20.50	1.429	100	1.000	0.06	0.033	0.047	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(4)	Standalone	54	5270	Open	19.16	21.00	1.528	100	1.000	0.05	1.290	1.971	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Back	0mm	Ant 5+4(4)	Standalone	54	5270	Open	19.16	21.00	1.528	100	1.000	-0.03	0.622	0.950	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Left Side	0mm	Ant 5+4(4)	Standalone	54	5270	Open	19.16	21.00	1.528	100	1.000	0.09	1.170	1.787	
132	WLAN5.3GHZ	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(4)	Standalone	54	5270	Open	19.16	21.00	1.528	100	1.000	0.03	1.550	2.368	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(5)	Standalone	62	5310	Open	18.96	20.50	1.426	100	1.000	0.07	1.390	1.982	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+4(4)	Standalone	54	5270	Open	19.16	21.00	1.528	100	1.000	0.08	0.528	0.807	
	WLAN5.3GHZ	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(5)	DBS only	54	5270	Open	19.16	21.00	1.528	100	1.000	0.02	1.020	1.558	



	WLAN5.3GHZ	802.11n-HT40 MCS0	Back	0mm	Ant 5+4(5)	DBS only	54	5270	Open	18.90	20.50	1.445	100	1.000	-0.04	0.494	0.714
	WLAN5.3GHZ	802.11n-HT40 MCS0	Left Side	0mm	Ant 5+4(5)	DBS only	54	5270	Open	18.90	20.50	1.445	100	1.000	0.02	0.929	1.343
	WLAN5.3GHZ	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(5)	DBS only	54	5270	Open	18.90	20.50	1.445	100	1.000	0.01	1.230	1.778
	WLAN5.3GHZ	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+4(5)	DBS only	54	5270	Open	18.90	20.50	1.445	100	1.000	-0.08	0.419	0.606
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(4)	non DBS Simultaneous	58	5290	Open	15.81	17.50	1.476	100	1.000	0.02	0.574	0.847
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(4)	non DBS Simultaneous	58	5290	Open	15.81	17.50	1.476	100	1.000	0.02	0.278	0.410
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 5+4(4)	non DBS Simultaneous	58	5290	Open	15.81	17.50	1.476	100	1.000	0.06	0.522	0.770
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(4)	non DBS Simultaneous	58	5290	Open	15.81	17.50	1.476	100	1.000	0.09	0.692	1.021
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(4)	non DBS Simultaneous	58	5290	Open	15.81	17.50	1.476	100	1.000	0.05	0.236	0.348
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(4)	DBS Simultaneous	58	5290	Open	12.86	14.50	1.459	100	1.000	0.01	0.288	0.420
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(4)	DBS Simultaneous	58	5290	Open	12.86	14.50	1.459	100	1.000	-0.01	0.139	0.203
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 5+4(4)	DBS Simultaneous	58	5290	Open	12.86	14.50	1.459	100	1.000	-0.01	0.262	0.382
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(4)	DBS Simultaneous	58	5290	Open	12.86	14.50	1.459	100	1.000	-0.06	0.347	0.506
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(4)	DBS Simultaneous	58	5290	Open	12.86	14.50	1.459	100	1.000	-0.04	0.118	0.172
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Front	8mm	Ant 5+4(4)	Full Power	54	5270	Open	19.16	21.00	1.528	100	1.000	0.06	0.106	0.162
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Back	9mm	Ant 5+4(4)	Full Power	54	5270	Open	19.16	21.00	1.528	100	1.000	0.01	0.079	0.121
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 5+4(4)	Full Power	54	5270	Open	19.16	21.00	1.528	100	1.000	-0.03	0.079	0.121
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Right Side	11mm	Ant 5+4(4)	Full Power	54	5270	Open	19.16	21.00	1.528	100	1.000	0.02	0.111	0.170
	WLAN5.3GHZ	802.11ac-VHT80 MCS0	Top Side	11mm	Ant 5+4(4)	Full Power	54	5270	Open	19.16	21.00	1.528	100	1.000	-0.18	0.056	0.086
133	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	Standalone	138	5690	Open	19.86	21.50	1.459	100	1.000	0.01	1.750	2.553
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(4)	Standalone	106	5530	Open	18.85	20.50	1.462	100	1.000	-0.18	1.500	2.193
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(4)	Standalone	122	5610	Open	18.84	20.50	1.466	100	1.000	0.09	0.600	0.879
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	Standalone	138	5690	Open	19.86	21.50	1.459	100	1.000	0.04	0.940	1.371
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 5+4(5)	Standalone	138	5690	Open	19.86	21.50	1.459	100	1.000	0.03	0.490	0.715
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	Standalone	138	5690	Open	19.86	21.50	1.459	100	1.000	0.08	1.360	1.984
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	Standalone	138	5690	Open	19.86	21.50	1.459	100	1.000	0.01	1.350	1.969
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(4)	DBS only	138	5690	Open	16.58	18.00	1.387	100	1.000	0.09	0.977	1.355
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(4)	DBS only	138	5690	Open	16.58	18.00	1.387	100	1.000	0.05	0.485	0.673
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 5+4(4)	DBS only	138	5690	Open	16.58	18.00	1.387	100	1.000	-0.08	0.173	0.240
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(4)	DBS only	138	5690	Open	16.58	18.00	1.387	100	1.000	0.01	0.750	1.040
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(4)	DBS only	138	5690	Open	16.58	18.00	1.387	100	1.000	-0.08	0.740	1.026
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	non DBS Simultaneous	138	5690	Open	14.89	16.50	1.449	100	1.000	0.06	0.550	0.797
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	non DBS Simultaneous	138	5690	Open	14.89	16.50	1.449	100	1.000	-0.04	0.273	0.396
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 5+4(5)	non DBS Simultaneous	138	5690	Open	14.89	16.50	1.449	100	1.000	0.02	0.088	0.127
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	non DBS Simultaneous	138	5690	Open	14.89	16.50	1.449	100	1.000	-0.01	0.408	0.591
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	non DBS Simultaneous	138	5690	Open	14.89	16.50	1.449	100	1.000	-0.08	0.388	0.562
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	DBS Simultaneous	138	5690	Open	11.91	13.50	1.442	100	1.000	-0.01	0.276	0.398
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	DBS Simultaneous	138	5690	Open	11.91	13.50	1.442	100	1.000	-0.06	0.137	0.198
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 5+4(5)	DBS Simultaneous	138	5690	Open	11.91	13.50	1.442	100	1.000	-0.04	0.044	0.063
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	DBS Simultaneous	138	5690	Open	11.91	13.50	1.442	100	1.000	0.03	0.205	0.296
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	DBS Simultaneous	138	5690	Open	11.91	13.50	1.442	100	1.000	0.04	0.195	0.281
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Front	8mm	Ant 5+4(5)	Full Power	138	5690	Open	19.86	21.50	1.459	100	1.000	-0.05	0.129	0.188
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Back	9mm	Ant 5+4(5)	Full Power	138	5690	Open	19.86	21.50	1.459	100	1.000	0.06	0.089	0.130
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 5+4(5)	Full Power	138	5690	Open	19.86	21.50	1.459	100	1.000	0.07	0.085	0.124
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Right Side	11mm	Ant 5+4(5)	Full Power	138	5690	Open	19.86	21.50	1.459	100	1.000	0.02	0.121	0.177
	WLAN5.5GHZ	802.11ac-VHT80 MCS0	Top Side	11mm	Ant 5+4(5)	Full Power	138	5690	Open	19.86	21.50	1.459	100	1.000	0.07	0.065	0.095
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	Standalone	155	5775	Open	19.62	21.00	1.374	100	1.000	-0.04	1.840	2.528
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	Standalone	155	5775	Open	19.62	21.00	1.374	100	1.000	-0.01	1.310	1.800
134	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	Standalone	155	5775	Open	19.62	21.00	1.374	100	1.000	0.04	2.050	2.817
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	Standalone	155	5775	Open	19.62	21.00	1.374	100	1.000	-0.04	1.380	1.896
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	DBS only	155	5775	Open	17.63	19.00	1.371	100	1.000	0.01	1.160	1.590
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	DBS only	155	5775	Open	17.63	19.00	1.371	100	1.000	0.05	1.250	1.714
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	DBS only	155	5775	Open	17.63	19.00	1.371	100	1.000	-0.02	1.290	1.768
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	DBS only	155	5775	Open	17.63	19.00	1.371	100	1.000	0.05	0.821	1.125
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	non DBS Simultaneous	155	5775	Open	15.10	16.50	1.380	100	1.000	-0.01	0.652	0.900
	WLAN5.8GHZ	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	non DBS Simultaneous	155	5775	Open	15.10	16.50	1.380	100	1.000	-0.09	0.589	0.813



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	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	non DBS Simultaneous	155	5775	Open	15.10	16.50	1.380	100	1.000	0.03	0.725	1.001
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	non DBS Simultaneous	155	5775	Open	15.10	16.50	1.380	100	1.000	0.01	0.462	0.638
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	DBS Simultaneous	155	5775	Open	12.13	13.50	1.371	100	1.000	-0.02	0.327	0.448
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	DBS Simultaneous	155	5775	Open	12.13	13.50	1.371	100	1.000	0.03	0.352	0.483
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	DBS Simultaneous	155	5775	Open	12.13	13.50	1.371	100	1.000	-0.01	0.363	0.498
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	DBS Simultaneous	155	5775	Open	12.13	13.50	1.371	100	1.000	0.09	0.232	0.318
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	8mm	Ant 5+4(4)	Full Power	155	5775	Open	19.62	21.00	1.374	100	1.000	-0.01	0.166	0.228
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	9mm	Ant 5+4(4)	Full Power	155	5775	Open	19.62	21.00	1.374	100	1.000	0.05	0.126	0.173
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	11mm	Ant 5+4(4)	Full Power	155	5775	Open	19.62	21.00	1.374	100	1.000	0.17	0.154	0.212
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	11mm	Ant 5+4(4)	Full Power	155	5775	Open	19.62	21.00	1.374	100	1.000	0.08	0.123	0.169



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	EUT Flip State	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	WLAN5.3GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+4(4)	-	Standalone	58	5290	Open	17.28	18.00	1.180	100	1.000	0.07	0.858	1	1.013
2nd	WLAN5.3GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+4(4)	-	Standalone	58	5290	Open	17.28	18.00	1.180	100	1.000	0.01	0.827	1.037	0.976
1st	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+4(4)	-	Standalone	155	5775	Open	13.28	14.50	1.324	100	1.000	-0.11	0.862	1	1.142
2nd	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+4(4)	-	Standalone	155	5775	Open	13.28	14.50	1.324	100	1.000	0.01	0.841	1.025	1.114
1st	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	-	DSI 9	340500	1702.5	Open	21.31	22.10	1.199	-	-	0.08	1.060	1	1.271
2nd	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	-	DSI 9	340500	1702.5	Open	21.31	22.10	1.199	-	-	0.03	1.010	1.050	1.211
1st	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	-	DSI 9	27710	2310	Open	18.32	19.10	1.197	-	-	-0.01	1.080	1	1.292
2nd	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	-	DSI 9	27710	2310	Open	18.32	19.10	1.197	-	-	0.06	1.030	1.049	1.233
1st	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	-	DSI 9	507000	2535	Open	17.75	18.60	1.216	-	-	0.02	1.060	1	1.289
2nd	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	-	DSI 9	507000	2535	Open	17.75	18.60	1.216	-	-	0.09	1.030	1.029	1.253
1st	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	-	DSI 9	641666	3624.99	Open	20.95	21.70	1.189	-	-	0.06	1.080	1	1.284
2nd	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	-	DSI 9	641666	3624.99	Open	20.95	21.70	1.189	-	-	0.01	1.030	1.049	1.224
1st	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	-	DSI 9	656000	3840	Open	20.59	21.70	1.291	-	-	-0.01	0.982	1	1.268
2nd	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	-	DSI 9	656000	3840	Open	20.59	21.70	1.291	-	-	0.07	0.935	1.050	1.207
1st	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	23330	793	Open	22.83	24.00	1.309	-	-	0.06	0.963	1	1.261
2nd	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	23330	793	Open	22.83	24.00	1.309	-	-	0.01	0.958	1.005	1.254
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	Open	24.27	25.00	1.183	-	-	0.05	1.050	1	1.242
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	Open	24.27	25.00	1.183	-	-	0.03	1.010	1.040	1.195
1st	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	Open	20.65	21.30	1.161	-	-	0.04	1.100	1	1.278
2nd	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	Open	20.65	21.30	1.161	-	-	0.07	1.030	1.068	1.196
1st	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	633334	3500.01	Open	22.44	23.40	1.247	-	-	-0.09	1.030	1	1.285
2nd	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	633334	3500.01	Open	22.44	23.40	1.247	-	-	0.02	0.987	1.044	1.231
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Back	5mm	Ant 4+6(4)	-	Standalone	6	2437	Open	18.98	20.50	1.419	100	1.000	-0.03	0.900	1	1.277
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Back	5mm	Ant 4+6(4)	-	Standalone	6	2437	Open	18.98	20.50	1.419	100	1.000	0.01	0.881	1.022	1.250
1st	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	-	Standalone	138	5690	Open	18.62	19.50	1.225	100	1.000	-0.18	0.832	1	1.019
2nd	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	-	Standalone	138	5690	Open	18.62	19.50	1.225	100	1.000	0.03	0.815	1.021	0.998



<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	EUT Flip State	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	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	23230	782	Open	22.76	23.70	1.242	-	-	0.02	2.530	1	3.141
2nd	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	23230	782	Open	22.76	23.70	1.242	-	-	0.09	2.440	1.037	3.030
1st	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	Open	23.26	24.00	1.186	-	-	0.09	2.650	1	3.142
2nd	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	Open	23.26	24.00	1.186	-	-	0.01	2.540	1.043	3.012
1st	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376500	1882.5	Open	22.06	23.00	1.242	-	-	0.06	2.410	1	2.992
2nd	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376500	1882.5	Open	22.06	23.00	1.242	-	-	0.04	2.350	1.026	2.918
1st	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	27710	2310	Open	20.05	21.10	1.274	-	-	-0.05	2.400	1	3.056
2nd	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	27710	2310	Open	20.05	21.10	1.274	-	-	0.01	2.310	1.039	2.942
1st	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	Open	20.31	21.20	1.227	-	-	0.04	2.590	1	3.179
2nd	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	Open	20.31	21.20	1.227	-	-	0.01	2.450	1.057	3.007
1st	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	641666	3624.99	Open	22.32	23.80	1.406	-	-	-0.16	2.260	1	3.178
2nd	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	641666	3624.99	Open	22.32	23.80	1.406	-	-	0.03	2.120	1.066	2.981
1st	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	656000	3840	Open	23.65	24.00	1.084	-	-	-0.06	2.190	1	2.374
2nd	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	656000	3840	Open	23.65	24.00	1.084	-	-	0.01	2.040	1.074	2.211
1st	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 6	633334	3500.01	Open	23.92	24.00	1.019	-	-	0.18	2.270	1	2.312
2nd	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 6	633334	3500.01	Open	23.92	24.00	1.019	-	-	0.03	2.150	1.056	2.190
1st	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	Standalone	155	5775	Open	19.62	21.00	1.374	100	1.000	0.04	2.050	1	2.817
2nd	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	Standalone	155	5775	Open	19.62	21.00	1.374	100	1.000	0.01	2.030	1.010	2.789

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8W/kg$.
2. 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.
3. 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 n41/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 B41-Linearity Data for Head Ant0			LTE B41-Linearity Data for Head Ant1		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	26.00	Maximum Tune up Power (dBm)	19.00	20.60
Reported 1g SAR (W/kg)	0.142	0.141	Reported 1g SAR (W/kg)	0.972	0.930
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	172.38	Frame Averaged (mW)	50.28	49.72
Linearity SAR (W/kg)	0.154		Linearity SAR (W/kg)	0.961	
% deviation from expected linearity		-8.41%	% deviation from expected linearity		-3.23%
LTE B41-Linearity Data for Body-worn Ant0 Open			LTE B41-Linearity Data for Body-worn Ant1 Open		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	22.40	24.00	Maximum Tune up Power (dBm)	21.10	22.70
Reported 1g SAR (W/kg)	1.294	1.238	Reported 1g SAR (W/kg)	0.834	0.816
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	110.00	108.76	Frame Averaged (mW)	81.55	80.63
Linearity SAR (W/kg)	1.279		Linearity SAR (W/kg)	0.825	
% deviation from expected linearity		-3.24%	% deviation from expected linearity		-1.04%
LTE B41-Linearity Data for Body-worn Ant0 Close			LTE B41-Linearity Data for Body-worn Ant1 Close		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	20.60	22.20	Maximum Tune up Power (dBm)	20.40	22.00
Reported 1g SAR (W/kg)	0.938	0.874	Reported 1g SAR (W/kg)	0.939	0.899
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	72.68	71.86	Frame Averaged (mW)	69.41	68.63
Linearity SAR (W/kg)	0.927		Linearity SAR (W/kg)	0.928	
% deviation from expected linearity		-5.76%	% deviation from expected linearity		-3.17%
LTE B41-Linearity Data for Hotspot Ant0 Open			LTE B41-Linearity Data for Hotspot Ant1 Open		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	21.00	22.60	Maximum Tune up Power (dBm)	16.80	18.40
Reported 1g SAR (W/kg)	1.302	1.282	Reported 1g SAR (W/kg)	0.596	0.536
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	79.69	78.79	Frame Averaged (mW)	30.30	29.96
Linearity SAR (W/kg)	1.287		Linearity SAR (W/kg)	0.589	
% deviation from expected linearity		-0.42%	% deviation from expected linearity		-9.04%
LTE B41-Linearity Data for Hotspot Ant0 Close			LTE B41-Linearity Data for Hotspot Ant1 Close		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	18.60	20.20	Maximum Tune up Power (dBm)	14.70	16.30
Reported 1g SAR (W/kg)	0.627	0.626	Reported 1g SAR (W/kg)	0.617	0.604
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	45.86	45.34	Frame Averaged (mW)	18.68	18.47
Linearity SAR (W/kg)	0.620		Linearity SAR (W/kg)	0.610	
% deviation from expected linearity		0.98%	% deviation from expected linearity		-0.99%
LTE B41-Linearity Data for Extremity Ant0 Open			LTE B41-Linearity Data for Extremity Ant1 Open		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.80	25.40	Maximum Tune up Power (dBm)	23.00	24.60
Reported 10g SAR (W/kg)	3.169	3.154	Reported 10g SAR (W/kg)	2.444	2.422
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%



Frame Averaged (mW)	151.85	150.14	Frame Averaged (mW)	126.30	124.88
Linearity SAR (W/kg)	3.133		Linearity SAR (W/kg)	2.416	
% deviation from expected linearity		0.66%	% deviation from expected linearity		0.23%

LTE B41-Linearity Data for Head Ant2			LTE B41-Linearity Data for Head Ant3		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	24.50	Maximum Tune up Power (dBm)	17.60	19.20
Reported 1g SAR (W/kg)	0.135	0.134	Reported 1g SAR (W/kg)	0.936	0.859
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	122.04	Frame Averaged (mW)	36.43	36.02
Linearity SAR (W/kg)	0.130		Linearity SAR (W/kg)	0.925	
% deviation from expected linearity		2.73%	% deviation from expected linearity		-7.18%
LTE B41-Linearity Data for Body-worn Ant2 Open			LTE B41-Linearity Data for Body-worn Ant3 Open		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	22.60	24.20	Maximum Tune up Power (dBm)	20.40	22.00
Reported 1g SAR (W/kg)	1.308	1.237	Reported 1g SAR (W/kg)	0.864	0.858
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	115.19	113.89	Frame Averaged (mW)	69.41	68.63
Linearity SAR (W/kg)	1.293		Linearity SAR (W/kg)	0.854	
% deviation from expected linearity		-4.35%	% deviation from expected linearity		0.44%
LTE B41-Linearity Data for Body-worn Ant2 Close			LTE B41-Linearity Data for Body-worn Ant3 Close		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	21.30	22.90	Maximum Tune up Power (dBm)	22.80	24.40
Reported 1g SAR (W/kg)	0.904	0.893	Reported 1g SAR (W/kg)	0.930	0.920
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	85.39	84.43	Frame Averaged (mW)	120.62	119.26
Linearity SAR (W/kg)	0.894		Linearity SAR (W/kg)	0.920	
% deviation from expected linearity		-0.09%	% deviation from expected linearity		0.05%
LTE B41-Linearity Data for Hotspot Ant2 Open			LTE B41-Linearity Data for Hotspot Ant3 Open		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	20.80	22.40	Maximum Tune up Power (dBm)	19.00	20.60
Reported 1g SAR (W/kg)	1.293	1.251	Reported 1g SAR (W/kg)	0.627	0.617
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	76.10	75.25	Frame Averaged (mW)	50.28	49.72
Linearity SAR (W/kg)	1.278		Linearity SAR (W/kg)	0.620	
% deviation from expected linearity		-2.15%	% deviation from expected linearity		-0.47%
LTE B41-Linearity Data for Hotspot Ant2 Close			LTE B41-Linearity Data for Hotspot Ant3 Close		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	20.10	21.70	Maximum Tune up Power (dBm)	19.90	21.50
Reported 1g SAR (W/kg)	0.627	0.613	Reported 1g SAR (W/kg)	0.630	0.611
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	64.77	64.05	Frame Averaged (mW)	61.86	61.16
Linearity SAR (W/kg)	0.620		Linearity SAR (W/kg)	0.623	
% deviation from expected linearity		-1.12%	% deviation from expected linearity		-1.91%
LTE B41-Linearity Data for Extremity Ant2 Open			LTE B41-Linearity Data for Extremity Ant3 Open		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	24.50	Maximum Tune up Power (dBm)	23.20	24.80
Reported 10g SAR (W/kg)	2.093	1.951	Reported 10g SAR (W/kg)	2.475	2.471
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	122.04	Frame Averaged (mW)	132.25	130.76
Linearity SAR (W/kg)	2.022		Linearity SAR (W/kg)	2.447	
% deviation from expected linearity		-3.53%	% deviation from expected linearity		0.97%



N41-Linearity Data for Head Ant0			N41-Linearity Data for Head Ant1		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	16.60	19.60
Reported 1g SAR (W/kg)	0.184	0.175	Reported 1g SAR (W/kg)	0.931	0.847
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	45.71	45.60
Linearity SAR (W/kg)	0.184		Linearity SAR (W/kg)	0.929	
% deviation from expected linearity		-4.67%	% deviation from expected linearity		-8.81%
N41-Linearity Data for Body-worn Ant0 Open			N41-Linearity Data for Body-worn Ant1 Open		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	22.10	25.10	Maximum Tune up Power (dBm)	19.40	22.40
Reported 1g SAR (W/kg)	1.304	1.208	Reported 1g SAR (W/kg)	0.900	0.910
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	162.18	161.80	Frame Averaged (mW)	87.10	86.89
Linearity SAR (W/kg)	1.301		Linearity SAR (W/kg)	0.898	
% deviation from expected linearity		-7.14%	% deviation from expected linearity		1.35%
N41-Linearity Data for Body-worn Ant0 Close			N41-Linearity Data for Body-worn Ant1 Close		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	17.70	20.70	Maximum Tune up Power (dBm)	19.90	22.90
Reported 1g SAR (W/kg)	0.926	0.852	Reported 1g SAR (W/kg)	0.910	0.894
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	58.88	58.74	Frame Averaged (mW)	97.72	97.49
Linearity SAR (W/kg)	0.924		Linearity SAR (W/kg)	0.908	
% deviation from expected linearity		-7.77%	% deviation from expected linearity		-1.52%
N41-Linearity Data for Hotspot Ant0 Open			N41-Linearity Data for Hotspot Ant1 Open		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	20.30	23.30	Maximum Tune up Power (dBm)	15.60	18.60
Reported 1g SAR (W/kg)	1.270	1.249	Reported 1g SAR (W/kg)	0.618	0.611
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	107.15	106.90	Frame Averaged (mW)	36.31	36.22
Linearity SAR (W/kg)	1.267		Linearity SAR (W/kg)	0.617	
% deviation from expected linearity		-1.42%	% deviation from expected linearity		-0.90%
N41-Linearity Data for Hotspot Ant0 Close			N41-Linearity Data for Hotspot Ant1 Close		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	15.10	18.10	Maximum Tune up Power (dBm)	18.20	21.20
Reported 1g SAR (W/kg)	0.624	0.585	Reported 1g SAR (W/kg)	0.618	0.613
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	32.36	32.28	Frame Averaged (mW)	66.07	65.91
Linearity SAR (W/kg)	0.623		Linearity SAR (W/kg)	0.617	
% deviation from expected linearity		-6.03%	% deviation from expected linearity		-0.57%
N41-Linearity Data for Extremity Ant0 Open			N41-Linearity Data for Extremity Ant1 Open		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00	Maximum Tune up Power (dBm)	21.50	24.50
Reported 10g SAR (W/kg)	3.178	3.029	Reported 10g SAR (W/kg)	2.470	2.379
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11	Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	3.170		Linearity SAR (W/kg)	2.464	
% deviation from expected linearity		-4.46%	% deviation from expected linearity		-3.46%



N41-Linearity Data for Head Ant2			N41-Linearity Data for Head Ant3		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	15.80	18.80
Reported 1g SAR (W/kg)	0.079	0.078	Reported 1g SAR (W/kg)	0.929	0.839
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	38.02	37.93
Linearity SAR (W/kg)	0.079		Linearity SAR (W/kg)	0.927	
% deviation from expected linearity		-1.03%	% deviation from expected linearity		-9.47%
N41-Linearity Data for Body-worn Ant2 Open			N41-Linearity Data for Body-worn Ant3 Open		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	21.40	24.40	Maximum Tune up Power (dBm)	19.80	22.80
Reported 1g SAR (W/kg)	1.281	1.206	Reported 1g SAR (W/kg)	0.872	0.928
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	138.04	137.71	Frame Averaged (mW)	95.50	95.27
Linearity SAR (W/kg)	1.278		Linearity SAR (W/kg)	0.870	
% deviation from expected linearity		-5.63%	% deviation from expected linearity		6.67%
N41-Linearity Data for Body-worn Ant2 Close			N41-Linearity Data for Body-worn Ant3 Close		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	20.30	23.30	Maximum Tune up Power (dBm)	21.60	24.60
Reported 1g SAR (W/kg)	0.916	0.856	Reported 1g SAR (W/kg)	0.930	0.865
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	107.15	106.90	Frame Averaged (mW)	144.54	144.20
Linearity SAR (W/kg)	0.914		Linearity SAR (W/kg)	0.928	
% deviation from expected linearity		-6.33%	% deviation from expected linearity		-6.77%
N41-Linearity Data for Hotspot Ant2 Open			N41-Linearity Data for Hotspot Ant3 Open		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	20.40	23.40	Maximum Tune up Power (dBm)	18.30	21.30
Reported 1g SAR (W/kg)	1.284	1.254	Reported 1g SAR (W/kg)	0.631	0.581
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	109.65	109.39	Frame Averaged (mW)	67.61	67.45
Linearity SAR (W/kg)	1.281		Linearity SAR (W/kg)	0.630	
% deviation from expected linearity		-2.10%	% deviation from expected linearity		-7.71%
N41-Linearity Data for Hotspot Ant2 Close			N41-Linearity Data for Hotspot Ant3 Close		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00	Maximum Tune up Power (dBm)	19.90	22.90
Reported 1g SAR (W/kg)	0.625	0.579	Reported 1g SAR (W/kg)	0.615	0.612
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24	Frame Averaged (mW)	97.72	97.49
Linearity SAR (W/kg)	0.624		Linearity SAR (W/kg)	0.614	
% deviation from expected linearity		-7.14%	% deviation from expected linearity		-0.25%
N41-Linearity Data for Extremity Ant2 Open			N41-Linearity Data for Extremity Ant3 Open		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	22.50	25.50	Maximum Tune up Power (dBm)	21.20	24.20
Reported 10g SAR (W/kg)	3.169	3.009	Reported 10g SAR (W/kg)	2.484	2.475
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	177.83	177.41	Frame Averaged (mW)	131.83	131.51
Linearity SAR (W/kg)	3.161		Linearity SAR (W/kg)	2.478	
% deviation from expected linearity		-4.82%	% deviation from expected linearity		-0.13%



N77 Part 270-Linearity Data for Head Ant1			N77 Part 270-Linearity Data for Head Ant2		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	13.50	16.50	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.111	0.110	Reported 1g SAR (W/kg)	0.435	0.401
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	22.39	22.33	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.111		Linearity SAR (W/kg)	0.434	
% deviation from expected linearity		-0.67%	% deviation from expected linearity		-7.60%
N77 Part 27Q-Linearity Data for Head Ant1			N77 Part 27Q-Linearity Data for Head Ant2		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	13.50	16.50	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.927	0.863	Reported 1g SAR (W/kg)	0.231	0.217
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	22.39	22.33	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.925		Linearity SAR (W/kg)	0.230	
% deviation from expected linearity		-6.68%	% deviation from expected linearity		-5.84%
N77 Part 270-Linearity Data for Body-worn Ant1 Open			N77 Part 270-Linearity Data for Body-worn Ant2 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00	Maximum Tune up Power (dBm)	23.40	26.40
Reported 1g SAR (W/kg)	0.264	0.242	Reported 1g SAR (W/kg)	1.152	1.140
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24	Frame Averaged (mW)	218.78	218.26
Linearity SAR (W/kg)	0.263		Linearity SAR (W/kg)	1.149	
% deviation from expected linearity		-8.12%	% deviation from expected linearity		-0.81%
N77 Part 27Q-Linearity Data for Body-worn Ant1 Open			N77 Part 27Q-Linearity Data for Body-worn Ant2 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00	Maximum Tune up Power (dBm)	23.40	26.40
Reported 1g SAR (W/kg)	0.920	0.913	Reported 1g SAR (W/kg)	1.285	1.226
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24	Frame Averaged (mW)	218.78	218.26
Linearity SAR (W/kg)	0.918		Linearity SAR (W/kg)	1.282	
% deviation from expected linearity		-0.53%	% deviation from expected linearity		-4.36%
N77 Part 270-Linearity Data for Body-worn Ant1 Close			N77 Part 270-Linearity Data for Body-worn Ant2 Close		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	27.50	Maximum Tune up Power (dBm)	21.70	24.70
Reported 1g SAR (W/kg)	0.603	0.578	Reported 1g SAR (W/kg)	0.928	0.921
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	281.84	281.17	Frame Averaged (mW)	147.91	147.56
Linearity SAR (W/kg)	0.602		Linearity SAR (W/kg)	0.926	
% deviation from expected linearity		-3.92%	% deviation from expected linearity		-0.52%
N77 Part 27Q-Linearity Data for Body-worn Ant1 Close			N77 Part 27Q-Linearity Data for Body-worn Ant2 Close		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	27.50	Maximum Tune up Power (dBm)	21.70	24.70
Reported 1g SAR (W/kg)	0.821	0.787	Reported 1g SAR (W/kg)	0.804	0.793
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	281.84	281.17	Frame Averaged (mW)	147.91	147.56
Linearity SAR (W/kg)	0.819		Linearity SAR (W/kg)	0.802	
% deviation from expected linearity		-3.91%	% deviation from expected linearity		-1.13%
N77 Part 270-Linearity Data for Hotspot Ant1 Open			N77 Part 270-Linearity Data for Hotspot Ant2 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	13.40	16.40	Maximum Tune up Power (dBm)	21.70	24.70
Reported 1g SAR (W/kg)	0.137	0.128	Reported 1g SAR (W/kg)	1.268	1.176



Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	21.88	21.83	Frame Averaged (mW)	147.91	147.56
Linearity SAR (W/kg)	0.137		Linearity SAR (W/kg)	1.265	
% deviation from expected linearity		-6.35%	% deviation from expected linearity		-7.04%
N77 Part 27Q-Linearity Data for Hotspot Ant1 Open			N77 Part 27Q-Linearity Data for Hotspot Ant2 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	13.40	16.40	Maximum Tune up Power (dBm)	21.70	24.70
Reported 1g SAR (W/kg)	0.616	0.596	Reported 1g SAR (W/kg)	0.883	0.858
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	21.88	21.83	Frame Averaged (mW)	147.91	147.56
Linearity SAR (W/kg)	0.615		Linearity SAR (W/kg)	0.881	
% deviation from expected linearity		-3.02%	% deviation from expected linearity		-2.60%
N77 Part 27O-Linearity Data for Hotspot Ant1 Close			N77 Part 27O-Linearity Data for Hotspot Ant2 Close		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	12.60	15.60	Maximum Tune up Power (dBm)	20.20	23.20
Reported 1g SAR (W/kg)	0.106	0.101	Reported 1g SAR (W/kg)	0.628	0.578
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	18.20	18.15	Frame Averaged (mW)	104.71	104.46
Linearity SAR (W/kg)	0.106		Linearity SAR (W/kg)	0.627	
% deviation from expected linearity		-4.49%	% deviation from expected linearity		-7.74%
N77 Part 27Q-Linearity Data for Hotspot Ant1 Close			N77 Part 27Q-Linearity Data for Hotspot Ant2 Close		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	12.60	15.60	Maximum Tune up Power (dBm)	20.20	23.20
Reported 1g SAR (W/kg)	0.625	0.617	Reported 1g SAR (W/kg)	0.548	0.504
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	18.20	18.15	Frame Averaged (mW)	104.71	104.46
Linearity SAR (W/kg)	0.624		Linearity SAR (W/kg)	0.547	
% deviation from expected linearity		-1.05%	% deviation from expected linearity		-7.81%
N77 Part 27O-Linearity Data for Extremity Ant1 Open			N77 Part 27O-Linearity Data for Extremity Ant2 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.30	24.30	Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	2.440	2.361	Reported 10g SAR (W/kg)	2.374	2.325
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	134.90	134.58	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	2.434		Linearity SAR (W/kg)	2.368	
% deviation from expected linearity		-3.01%	% deviation from expected linearity		-1.83%
N77 Part 27Q-Linearity Data for Extremity Ant1 Open			N77 Part 27Q-Linearity Data for Extremity Ant2 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.30	24.30	Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	2.374	2.325	Reported 10g SAR (W/kg)	2.312	2.164
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	134.90	134.58	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	2.368		Linearity SAR (W/kg)	2.307	
% deviation from expected linearity		-1.83%	% deviation from expected linearity		-6.18%



N77 Part 270-Linearity Data for Head Ant3			N77 Part 270-Linearity Data for Head Ant5		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.70	18.70	Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.837	0.784	Reported 1g SAR (W/kg)	0.625	0.619
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	37.15	37.07	Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.835		Linearity SAR (W/kg)	0.624	
% deviation from expected linearity		-6.11%	% deviation from expected linearity		-0.72%
N77 Part 27Q-Linearity Data for Head Ant3			N77 Part 27Q-Linearity Data for Head Ant5		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.70	18.70	Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.930	0.869	Reported 1g SAR (W/kg)	0.924	0.876
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	37.15	37.07	Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.928		Linearity SAR (W/kg)	0.922	
% deviation from expected linearity		-6.34%	% deviation from expected linearity		-4.97%
N77 Part 270-Linearity Data for Body-worn Ant3 Open			N77 Part 270-Linearity Data for Body-worn Ant5 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.90	20.90	Maximum Tune up Power (dBm)	20.50	23.50
Reported 1g SAR (W/kg)	0.911	0.884	Reported 1g SAR (W/kg)	0.494	0.489
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	61.66	61.51	Frame Averaged (mW)	112.20	111.94
Linearity SAR (W/kg)	0.909		Linearity SAR (W/kg)	0.493	
% deviation from expected linearity		-2.73%	% deviation from expected linearity		-0.78%
N77 Part 27Q-Linearity Data for Body-worn Ant3 Open			N77 Part 27Q-Linearity Data for Body-worn Ant5 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.90	20.90	Maximum Tune up Power (dBm)	20.50	23.50
Reported 1g SAR (W/kg)	0.826	0.779	Reported 1g SAR (W/kg)	0.916	0.899
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	61.66	61.51	Frame Averaged (mW)	112.20	111.94
Linearity SAR (W/kg)	0.824		Linearity SAR (W/kg)	0.914	
% deviation from expected linearity		-5.47%	% deviation from expected linearity		-1.62%
N77 Part 270-Linearity Data for Body-worn Ant3 Close			N77 Part 270-Linearity Data for Body-worn Ant5 Close		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.80	21.80	Maximum Tune up Power (dBm)	21.00	24.00
Reported 1g SAR (W/kg)	0.928	0.916	Reported 1g SAR (W/kg)	0.527	0.524
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	75.86	75.68	Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	0.926		Linearity SAR (W/kg)	0.526	
% deviation from expected linearity		-1.06%	% deviation from expected linearity		-0.33%
N77 Part 27Q-Linearity Data for Body-worn Ant3 Close			N77 Part 27Q-Linearity Data for Body-worn Ant5 Close		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.80	21.80	Maximum Tune up Power (dBm)	21.00	24.00
Reported 1g SAR (W/kg)	0.649	0.607	Reported 1g SAR (W/kg)	0.928	0.912
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	75.86	75.68	Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	0.647		Linearity SAR (W/kg)	0.926	
% deviation from expected linearity		-6.25%	% deviation from expected linearity		-1.49%
N77 Part 270-Linearity Data for Hotspot Ant3 Open			N77 Part 270-Linearity Data for Hotspot Ant5 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	11.60	14.60	Maximum Tune up Power (dBm)	13.60	16.60
Reported 1g SAR (W/kg)	0.618	0.559	Reported 1g SAR (W/kg)	0.208	0.204



Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	14.45	14.42	Frame Averaged (mW)	22.91	22.85
Linearity SAR (W/kg)	0.617		Linearity SAR (W/kg)	0.208	
% deviation from expected linearity		-9.33%	% deviation from expected linearity		-1.69%
N77 Part 27Q-Linearity Data for Hotspot Ant3 Open			N77 Part 27Q-Linearity Data for Hotspot Ant5 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	11.60	14.60	Maximum Tune up Power (dBm)	13.60	16.60
Reported 1g SAR (W/kg)	0.398	0.362	Reported 1g SAR (W/kg)	0.617	0.566
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	14.45	14.42	Frame Averaged (mW)	22.91	22.85
Linearity SAR (W/kg)	0.397		Linearity SAR (W/kg)	0.616	
% deviation from expected linearity		-8.83%	% deviation from expected linearity		-8.05%
N77 Part 27O-Linearity Data for Hotspot Ant3 Close			N77 Part 27O-Linearity Data for Hotspot Ant5 Close		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	12.60	15.60	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.628	0.566	Reported 1g SAR (W/kg)	0.309	0.290
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	18.20	18.15	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.627		Linearity SAR (W/kg)	0.308	
% deviation from expected linearity		-9.66%	% deviation from expected linearity		-5.93%
N77 Part 27Q-Linearity Data for Hotspot Ant3 Close			N77 Part 27Q-Linearity Data for Hotspot Ant5 Close		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	12.60	15.60	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.468	0.423	Reported 1g SAR (W/kg)	0.610	0.555
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	18.20	18.15	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.467		Linearity SAR (W/kg)	0.609	
% deviation from expected linearity		-9.40%	% deviation from expected linearity		-8.80%
N77 Part 27O-Linearity Data for Extremity Ant3 Open			N77 Part 27O-Linearity Data for Extremity Ant5 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.50	22.50	Maximum Tune up Power (dBm)	22.20	25.20
Reported 10g SAR (W/kg)	2.098	1.920	Reported 10g SAR (W/kg)	2.274	2.063
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	89.13	88.91	Frame Averaged (mW)	165.96	165.57
Linearity SAR (W/kg)	2.093		Linearity SAR (W/kg)	2.269	
% deviation from expected linearity		-8.27%	% deviation from expected linearity		-9.06%
N77 Part 27Q-Linearity Data for Extremity Ant3 Open			N77 Part 27Q-Linearity Data for Extremity Ant5 Open		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.50	22.50	Maximum Tune up Power (dBm)	22.20	25.20
Reported 10g SAR (W/kg)	2.490	2.394	Reported 10g SAR (W/kg)	2.482	2.234
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	89.13	88.91	Frame Averaged (mW)	165.96	165.57
Linearity SAR (W/kg)	2.484		Linearity SAR (W/kg)	2.476	
% deviation from expected linearity		-3.63%	% deviation from expected linearity		-9.78%

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
13.	WWAN + WLAN2.4GHz+NFC				Yes
14.	WWAN + WLAN5GHz+NFC				Yes
15.	WWAN + WLAN6GHz+NFC				Yes
16.	WWAN + Bluetooth+NFC				Yes
17.	WLAN2.4GHz + WLAN5GHz+NFC				Yes
18.	WLAN2.4GHz + WLAN6GHz+NFC				Yes
19.	WLAN5GHz+ Bluetooth+NFC				Yes
20.	WLAN6GHz+ Bluetooth+NFC				Yes
21.	WWAN + WLAN2.4GHz + WLAN5GHz+NFC				Yes
22.	WWAN + WLAN2.4GHz + WLAN6GHz+NFC				Yes
23.	WWAN + WLAN5GHz+ Bluetooth+NFC				Yes
24.	WWAN + WLAN6GHz+ Bluetooth+NFC				Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands.
- The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 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.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- 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). WLAN 6GHz has no hotspot function.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- According to the EUT characteristic, two Bluetooth antennas cannot transmit simultaneously with each other.
- WLAN 2.4GHz and Bluetooth share the same antenna, and they cannot transmit simultaneously each other.
- According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- For standalone WWAN in Flip open state, always choose the highest SAR among all WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.
- For standalone WWAN in Flip Close state, always choose the highest SAR among all WWAN bands within all



antennas for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.

17. The maximum SAR summation is calculated based on the same configuration and test position.
18. 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.
19. 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) $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, 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.
20. The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results. The simultaneous transmission and test exemption analysis per KDB 447498 D01, and the device does not support FR2 or another MPE field measurement, therefore SAR report in section 17 has include TER analysis requirement according to KDB 987594.

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

Else, if $A + C > 1.0$ and/or $B + C > 1.0$, then the followings need to hold true for compliance:

- i. A and C are decoupled based on the SPLSR criteria, and
- ii. $(100-x)\% * B + C \leq 1.0$, and
- iii. $x\% * A + (100-x)\% * B \leq 1.0$

Note iii. is covered in Part 2 report; i. and ii. should be addressed in Part 2 report.

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, NR(SISO1) + NR(SISO2) + 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.



17.2 Head Exposure Conditions

< Flip Open >

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	1+3	1+6+8	1+6+9	1+10+8	1+10+9	1+4+7	1+4+10	2+5	2+10
		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 DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+4 DBS Only 1g SAR (W/kg)	WLAN5GHz Ant 5+4 non DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+4 DBS 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	WLAN6GHz Ant 5+4 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)
All Bands	Right Cheek	0.972	0.793	0.404	0.193	0.791	0.390	0.193	0.124	0.088	0.070	1.38	1.49	1.45	1.17	1.13	1.36	1.24	1.58	0.86
	Right Tilted	0.804	0.595	0.301	0.143	0.499	0.246	0.122	0.124	0.088	0.082	1.11	1.17	1.14	1.01	0.97	1.07	1.03	1.09	0.68
	Left Cheek	0.936	0.735	0.381	0.186	0.797	0.394	0.193	0.124	0.088	0.438	1.32	1.45	1.42	1.50	1.46	1.32	1.56	1.53	1.17
	Left Tilted	0.930	0.229	0.115	0.055	0.273	0.134	0.067	0.124	0.088	0.111	1.05	1.19	1.15	1.17	1.13	1.05	1.10	0.50	0.34

17.3 Hotspot Exposure Conditions

<Flip open>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2	1+4+6	1+4+7	1+3+5
		WWAN	WLAN2.4GHz Ant 4+6 non DBS	WLAN2.4GHz Ant 4+6 DBS	WLAN5GHz Ant 5+4 non DBS	WLAN5GHz Ant 5+4 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)
All Bands Ant1&3&5	Front	0.644	0.539	0.238	0.414	0.255	0.331	0.304	1.18	1.39	1.36	1.14
	Back	0.628	0.572	0.254	0.307	0.152	0.319	0.352	1.20	1.25	1.29	1.03
	Left side	0.634	0.144	0.044	0.206	0.121	0.158		0.78	1.00	0.84	0.80
	Right side	0.644	0.315	0.128	0.557	0.276		0.364	0.96	1.20	1.57	1.05
	Top side	0.628	0.313	0.126	0.554	0.217	0.206		0.94	1.39	1.18	0.97
	Bottom side								0.00	0.00	0.00	0.00
All Bands Ant0&2	Front	1.104	0.539	0.238	0.414	0.255	0.331	0.304	1.64	1.85	1.82	1.60
	Back	1.305	0.572	0.254	0.307	0.152	0.319	0.352	1.88	1.93	1.96	1.71
	Left side	1.118	0.144	0.044	0.206	0.121	0.158		1.26	1.48	1.32	1.28
	Right side	0.652	0.315	0.128	0.557	0.276		0.364	0.97	1.21	1.57	1.06
	Top side		0.313	0.126	0.554	0.217	0.206		0.31	0.76	0.55	0.34
	Bottom side	1.302							1.30	1.30	1.30	1.30

Note: The results marked yellow is greater than 1.6 W/kg in above table, there are needed further analysis required for compliance demonstration of the simultaneous combinations. Please refer to the detailed analysis corresponding to each position in section 17.6.

<Simultaneous Transmission analysis of WLAN/BT only without WWAN>

NO	1	2	3	4	5	6			
Test Position	WLAN2.4GHz Ant 4+6 non DBS	WLAN2.4GHz Ant 4+6 DBS	WLAN5GHz Ant 5+4 non DBS	WLAN5GHz Ant 5+4 DBS	Bluetooth Ant 4	Bluetooth Ant 6	3+5	3+6	2+4
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.779	0.345	0.148	0.739	0.358	0.171	0.51	0.32	1.08
Back	0.788	0.349	0.136	0.708	0.342	0.070	0.48	0.21	1.06

Note: Confirm the combination of WLAN/BT antennas, the sum of the SAR of the supported simultaneous transmission scenes is less than Limit, thus avoiding SPLSR.

<Flip Close >

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2	1+3+5	1+4+6	1+4+7
		WWAN	WLAN2.4GHz Ant 4+6 non DBS	WLAN2.4GHz Ant 4+6 DBS	WLAN5GHz Ant 5+4 non DBS	WLAN5GHz Ant 5+4 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)
All Bands	Front	0.629	0.311	0.311	0.285	0.169	0.259	0.234	0.94	1.11	1.17	1.15
	Back	0.733	0.108	0.108	0.119	0.119	0.128		0.84	0.96	0.98	0.85
	Left side	0.636	0.118	0.118	0.237	0.237	0.169		0.75	0.99	1.04	0.87
	Right side	0.635	0.232	0.232	0.430	0.278	0.029	0.355	0.87	1.15	1.09	1.42
	Top side	0.126	0.032	0.032	0.052	0.052			0.16	0.21	0.18	0.18
	Bottom side	0.708	0.162	0.162	0.230	0.230	0.164		0.87	1.10	1.10	0.94



17.4 Body-Worn Accessory Exposure Conditions

<Flip open>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	1+3	1+6+8	1+6+9	1+10+8	1+10+9	1+4+7	1+4+10	2+5	2+10
		WWAN 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 non DBS 1g SAR (W/kg)	WLAN2.4GHz Ant 4+6 DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+4 DBS Only 1g SAR (W/kg)	WLAN5GHz Ant 5+4 non DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+4 DBS 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	WLAN6GHz Ant 5+4 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)
All Band Ant1&3&5	Front	0.806	0.779	0.345	0.148	0.739	0.358	0.171	0.331	0.344	0.184	1.15	1.50	1.51	1.32	1.33	1.13	1.14	1.52	0.96
	Back	0.809	0.788	0.349	0.136	0.708	0.342	0.070	0.319	0.404	0.144	1.16	1.47	1.56	1.27	1.36	1.02	1.09	1.50	0.93
All Band Ant0&2	Front	1.285	0.779	0.345	0.148	0.739	0.358	0.171	0.331	0.344	0.184	1.63	1.97	1.99	1.80	1.81	1.60	1.62	1.52	0.96
	Back	1.314	0.788	0.349	0.136	0.708	0.342	0.070	0.319	0.404	0.144	1.66	1.98	2.06	1.78	1.86	1.52	1.59	1.50	0.93

Note: The results marked yellow is greater than 1.6 W/kg in above table, there are needed further analysis required for compliance demonstration of the simultaneous combinations. Please refer to the detailed analysis corresponding to each position in section 17.6.

<Simultaneous Transmission analysis of WLAN/BT only without WWAN>

NO	1	2	3	4	5	6	7	8	9	1+4	1+9	2+7	2+8	9+7	9+8	3+6	3+9
Test Position	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 DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+4 DBS Only 1g SAR (W/kg)	WLAN5GHz Ant 5+4 non DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+4 DBS 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	WLAN6GHz Ant 5+4 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)
	Front	0.779	0.345	0.148	0.739	0.358	0.171	0.331	0.344	0.184	1.52	0.96	0.68	0.69	0.52	0.53	0.32
Back	0.788	0.349	0.136	0.708	0.342	0.070	0.319	0.404	0.144	1.50	0.93	0.67	0.75	0.46	0.55	0.21	0.28

Note: Confirm the combination of WLAN/BT antennas, the sum of the SAR of the supported simultaneous transmission scenes is less than Limit, thus avoiding SPLSR.

Sensor off

WWAN Band	Exposure Position	1	2	3	1+2+3
		WWAN	WLAN2.4GHz Ant 5+4	WLAN5GHz Ant 5+4	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Front	0.725	0.396	0.324	1.05
	Back	0.713	0.376	0.288	1.00

<Flip Close >

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	1+3	1+6+8	1+6+9	1+10+8	1+10+9	1+4+7	1+4+10	2+5	2+10
		WWAN 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 non DBS 1g SAR (W/kg)	WLAN2.4GHz Ant 4+6 DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+4 DBS Only 1g SAR (W/kg)	WLAN5GHz Ant 5+4 non DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+4 DBS 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	WLAN6GHz Ant 5+4 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)
All Bands	Front	0.829	0.550	0.266	0.148	0.635	0.334	0.334	0.259	0.242	0.162	1.10	1.42	1.41	1.25	1.23	1.31	1.14	1.19	0.71
	Back	0.800	0.188	0.090	0.051	0.276	0.276	0.276	0.128	0.001	0.082	0.89	1.20	1.08	1.01	0.88	1.13	0.93	0.46	0.27

Sensor off

WWAN Band	Exposure Position	1	2	3	1+2+3
		WWAN	WLAN2.4GHz Ant 5+4 Close	WLAN5GHz Ant 5+4 Close	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Front	0.748	0.303	0.502	1.55
	Back	0.750	0.077	0.149	0.98



17.5 Product specific 10g SAR Exposure Conditions

Remark:

- 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.

<Flip open>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+3+9	1+6+9	1+8+9	1+4+7+9	1+4+8+9	2+5+9	2+8+9	
		WWAN	WLAN2.4GHz Ant 4+6 DBS Only	WLAN2.4GHz Ant 4+6 non DBS	WLAN2.4GHz Ant 4+6 DBS	WLAN5GHz Ant 5+4 DBS Only	WLAN5GHz Ant 5+4 non DBS	WLAN5GHz Ant 5+4 DBS	WLAN6GHz Ant 5+4	NFC	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)
All Bands	Front	2.487	1.634	0.857	0.340	1.590	0.910	0.483	0.134	0.002	3.35	3.40	2.62	3.31	2.96	3.23	1.77	
	Back	3.144	1.295	0.625	0.279	1.714	0.813	0.483	0.027	0.015	3.78	3.97	3.19	3.92	3.47	3.02	1.34	
	Left side	3.178				1.343	0.770	0.382	0.030	0.001	3.18	3.95	3.21	3.56	3.21	1.34	0.03	
	Right side	2.487	0.682	0.312	0.150	1.778	1.021	0.506	0.183	0.001	2.80	3.51	2.67	3.14	2.82	2.46	0.87	
	Top side	2.490	1.715	0.904	0.447	1.125	0.638	0.329	0.175	0.002	3.40	3.13	2.67	3.27	3.11	2.84	1.89	
	Bottom side	3.205								0.002	3.21	3.21	3.21	3.21	3.21	0.00	0.00	

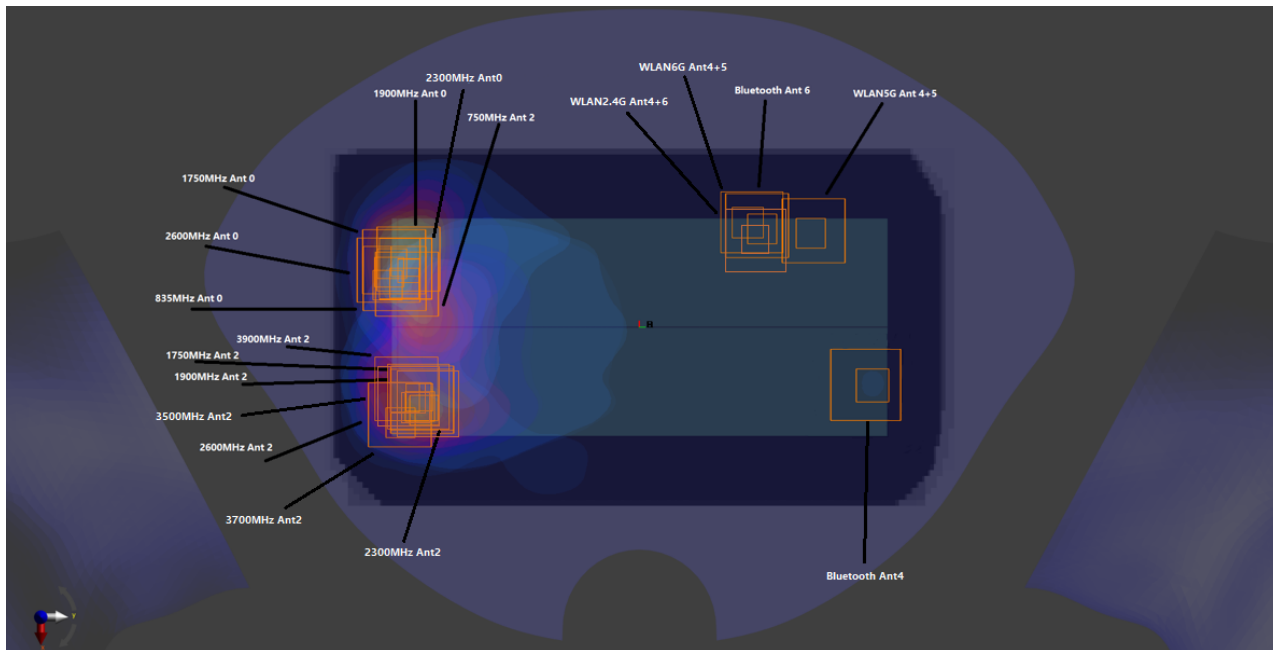
17.6 SPLSR Evaluation and Analysis

General Note:

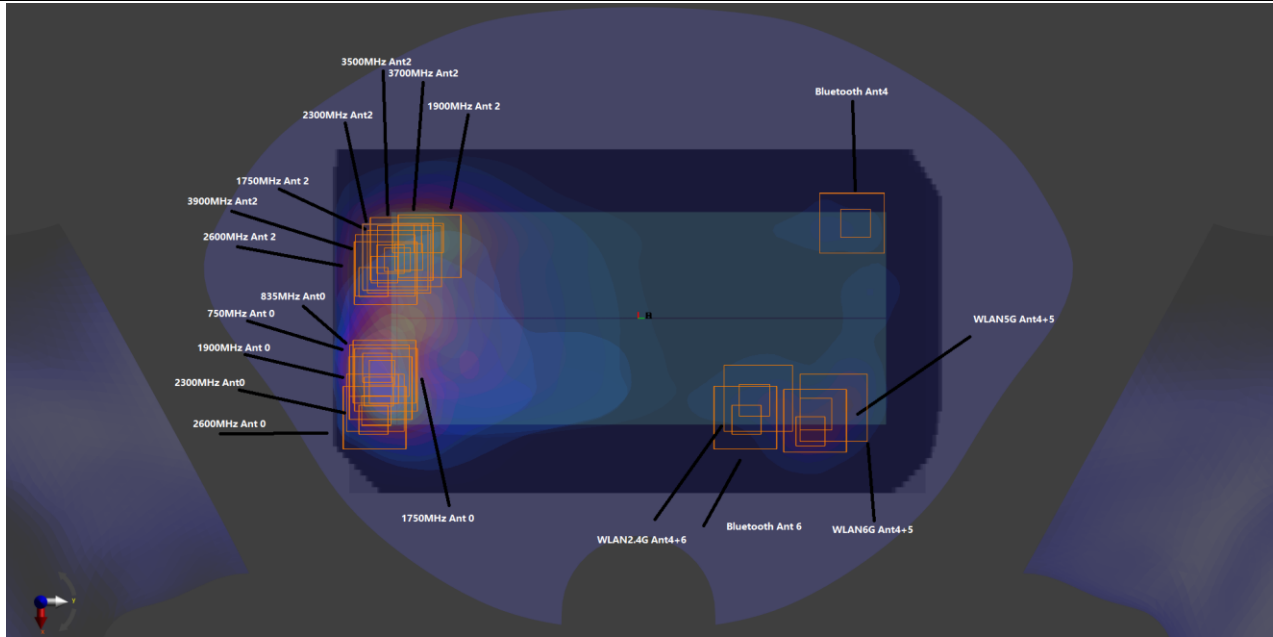
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, 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. If SPLSR criteria evaluation and analysis is needed to determine compliance for a certain DSI configuration, SPLSR is performed by taking the highest reported SAR for each of the supported technologies and bands per antenna, along with the peak SAR locations.
 - 1) Obtain the highest reported multi-band SAR out of all supported technologies/bands per antenna per exposure position in section 17, so determine the highest reported multi-band SAR per tech/band/antenna /exposure position of the co-located antenna pair to be conservative.
 - 2) Determine the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative, please refer to section 17.7.
 - 3) Per April 2022 TCB Workshop, 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.
4. The following formula is used to calculate the SPLSR between WWAN Band and WLAN/BT for each exposure configuration:

$$SPLSR = \frac{(SAR_1 + SAR_2)^{1.5}}{\text{Min Distace}}$$

- 1) SAR1 and SAR2 are the highest reported or estimated SAR values for each antenna in the pair, SAR1+SAR2 Used the max Summed SAR out of all supported technologies/bands per antenna per exposure position.
- 2) Min Distane for the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair.



WWAN+WLAN+BT_Back 5mm



WWAN+WLAN+BT_Front 5mm

For Hotspot:

Position	Min 3D distance (mm)	Max Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Front	123.6	1.85	0.02	Not required

Position	Min 3D distance (mm)	Max Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Back	120.1	1.96	0.02	Not required

Note:

1. Please refer to section 17.3 for the max Summed SAR out of all supported technologies/bands per antenna per exposure position.
2. Please refer to section 17.7 for the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair.

For Body-worn:

Position	Min 3D distance (mm)	Max Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Front	123.6	1.99	0.02	Not required

Position	Min 3D distance (mm)	Max Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Back	120.1	2.06	0.02	Not required

Note:

1. Please refer to section 17.4 for the max Summed SAR out of all supported technologies/bands per antenna per exposure position.
2. Please refer to section 17.7 for the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair.

17.7 Separation distance between Peak SAR locations of each one pair Calculation results

General Note:

1. Recorded for each of the supported technology/bands per antenna, in addition to the maximum reported SAR, the SAR hotspot location in a coordinate system aligned along with device dimensions (x-axis along width, y-axis along width and z-axis along length), please refer to below tables.
2. Calculate results of the separation distance between the peak SAR locations for each one antenna pair with WWAN band ant0/2 and WLAN/BT ant4/5/6, please refer to below tables.
3. Determine the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.

Front

Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
GSM850-Ant0	Front	5mm	-35	-79.3	-203	125.4	GSM1900-Ant2	Front	5mm	-55	-81.2	-203.4	134.9
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
GSM850-Ant0	Front	5mm	-35	-79.3	-203	148.6	GSM1900-Ant2	Front	5mm	-55	-81.2	-203.4	158.1
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
GSM850-Ant0	Front	5mm	-35	-79.3	-203	146.1	GSM1900-Ant2	Front	5mm	-55	-81.2	-203.4	155.0
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
GSM850-Ant0	Front	5mm	-35	-79.3	-203	158.3	GSM1900-Ant2	Front	5mm	-55	-81.2	-203.4	158.9
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
GSM850-Ant0	Front	5mm	-35	-79.3	-203	127.0	GSM1900-Ant2	Front	5mm	-55	-81.2	-203.4	137.2
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
GSM850-Ant0	Front	5mm	-35	-79.3	-203	167.9	GSM1900-Ant2	Front	5mm	-55	-81.2	-203.4	180.4
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
GSM850-Ant0	Front	5mm	-35	-79.3	-203	166.3	GSM1900-Ant2	Front	5mm	-55	-81.2	-203.4	177.3
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
GSM850-Ant0	Front	5mm	-35	-79.3	-203	166.7	GSM1900-Ant2	Front	5mm	-55	-81.2	-203.4	178.5
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap (mm)	X	Y	Z	3D distance (mm)	Band	Position	Gap (mm)	X	Y	Z	3D distance (mm)
GSM1900-Ant0	Front	5mm	-10	-95.8	-203.4	136.2	WCDMA II-Ant2	Front	5mm	-55	-80.8	-203.4	134.5
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
GSM1900-Ant0	Front	5mm	-10	-95.8	-203.4	158.4	WCDMA II-Ant2	Front	5mm	-55	-80.8	-203.4	157.8
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
GSM1900-Ant0	Front	5mm	-10	-95.8	-203.4	157.2	WCDMA II-Ant2	Front	5mm	-55	-80.8	-203.4	154.6
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
GSM1900-Ant0	Front	5mm	-10	-95.8	-203.4	179.2	WCDMA II-Ant2	Front	5mm	-55	-80.8	-203.4	158.5
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
GSM1900-Ant0	Front	5mm	-10	-95.8	-203.4	136.5	WCDMA II-Ant2	Front	5mm	-55	-80.8	-203.4	136.9
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
GSM1900-Ant0	Front	5mm	-10	-95.8	-203.4	172.1	WCDMA II-Ant2	Front	5mm	-55	-80.8	-203.4	180.0
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
GSM1900-Ant0	Front	5mm	-10	-95.8	-203.4	173.3	WCDMA II-Ant2	Front	5mm	-55	-80.8	-203.4	177.0
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
GSM1900-Ant0	Front	5mm	-10	-95.8	-203.4	172.3	WCDMA II-Ant2	Front	5mm	-55	-80.8	-203.4	178.1
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap	SAR peak location (mm)			3D distance	Band	Position	Gap	SAR peak location (mm)			3D distance



	Position	SAR peak location (mm)				3D distance (mm)		Position	SAR peak location (mm)				3D distance (mm)
		Gap (mm)	X	Y	Z				Band	Position	Gap (mm)	X	
WCDMA II-Ant0	Front	5mm	-10	-95.3	-203.4	135.7	WCDMA IV-Ant2	Front	5mm	-55	-80.9	-203.4	134.6
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
WCDMA II-Ant0	Front	5mm	-10	-95.3	-203.4	157.9	WCDMA IV-Ant2	Front	5mm	-55	-80.9	-203.4	157.9
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
WCDMA II-Ant0	Front	5mm	-10	-95.3	-203.4	156.7	WCDMA IV-Ant2	Front	5mm	-55	-80.9	-203.4	154.7
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
WCDMA II-Ant0	Front	5mm	-10	-95.3	-203.4	178.8	WCDMA IV-Ant2	Front	5mm	-55	-80.9	-203.4	158.6
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
WCDMA II-Ant0	Front	5mm	-10	-95.3	-203.4	136.0	WCDMA IV-Ant2	Front	5mm	-55	-80.9	-203.4	137.0
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
WCDMA II-Ant0	Front	5mm	-10	-95.3	-203.4	171.7	WCDMA IV-Ant2	Front	5mm	-55	-80.9	-203.4	180.1
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
WCDMA II-Ant0	Front	5mm	-10	-95.3	-203.4	172.9	WCDMA IV-Ant2	Front	5mm	-55	-80.9	-203.4	177.1
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
WCDMA II-Ant0	Front	5mm	-10	-95.3	-203.4	171.8	WCDMA IV-Ant2	Front	5mm	-55	-80.9	-203.4	178.2
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap (mm)	X	Y	Z	3D distance (mm)	Band	Position	Gap (mm)	X	Y	Z	3D distance (mm)
WCDMA IV-Ant0	Front	5mm	-10	-87.9	-203.5	128.4	LTE Band 7-Ant2	Front	5mm	-49	-82.6	-203.5	133.6
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
WCDMA IV-Ant0	Front	5mm	-10	-87.9	-203.5	150.6	LTE Band 7-Ant2	Front	5mm	-49	-82.6	-203.5	156.9
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
WCDMA IV-Ant0	Front	5mm	-10	-87.9	-203.5	149.3	LTE Band 7-Ant2	Front	5mm	-49	-82.6	-203.5	153.9
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
WCDMA IV-Ant0	Front	5mm	-10	-87.9	-203.5	171.6	LTE Band 7-Ant2	Front	5mm	-49	-82.6	-203.5	160.4
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
WCDMA IV-Ant0	Front	5mm	-10	-87.9	-203.5	128.7	LTE Band 7-Ant2	Front	5mm	-49	-82.6	-203.5	135.7
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
WCDMA IV-Ant0	Front	5mm	-10	-87.9	-203.5	164.7	LTE Band 7-Ant2	Front	5mm	-49	-82.6	-203.5	178.1
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
WCDMA IV-Ant0	Front	5mm	-10	-87.9	-203.5	165.7	LTE Band 7-Ant2	Front	5mm	-49	-82.6	-203.5	175.6
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
WCDMA IV-Ant0	Front	5mm	-10	-87.9	-203.5	164.8	LTE Band 7-Ant2	Front	5mm	-49	-82.6	-203.5	176.5
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap (mm)	X	Y	Z	3D distance (mm)	Band	Position	Gap (mm)	X	Y	Z	3D distance (mm)
WCDMA V-Ant0	Front	5mm	-7	-89.4	-203.4	129.6	LTE Band 25-Ant2	Front	5mm	-55	-69.7	-203.5	124.7
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
WCDMA V-Ant0	Front	5mm	-7	-89.4	-203.4	151.6	LTE Band 25-Ant2	Front	5mm	-55	-69.7	-203.5	147.9
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
WCDMA V-Ant0	Front	5mm	-7	-89.4	-203.4	150.5	LTE Band 25-Ant2	Front	5mm	-55	-69.7	-203.5	144.5
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
WCDMA V-Ant0	Front	5mm	-7	-89.4	-203.4	173.9	LTE Band 25-Ant2	Front	5mm	-55	-69.7	-203.5	147.4
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
WCDMA V-Ant0	Front	5mm	-7	-89.4	-203.4	129.8	LTE Band 25-Ant2	Front	5mm	-55	-69.7	-203.5	127.3
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
WCDMA V-Ant0	Front	5mm	-7	-89.4	-203.4	165.1	LTE Band 25-Ant2	Front	5mm	-55	-69.7	-203.5	171.1



Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	166.4	WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	167.5
WCDMA V-Ant0		5mm	-7	-89.4	-203.4		LTE Band 25-Ant2		5mm	-55	-69.7	-203.5	
WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	165.3	WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	169.0
WCDMA V-Ant0		5mm	-7	-89.4	-203.4		LTE Band 25-Ant2		5mm	-55	-69.7	-203.5	
WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	150.9	WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	145.7
LTE Band 7-Ant0		5mm	-1	-90.3	-203.4		LTE Band 30-Ant2		5mm	-60	-68.5	-203.5	
WLAN2.4G -Ant4+6(Ant6)	Front	5mm	5	39.6	-203	130.0	WLAN2.4G -Ant4+6(Ant6)	Front	5mm	5	39.6	-203	126.1
LTE Band 7-Ant0		5mm	-1	-90.3	-203.4		LTE Band 30-Ant2		5mm	-60	-68.5	-203.5	
WLAN5G -Ant5+4(Ant5)	Front	5mm	15	60.6	-203	151.7	WLAN5G -Ant5+4(Ant5)	Front	5mm	15	60.6	-203	149.3
LTE Band 7-Ant0		5mm	-1	-90.3	-203.4		LTE Band 30-Ant2		5mm	-60	-68.5	-203.5	
WLAN6G -Ant5+4(Ant5)(Ant5)	Front	5mm	8.2	60.3	-204	176.5	WLAN6G -Ant5+4(Ant5)(Ant5)	Front	5mm	8.2	60.3	-204	145.7
LTE Band 7-Ant0		5mm	-1	-90.3	-203.4		LTE Band 30-Ant2		5mm	-60	-68.5	-203.5	
BT -Ant4	Front	5mm	-55	77.7	-203	130.0	BT -Ant4	Front	5mm	-55	77.7	-203	146.3
LTE Band 7-Ant0		5mm	-1	-90.3	-203.4		LTE Band 30-Ant2		5mm	-60	-68.5	-203.5	
BT -Ant6	Front	5mm	11	39.1	-203.4	164.0	BT -Ant6	Front	5mm	11	39.1	-203.4	128.9
LTE Band 7-Ant0		5mm	-1	-90.3	-203.4		LTE Band 30-Ant2		5mm	-60	-68.5	-203.5	
WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	165.9	WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	173.3
LTE Band 7-Ant0		5mm	-1	-90.3	-203.4		LTE Band 30-Ant2		5mm	-60	-68.5	-203.5	
WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	164.5	WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	169.3
LTE Band 7-Ant0		5mm	-1	-90.3	-203.4		LTE Band 30-Ant2		5mm	-60	-68.5	-203.5	
WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	130.0	WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	170.9
LTE Band 7-Ant0		5mm	-1	-90.3	-203.4		LTE Band 30-Ant2		5mm	-60	-68.5	-203.5	
WLAN2.4G -Ant4+6(Ant6)	Front	5mm	5	39.6	-203	152.2	WLAN2.4G -Ant4+6(Ant6)	Front	5mm	5	39.6	-203	130.2
LTE Band 12-Ant0		5mm	-10	-89.5	-203.4		LTE Band 66-Ant2		5mm	-55	-76	-203.4	
WLAN5G -Ant5+4(Ant5)	Front	5mm	15	60.6	-203	150.9	WLAN5G -Ant5+4(Ant5)	Front	5mm	15	60.6	-203	153.5
LTE Band 12-Ant0		5mm	-10	-89.5	-203.4		LTE Band 66-Ant2		5mm	-55	-76	-203.4	
WLAN6G -Ant5+4(Ant5)(Ant5)	Front	5mm	8.2	60.3	-204	173.2	WLAN6G -Ant5+4(Ant5)(Ant5)	Front	5mm	8.2	60.3	-204	150.2
LTE Band 12-Ant0		5mm	-10	-89.5	-203.4		LTE Band 66-Ant2		5mm	-55	-76	-203.4	
BT -Ant4	Front	5mm	-55	77.7	-203	130.3	BT -Ant4	Front	5mm	-55	77.7	-203	153.7
LTE Band 12-Ant0		5mm	-10	-89.5	-203.4		LTE Band 66-Ant2		5mm	-55	-76	-203.4	
BT -Ant6	Front	5mm	11	39.1	-203.4	166.2	BT -Ant6	Front	5mm	11	39.1	-203.4	132.7
LTE Band 12-Ant0		5mm	-10	-89.5	-203.4		LTE Band 66-Ant2		5mm	-55	-76	-203.4	
WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	167.3	WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	176.2
LTE Band 12-Ant0		5mm	-10	-89.5	-203.4		LTE Band 66-Ant2		5mm	-55	-76	-203.4	
WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	166.3	WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	172.9
LTE Band 12-Ant0		5mm	-10	-89.5	-203.4		LTE Band 66-Ant2		5mm	-55	-76	-203.4	
WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	151.3	WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	174.2
LTE Band 12-Ant0		5mm	-10	-89.5	-203.4		LTE Band 66-Ant2		5mm	-55	-76	-203.4	
LTE Band 13-Ant0	Front	5mm	-10	-89.9	-203.4	130.4	LTE Band 41-Ant2	Front	5mm	-40	-85	-203.4	132.5
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
LTE Band 13-Ant0	Front	5mm	-10	-89.9	-203.4	152.6	LTE Band 41-Ant2	Front	5mm	-40	-85	-203.4	155.6
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
LTE Band 13-Ant0	Front	5mm	-10	-89.9	-203.4	151.3	LTE Band 41-Ant2	Front	5mm	-40	-85	-203.4	153.1



FCC SAR Test Report

Report No. : FA340401-01

Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z				X	Y	Z		
WLAN6G -Ant5+4(Ant5)(Ant5)	Front	5mm	8.2	60.3	-204	173.5	WLAN6G -Ant5+4(Ant5)(Ant5)	Front	5mm	8.2	60.3	-204	163.4
LTE Band 13-Ant0		5mm	-10	-89.9	-203.4		LTE Band 41-Ant2		5mm	-40	-85	-203.4	
BT -Ant4	Front	5mm	-55	77.7	-203	130.7	BT -Ant4	Front	5mm	-55	77.7	-203	134.2
LTE Band 13-Ant0		5mm	-10	-89.9	-203.4		LTE Band 41-Ant2		5mm	-40	-85	-203.4	
BT -Ant6	Front	5mm	11	39.1	-203.4	166.6	BT -Ant6	Front	5mm	11	39.1	-203.4	175.3
LTE Band 13-Ant0		5mm	-10	-89.9	-203.4		LTE Band 41-Ant2		5mm	-40	-85	-203.4	
WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	167.7	WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	173.6
LTE Band 13-Ant0		5mm	-10	-89.9	-203.4		LTE Band 41-Ant2		5mm	-40	-85	-203.4	
WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	166.7	WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	174.1
LTE Band 13-Ant0		5mm	-10	-89.9	-203.4		LTE Band 41-Ant2		5mm	-40	-85	-203.4	
WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
LTE Band 14-Ant0	Front	5mm	-10	-89.7	-203.4	130.2	LTE Band 48-Ant2	Front	5mm	-40	-86.2	-203.4	133.6
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
LTE Band 14-Ant0	Front	5mm	-10	-89.7	-203.4	152.4	LTE Band 48-Ant2	Front	5mm	-40	-86.2	-203.4	156.8
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
LTE Band 14-Ant0	Front	5mm	-10	-89.7	-203.4	151.1	LTE Band 48-Ant2	Front	5mm	-40	-86.2	-203.4	154.2
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
LTE Band 14-Ant0	Front	5mm	-10	-89.7	-203.4	173.3	LTE Band 48-Ant2	Front	5mm	-40	-86.2	-203.4	164.6
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
LTE Band 14-Ant0	Front	5mm	-10	-89.7	-203.4	130.5	LTE Band 48-Ant2	Front	5mm	-40	-86.2	-203.4	135.3
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
LTE Band 14-Ant0	Front	5mm	-10	-89.7	-203.4	166.4	LTE Band 48-Ant2	Front	5mm	-40	-86.2	-203.4	176.4
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
LTE Band 14-Ant0	Front	5mm	-10	-89.7	-203.4	167.5	LTE Band 48-Ant2	Front	5mm	-40	-86.2	-203.4	174.7
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
LTE Band 14-Ant0	Front	5mm	-10	-89.7	-203.4	166.5	LTE Band 48-Ant2	Front	5mm	-40	-86.2	-203.4	175.1
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
LTE Band 25-Ant0	Front	5mm	5	-87.2	-203.5	126.8	n2-Ant2	Front	5mm	-51	-71.5	-203.5	124.4
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
LTE Band 25-Ant0	Front	5mm	5	-87.2	-203.5	148.1	n2-Ant2	Front	5mm	-51	-71.5	-203.5	147.7
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
LTE Band 25-Ant0	Front	5mm	5	-87.2	-203.5	147.5	n2-Ant2	Front	5mm	-51	-71.5	-203.5	144.5
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
LTE Band 25-Ant0	Front	5mm	5	-87.2	-203.5	175.5	n2-Ant2	Front	5mm	-51	-71.5	-203.5	149.3
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
LTE Band 25-Ant0	Front	5mm	5	-87.2	-203.5	126.4	n2-Ant2	Front	5mm	-51	-71.5	-203.5	126.8
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
LTE Band 25-Ant0	Front	5mm	5	-87.2	-203.5	159.2	n2-Ant2	Front	5mm	-51	-71.5	-203.5	170.2
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
LTE Band 25-Ant0	Front	5mm	5	-87.2	-203.5	161.6	n2-Ant2	Front	5mm	-51	-71.5	-203.5	167.0
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
LTE Band 25-Ant0	Front	5mm	5	-87.2	-203.5	160.0	n2-Ant2	Front	5mm	-51	-71.5	-203.5	168.2
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)

Band	Position	SAR peak location (mm)				3D distance (mm)	Band	Position	SAR peak location (mm)				3D distance (mm)
		Gap (mm)	X	Y	Z				Gap (mm)	X	Y	Z	
LTE Band 26-Ant0	Front	5mm	-7	-87.4	-203.4	127.6	n7-Ant2	Front	5mm	-37	-91.5	-203.4	137.7
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
LTE Band 26-Ant0	Front	5mm	-7	-87.4	-203.4	149.6	n7-Ant2	Front	5mm	-37	-91.5	-203.4	160.7
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
LTE Band 26-Ant0	Front	5mm	-7	-87.4	-203.4	148.5	n7-Ant2	Front	5mm	-37	-91.5	-203.4	158.4
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
LTE Band 26-Ant0	Front	5mm	-7	-87.4	-203.4	171.9	n7-Ant2	Front	5mm	-37	-91.5	-203.4	170.2
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
LTE Band 26-Ant0	Front	5mm	-7	-87.4	-203.4	127.8	n7-Ant2	Front	5mm	-37	-91.5	-203.4	139.1
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
LTE Band 26-Ant0	Front	5mm	-7	-87.4	-203.4	163.2	n7-Ant2	Front	5mm	-37	-91.5	-203.4	179.5
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
LTE Band 26-Ant0	Front	5mm	-7	-87.4	-203.4	164.5	n7-Ant2	Front	5mm	-37	-91.5	-203.4	178.3
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
LTE Band 26-Ant0	Front	5mm	-7	-87.4	-203.4	163.4	n7-Ant2	Front	5mm	-37	-91.5	-203.4	178.5
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
LTE Band 30-Ant0	Front	5mm	-1	-90.3	-203.4	130.0	n25-Ant2	Front	5mm	-50	-72.7	-203.4	125.0
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
LTE Band 30-Ant0	Front	5mm	-1	-90.3	-203.4	151.7	n25-Ant2	Front	5mm	-50	-72.7	-203.4	148.3
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
LTE Band 30-Ant0	Front	5mm	-1	-90.3	-203.4	150.9	n25-Ant2	Front	5mm	-50	-72.7	-203.4	145.2
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
LTE Band 30-Ant0	Front	5mm	-1	-90.3	-203.4	176.5	n25-Ant2	Front	5mm	-50	-72.7	-203.4	150.5
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
LTE Band 30-Ant0	Front	5mm	-1	-90.3	-203.4	130.0	n25-Ant2	Front	5mm	-50	-72.7	-203.4	127.4
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
LTE Band 30-Ant0	Front	5mm	-1	-90.3	-203.4	164.0	n25-Ant2	Front	5mm	-50	-72.7	-203.4	170.5
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
LTE Band 30-Ant0	Front	5mm	-1	-90.3	-203.4	165.9	n25-Ant2	Front	5mm	-50	-72.7	-203.4	167.5
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
LTE Band 30-Ant0	Front	5mm	-1	-90.3	-203.4	164.5	n25-Ant2	Front	5mm	-50	-72.7	-203.4	168.6
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
LTE Band 66-Ant0	Front	5mm	5	-88.7	-203.5	128.3	n30-Ant2	Front	5mm	-60	-71.5	-203.5	128.7
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
LTE Band 66-Ant0	Front	5mm	5	-88.7	-203.5	149.6	n30-Ant2	Front	5mm	-60	-71.5	-203.5	151.9
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
LTE Band 66-Ant0	Front	5mm	5	-88.7	-203.5	149.0	n30-Ant2	Front	5mm	-60	-71.5	-203.5	148.4
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
LTE Band 66-Ant0	Front	5mm	5	-88.7	-203.5	176.9	n30-Ant2	Front	5mm	-60	-71.5	-203.5	149.3
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
LTE Band 66-Ant0	Front	5mm	5	-88.7	-203.5	127.9	n30-Ant2	Front	5mm	-60	-71.5	-203.5	131.4
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
LTE Band 66-Ant0	Front	5mm	5	-88.7	-203.5	160.7	n30-Ant2	Front	5mm	-60	-71.5	-203.5	175.6

Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	163.1	WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	171.8
LTE Band 66-Ant0		5mm	5	-88.7	-203.5		n30-Ant2		5mm	-60	-71.5	-203.5	
WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	161.4	WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	173.4
LTE Band 66-Ant0		5mm	5	-88.7	-203.5		n30-Ant2		5mm	-60	-71.5	-203.5	
WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	151.6	WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	150.2
LTE Band 71-Ant0		5mm	-10	-90.2	-203.4		n66-Ant2		5mm	-55	-76	-203.4	
WLAN2.4G -Ant4+6(Ant6)	Front	5mm	5	39.6	-203	130.7	WLAN2.4G -Ant4+6(Ant6)	Front	5mm	5	39.6	-203	130.2
LTE Band 71-Ant0		5mm	-10	-90.2	-203.4		n66-Ant2		5mm	-55	-76	-203.4	
WLAN5G -Ant5+4(Ant5)	Front	5mm	15	60.6	-203	152.9	WLAN5G -Ant5+4(Ant5)	Front	5mm	15	60.6	-203	153.5
LTE Band 71-Ant0		5mm	-10	-90.2	-203.4		n66-Ant2		5mm	-55	-76	-203.4	
WLAN6G -Ant5+4(Ant5)(Ant5)	Front	5mm	8.2	60.3	-204	151.6	WLAN6G -Ant5+4(Ant5)(Ant5)	Front	5mm	8.2	60.3	-204	150.2
LTE Band 71-Ant0		5mm	-10	-90.2	-203.4		n66-Ant2		5mm	-55	-76	-203.4	
BT -Ant4	Front	5mm	-55	77.7	-203	173.8	BT -Ant4	Front	5mm	-55	77.7	-203	153.7
LTE Band 71-Ant0		5mm	-10	-90.2	-203.4		n66-Ant2		5mm	-55	-76	-203.4	
BT -Ant6	Front	5mm	11	39.1	-203.4	131.0	BT -Ant6	Front	5mm	11	39.1	-203.4	132.7
LTE Band 71-Ant0		5mm	-10	-90.2	-203.4		n66-Ant2		5mm	-55	-76	-203.4	
WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	166.9	WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	176.2
LTE Band 71-Ant0		5mm	-10	-90.2	-203.4		n66-Ant2		5mm	-55	-76	-203.4	
WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	167.9	WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	172.9
LTE Band 71-Ant0		5mm	-10	-90.2	-203.4		n66-Ant2		5mm	-55	-76	-203.4	
WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	167.0	WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	174.2
LTE Band 71-Ant0		5mm	-10	-90.2	-203.4		n66-Ant2		5mm	-55	-76	-203.4	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
LTE Band 41-Ant0	Front	5mm	-35	-77.3	-203	123.6	n70-Ant2	Front	5mm	-50	-78.3	-203.4	130.1
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
LTE Band 41-Ant0	Front	5mm	-35	-77.3	-203	146.7	n70-Ant2	Front	5mm	-50	-78.3	-203.4	153.4
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
LTE Band 41-Ant0	Front	5mm	-35	-77.3	-203	144.2	n70-Ant2	Front	5mm	-50	-78.3	-203.4	150.3
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
LTE Band 41-Ant0	Front	5mm	-35	-77.3	-203	156.3	n70-Ant2	Front	5mm	-50	-78.3	-203.4	156.1
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
LTE Band 41-Ant0	Front	5mm	-35	-77.3	-203	125.2	n70-Ant2	Front	5mm	-50	-78.3	-203.4	132.3
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
LTE Band 41-Ant0	Front	5mm	-35	-77.3	-203	166.2	n70-Ant2	Front	5mm	-50	-78.3	-203.4	175.1
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
LTE Band 41-Ant0	Front	5mm	-35	-77.3	-203	164.5	n70-Ant2	Front	5mm	-50	-78.3	-203.4	172.3
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
LTE Band 41-Ant0	Front	5mm	-35	-77.3	-203	164.9	n70-Ant2	Front	5mm	-50	-78.3	-203.4	173.3
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
n2-Ant0	Front	5mm	5	-99.5	-203.4	139.1	n41-Ant2	Front	5mm	-37	-91	-203.4	137.2
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
n2-Ant0	Front	5mm	5	-99.5	-203.4	160.4	n41-Ant2	Front	5mm	-37	-91	-203.4	160.3
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
n2-Ant0	Front	5mm	5	-99.5	-203.4	159.8	n41-Ant2	Front	5mm	-37	-91	-203.4	157.9



Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
n2-Ant0	Front	5mm	5	-99.5	-203.4	187.1	n41-Ant2	Front	5mm	-37	-91	-203.4	169.7
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
n2-Ant0	Front	5mm	5	-99.5	-203.4	138.7	n41-Ant2	Front	5mm	-37	-91	-203.4	138.7
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
n2-Ant0	Front	5mm	5	-99.5	-203.4	171.1	n41-Ant2	Front	5mm	-37	-91	-203.4	179.0
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
n2-Ant0	Front	5mm	5	-99.5	-203.4	173.7	n41-Ant2	Front	5mm	-37	-91	-203.4	177.8
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
n2-Ant0	Front	5mm	5	-99.5	-203.4	171.9	n41-Ant2	Front	5mm	-37	-91	-203.4	178.0
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
n7-Ant0	Front	5mm	11	-87.7	-203.3	127.4	n48-Ant2	Front	5mm	-40	-85.9	-203.5	133.3
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
n7-Ant0	Front	5mm	11	-87.7	-203.3	148.4	n48-Ant2	Front	5mm	-40	-85.9	-203.5	156.5
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
n7-Ant0	Front	5mm	11	-87.7	-203.3	148.0	n48-Ant2	Front	5mm	-40	-85.9	-203.5	153.9
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
n7-Ant0	Front	5mm	11	-87.7	-203.3	178.1	n48-Ant2	Front	5mm	-40	-85.9	-203.5	164.3
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
n7-Ant0	Front	5mm	11	-87.7	-203.3	126.8	n48-Ant2	Front	5mm	-40	-85.9	-203.5	135.0
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
n7-Ant0	Front	5mm	11	-87.7	-203.3	158.1	n48-Ant2	Front	5mm	-40	-85.9	-203.5	176.1
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
n7-Ant0	Front	5mm	11	-87.7	-203.3	161.1	n48-Ant2	Front	5mm	-40	-85.9	-203.5	174.4
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
n7-Ant0	Front	5mm	11	-87.7	-203.3	159.1	n48-Ant2	Front	5mm	-40	-85.9	-203.5	174.9
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
n12-Ant0	Front	5mm	2	-89.9	-203.4	129.5	n77-Ant2	Front	5mm	-40	-86.2	-203.4	133.6
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
n12-Ant0	Front	5mm	2	-89.9	-203.4	151.1	n77-Ant2	Front	5mm	-40	-86.2	-203.4	156.8
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203		WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
n12-Ant0	Front	5mm	2	-89.9	-203.4	150.3	n77-Ant2	Front	5mm	-40	-86.2	-203.4	154.2
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204		WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
n12-Ant0	Front	5mm	2	-89.9	-203.4	177.0	n77-Ant2	Front	5mm	-40	-86.2	-203.4	164.6
BT -Ant4		5mm	-55	77.7	-203		BT -Ant4		5mm	-55	77.7	-203	
n12-Ant0	Front	5mm	2	-89.9	-203.4	129.3	n77-Ant2	Front	5mm	-40	-86.2	-203.4	135.3
BT -Ant6		5mm	11	39.1	-203.4		BT -Ant6		5mm	11	39.1	-203.4	
n12-Ant0	Front	5mm	2	-89.9	-203.4	162.7	n77-Ant2	Front	5mm	-40	-86.2	-203.4	176.4
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
n12-Ant0	Front	5mm	2	-89.9	-203.4	164.8	n77-Ant2	Front	5mm	-40	-86.2	-203.4	174.7
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203		WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
n12-Ant0	Front	5mm	2	-89.9	-203.4	163.3	n77-Ant2	Front	5mm	-40	-86.2	-203.4	175.1
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203		WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	



Band	Position	Gap	SAR peak location (mm)			3D distance (mm)
		(mm)	X	Y	Z	
n14-Ant0	Front	5mm	4	-91.4	-203.3	131.0
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
n14-Ant0	Front	5mm	4	-91.4	-203.3	152.4
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
n14-Ant0	Front	5mm	4	-91.4	-203.3	151.8
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
n14-Ant0	Front	5mm	4	-91.4	-203.3	179.1
BT -Ant4		5mm	-55	77.7	-203	
n14-Ant0	Front	5mm	4	-91.4	-203.3	130.7
BT -Ant6		5mm	11	39.1	-203.4	
n14-Ant0	Front	5mm	4	-91.4	-203.3	163.5
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
n14-Ant0	Front	5mm	4	-91.4	-203.3	165.9
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
n14-Ant0	Front	5mm	4	-91.4	-203.3	164.3
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap	SAR peak location (mm)			3D distance (mm)
		(mm)	X	Y	Z	
n25-Ant0	Front	5mm	4	-89.2	-203.4	128.8
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
n25-Ant0	Front	5mm	4	-89.2	-203.4	150.2
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
n25-Ant0	Front	5mm	4	-89.2	-203.4	149.6
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
n25-Ant0	Front	5mm	4	-89.2	-203.4	177.0
BT -Ant4		5mm	-55	77.7	-203	
n25-Ant0	Front	5mm	4	-89.2	-203.4	128.5
BT -Ant6		5mm	11	39.1	-203.4	
n25-Ant0	Front	5mm	4	-89.2	-203.4	161.4
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
n25-Ant0	Front	5mm	4	-89.2	-203.4	163.8
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
n25-Ant0	Front	5mm	4	-89.2	-203.4	162.1
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap	SAR peak location (mm)			3D distance (mm)
		(mm)	X	Y	Z	
n26-Ant0	Front	5mm	-7	-88.1	-203.4	128.3
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
n26-Ant0	Front	5mm	-7	-88.1	-203.4	150.3
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
n26-Ant0	Front	5mm	-7	-88.1	-203.4	149.2
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
n26-Ant0	Front	5mm	-7	-88.1	-203.4	172.6
BT -Ant4		5mm	-55	77.7	-203	
n26-Ant0	Front	5mm	-7	-88.1	-203.4	128.5
BT -Ant6		5mm	11	39.1	-203.4	
n26-Ant0	Front	5mm	-7	-88.1	-203.4	163.9
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
n26-Ant0	Front	5mm	-7	-88.1	-203.4	165.1
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
n26-Ant0	Front	5mm	-7	-88.1	-203.4	164.0
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap	SAR peak location (mm)			3D distance



		(mm)	X	Y	Z	(mm)
n30-Ant0	Front	5mm	-5	-89.3	-203.5	129.3
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
n30-Ant0	Front	5mm	-5	-89.3	-203.5	151.2
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
n30-Ant0	Front	5mm	-5	-89.3	-203.5	150.2
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
n30-Ant0	Front	5mm	-5	-89.3	-203.5	174.3
BT -Ant4		5mm	-55	77.7	-203	
n30-Ant0	Front	5mm	-5	-89.3	-203.5	129.4
BT -Ant6		5mm	11	39.1	-203.4	
n30-Ant0	Front	5mm	-5	-89.3	-203.5	164.3
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
n30-Ant0	Front	5mm	-5	-89.3	-203.5	165.8
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
n30-Ant0	Front	5mm	-5	-89.3	-203.5	164.6
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
n66-Ant0	Front	5mm	-40	-88.9	-203.4	136.2
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
n66-Ant0	Front	5mm	-40	-88.9	-203.4	159.3
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
n66-Ant0	Front	5mm	-40	-88.9	-203.4	156.8
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
n66-Ant0	Front	5mm	-40	-88.9	-203.4	167.3
BT -Ant4		5mm	-55	77.7	-203	
n66-Ant0	Front	5mm	-40	-88.9	-203.4	137.8
BT -Ant6		5mm	11	39.1	-203.4	
n66-Ant0	Front	5mm	-40	-88.9	-203.4	178.7
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
n66-Ant0	Front	5mm	-40	-88.9	-203.4	177.2
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
n66-Ant0	Front	5mm	-40	-88.9	-203.4	177.5
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
n70-Ant0	Front	5mm	-40	-87.6	-203.5	134.9
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
n70-Ant0	Front	5mm	-40	-87.6	-203.5	158.1
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
n70-Ant0	Front	5mm	-40	-87.6	-203.5	155.6
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
n70-Ant0	Front	5mm	-40	-87.6	-203.5	166.0
BT -Ant4		5mm	-55	77.7	-203	
n70-Ant0	Front	5mm	-40	-87.6	-203.5	136.6
BT -Ant6		5mm	11	39.1	-203.4	
n70-Ant0	Front	5mm	-40	-87.6	-203.5	177.6
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
n70-Ant0	Front	5mm	-40	-87.6	-203.5	176.0
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
n70-Ant0	Front	5mm	-40	-87.6	-203.5	176.4
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
n71-Ant0	Front	5mm	-5	-88.5	-203.4	128.5



WLAN2.4G -Ant4+6(Ant6)	Front	5mm	5	39.6	-203	150.4
n71-Ant0		5mm	-5	-88.5	-203.4	
WLAN5G -Ant5+4(Ant5)	Front	5mm	15	60.6	-203	149.4
n71-Ant0		5mm	-5	-88.5	-203.4	
WLAN6G -Ant5+4(Ant5)(Ant5)	Front	5mm	8.2	60.3	-204	173.6
n71-Ant0		5mm	-5	-88.5	-203.4	
BT -Ant4	Front	5mm	-55	77.7	-203	128.6
n71-Ant0		5mm	-5	-88.5	-203.4	
BT -Ant6	Front	5mm	11	39.1	-203.4	163.6
n71-Ant0		5mm	-5	-88.5	-203.4	
WLAN2.4G -Ant4+6(Ant4)	Front	5mm	49.8	65.6	-203	165.0
n71-Ant0		5mm	-5	-88.5	-203.4	
WLAN5G Ant5+4(Ant4)	Front	5mm	35	71.6	-203	163.8
n71-Ant0		5mm	-5	-88.5	-203.4	
WLAN6G Ant5+4(Ant4)	Front	5mm	42.5	68.3	-203	
Band	Position	Gap	SAR peak location (mm)			3D distance (mm)
		(mm)	X	Y	Z	
n41-Ant0	Front	5mm	11	-89.5	-203.4	129.2
WLAN2.4G -Ant4+6(Ant6)		5mm	5	39.6	-203	
n41-Ant0	Front	5mm	11	-89.5	-203.4	150.2
WLAN5G -Ant5+4(Ant5)		5mm	15	60.6	-203	
n41-Ant0	Front	5mm	11	-89.5	-203.4	149.8
WLAN6G -Ant5+4(Ant5)(Ant5)		5mm	8.2	60.3	-204	
n41-Ant0	Front	5mm	11	-89.5	-203.4	179.8
BT -Ant4		5mm	-55	77.7	-203	
n41-Ant0	Front	5mm	11	-89.5	-203.4	128.6
BT -Ant6		5mm	11	39.1	-203.4	
n41-Ant0	Front	5mm	11	-89.5	-203.4	159.9
WLAN2.4G -Ant4+6(Ant4)		5mm	49.8	65.6	-203	
n41-Ant0	Front	5mm	11	-89.5	-203.4	162.9
WLAN5G Ant5+4(Ant4)		5mm	35	71.6	-203	
n41-Ant0	Front	5mm	11	-89.5	-203.4	160.9
WLAN6G Ant5+4(Ant4)		5mm	42.5	68.3	-203	

Note: According to the above tables the minimum distance is as follows:

Simultaneous	Position	minimum 3D distance (mm)
WWAN+WLAN+BT	Front 5mm	123.6



Back

Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
GSM850-Ant0	Back	5mm	-40	-83.1	-203.5	128.7	GSM1900-Ant2	Back	5mm	2	-74.6	-204	132.2
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
GSM850-Ant0	Back	5mm	-40	-83.1	-203.5	142.1	GSM1900-Ant2	Back	5mm	2	-74.6	-204	144.5
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
GSM850-Ant0	Back	5mm	-40	-83.1	-203.5	166.2	GSM1900-Ant2	Back	5mm	2	-74.6	-204	163.7
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
GSM850-Ant0	Back	5mm	-40	-83.1	-203.5	169.1	GSM1900-Ant2	Back	5mm	2	-74.6	-204	157.1
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
GSM850-Ant0	Back	5mm	-40	-83.1	-203.5	127.2	GSM1900-Ant2	Back	5mm	2	-74.6	-204	130.9
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
GSM850-Ant0	Back	5mm	-40	-83.1	-203.5	167.5	GSM1900-Ant2	Back	5mm	2	-74.6	-204	154.8
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
GSM850-Ant0	Back	5mm	-40	-83.1	-203.5	165.0	GSM1900-Ant2	Back	5mm	2	-74.6	-204	154.3
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
GSM850-Ant0	Back	5mm	-40	-83.1	-203.5	160.2	GSM1900-Ant2	Back	5mm	2	-74.6	-204	150.7
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
GSM1900-Ant0	Back	5mm	-40	-86.6	-203.5	132.2	WCDMA II-Ant2	Back	5mm	2	-73.5	-204	131.2
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
GSM1900-Ant0	Back	5mm	-40	-86.6	-203.5	145.6	WCDMA II-Ant2	Back	5mm	2	-73.5	-204	143.5
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
GSM1900-Ant0	Back	5mm	-40	-86.6	-203.5	169.7	WCDMA II-Ant2	Back	5mm	2	-73.5	-204	162.7
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
GSM1900-Ant0	Back	5mm	-40	-86.6	-203.5	172.5	WCDMA II-Ant2	Back	5mm	2	-73.5	-204	156.0
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
GSM1900-Ant0	Back	5mm	-40	-86.6	-203.5	130.7	WCDMA II-Ant2	Back	5mm	2	-73.5	-204	129.9
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
GSM1900-Ant0	Back	5mm	-40	-86.6	-203.5	170.9	WCDMA II-Ant2	Back	5mm	2	-73.5	-204	153.7
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
GSM1900-Ant0	Back	5mm	-40	-86.6	-203.5	168.4	WCDMA II-Ant2	Back	5mm	2	-73.5	-204	153.2
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
GSM1900-Ant0	Back	5mm	-40	-86.6	-203.5	163.6	WCDMA II-Ant2	Back	5mm	2	-73.5	-204	149.6
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
WCDMA II-Ant0	Back	5mm	-40	-88.5	-204	134.0	WCDMA IV-Ant2	Back	5mm	2	-75	-204	132.6
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
WCDMA II-Ant0	Back	5mm	-40	-88.5	-204	147.5	WCDMA IV-Ant2	Back	5mm	2	-75	-204	144.9
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
WCDMA II-Ant0	Back	5mm	-40	-88.5	-204	171.6	WCDMA IV-Ant2	Back	5mm	2	-75	-204	164.1
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
WCDMA II-Ant0	Back	5mm	-40	-88.5	-204	174.4	WCDMA IV-Ant2	Back	5mm	2	-75	-204	157.5
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
WCDMA II-Ant0	Back	5mm	-40	-88.5	-204	132.6	WCDMA IV-Ant2	Back	5mm	2	-75	-204	131.2
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
WCDMA II-Ant0	Back	5mm	-40	-88.5	-204	172.8	WCDMA IV-Ant2	Back	5mm	2	-75	-204	155.2
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	



Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
WCDMA II-Ant0	Back	5mm	-40	-88.5	-204	170.3	WCDMA IV-Ant2	Back	5mm	2	-75	-204	154.7
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
WCDMA II-Ant0	Back	5mm	-40	-88.5	-204	165.5	WCDMA IV-Ant2	Back	5mm	2	-75	-204	151.1
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
WCDMA IV-Ant0	Back	5mm	-55	-84.4	-203.5	129.1	LTE Band 7-Ant2	Back	5mm	-1	-80.2	-203.5	136.1
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
WCDMA IV-Ant0	Back	5mm	-55	-84.4	-203.5	142.6	LTE Band 7-Ant2	Back	5mm	-1	-80.2	-203.5	148.6
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
WCDMA IV-Ant0	Back	5mm	-55	-84.4	-203.5	168.0	LTE Band 7-Ant2	Back	5mm	-1	-80.2	-203.5	168.4
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
WCDMA IV-Ant0	Back	5mm	-55	-84.4	-203.5	174.0	LTE Band 7-Ant2	Back	5mm	-1	-80.2	-203.5	162.5
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
WCDMA IV-Ant0	Back	5mm	-55	-84.4	-203.5	127.6	LTE Band 7-Ant2	Back	5mm	-1	-80.2	-203.5	134.7
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
WCDMA IV-Ant0	Back	5mm	-55	-84.4	-203.5	172.7	LTE Band 7-Ant2	Back	5mm	-1	-80.2	-203.5	160.3
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
WCDMA IV-Ant0	Back	5mm	-55	-84.4	-203.5	169.5	LTE Band 7-Ant2	Back	5mm	-1	-80.2	-203.5	159.7
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
WCDMA IV-Ant0	Back	5mm	-55	-84.4	-203.5	164.4	LTE Band 7-Ant2	Back	5mm	-1	-80.2	-203.5	155.9
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
WCDMA V-Ant0	Back	5mm	-38.5	-87	-204	132.7	LTE Band 25-Ant2	Back	5mm	5	-76.4	-203.5	135.1
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
WCDMA V-Ant0	Back	5mm	-38.5	-87	-204	146.1	LTE Band 25-Ant2	Back	5mm	5	-76.4	-203.5	147.4
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
WCDMA V-Ant0	Back	5mm	-38.5	-87	-204	170.1	LTE Band 25-Ant2	Back	5mm	5	-76.4	-203.5	166.3
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
WCDMA V-Ant0	Back	5mm	-38.5	-87	-204	172.6	LTE Band 25-Ant2	Back	5mm	5	-76.4	-203.5	159.0
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
WCDMA V-Ant0	Back	5mm	-38.5	-87	-204	131.2	LTE Band 25-Ant2	Back	5mm	5	-76.4	-203.5	133.8
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
WCDMA V-Ant0	Back	5mm	-38.5	-87	-204	171.0	LTE Band 25-Ant2	Back	5mm	5	-76.4	-203.5	156.7
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
WCDMA V-Ant0	Back	5mm	-38.5	-87	-204	168.5	LTE Band 25-Ant2	Back	5mm	5	-76.4	-203.5	156.4
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
WCDMA V-Ant0	Back	5mm	-38.5	-87	-204	163.8	LTE Band 25-Ant2	Back	5mm	5	-76.4	-203.5	152.8
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
LTE Band 7-Ant0	Back	5mm	-50.2	-84	-204	128.8	LTE Band 30-Ant2	Back	5mm	5	-77.1	-203.4	135.8
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
LTE Band 7-Ant0	Back	5mm	-50.2	-84	-204	142.3	LTE Band 30-Ant2	Back	5mm	5	-77.1	-203.4	148.0
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
LTE Band 7-Ant0	Back	5mm	-50.2	-84	-204	167.3	LTE Band 30-Ant2	Back	5mm	5	-77.1	-203.4	167.0
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
LTE Band 7-Ant0	Back	5mm	-50.2	-84	-204	172.3	LTE Band 30-Ant2	Back	5mm	5	-77.1	-203.4	159.7
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
LTE Band 7-Ant0	Back	5mm	-50.2	-84	-204	127.3	LTE Band 30-Ant2	Back	5mm	5	-77.1	-203.4	134.4



Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z				X	Y	Z		
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
LTE Band 7-Ant0	Back	5mm	-50.2	-84	-204	171.0	LTE Band 30-Ant2	Back	5mm	5	-77.1	-203.4	157.4
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
LTE Band 7-Ant0	Back	5mm	-50.2	-84	-204	168.0	LTE Band 30-Ant2	Back	5mm	5	-77.1	-203.4	157.1
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
LTE Band 7-Ant0	Back	5mm	-50.2	-84	-204	163.0	LTE Band 30-Ant2	Back	5mm	5	-77.1	-203.4	153.5
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
LTE Band 12-Ant0	Back	5mm	-42.5	-82.3	-203.5	127.6	LTE Band 66-Ant2	Back	5mm	5	-75.4	-203.5	134.3
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
LTE Band 12-Ant0	Back	5mm	-42.5	-82.3	-203.5	141.1	LTE Band 66-Ant2	Back	5mm	5	-75.4	-203.5	146.5
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
LTE Band 12-Ant0	Back	5mm	-42.5	-82.3	-203.5	165.4	LTE Band 66-Ant2	Back	5mm	5	-75.4	-203.5	165.3
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
LTE Band 12-Ant0	Back	5mm	-42.5	-82.3	-203.5	168.8	LTE Band 66-Ant2	Back	5mm	5	-75.4	-203.5	158.0
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
LTE Band 12-Ant0	Back	5mm	-42.5	-82.3	-203.5	126.1	LTE Band 66-Ant2	Back	5mm	5	-75.4	-203.5	132.9
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
LTE Band 12-Ant0	Back	5mm	-42.5	-82.3	-203.5	167.3	LTE Band 66-Ant2	Back	5mm	5	-75.4	-203.5	155.7
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
LTE Band 12-Ant0	Back	5mm	-42.5	-82.3	-203.5	164.6	LTE Band 66-Ant2	Back	5mm	5	-75.4	-203.5	155.4
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
LTE Band 12-Ant0	Back	5mm	-42.5	-82.3	-203.5	159.8	LTE Band 66-Ant2	Back	5mm	5	-75.4	-203.5	151.8
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
LTE Band 13-Ant0	Back	5mm	-40	-81.2	-203.5	126.8	LTE Band 41-Ant2	Back	5mm	-1	-82.3	-203.5	138.0
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
LTE Band 13-Ant0	Back	5mm	-40	-81.2	-203.5	140.2	LTE Band 41-Ant2	Back	5mm	-1	-82.3	-203.5	150.5
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
LTE Band 13-Ant0	Back	5mm	-40	-81.2	-203.5	164.3	LTE Band 41-Ant2	Back	5mm	-1	-82.3	-203.5	170.4
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
LTE Band 13-Ant0	Back	5mm	-40	-81.2	-203.5	167.2	LTE Band 41-Ant2	Back	5mm	-1	-82.3	-203.5	164.6
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
LTE Band 13-Ant0	Back	5mm	-40	-81.2	-203.5	125.3	LTE Band 41-Ant2	Back	5mm	-1	-82.3	-203.5	136.6
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
LTE Band 13-Ant0	Back	5mm	-40	-81.2	-203.5	165.6	LTE Band 41-Ant2	Back	5mm	-1	-82.3	-203.5	162.4
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
LTE Band 13-Ant0	Back	5mm	-40	-81.2	-203.5	163.1	LTE Band 41-Ant2	Back	5mm	-1	-82.3	-203.5	161.8
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
LTE Band 13-Ant0	Back	5mm	-40	-81.2	-203.5	158.3	LTE Band 41-Ant2	Back	5mm	-1	-82.3	-203.5	158.0
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
LTE Band 14-Ant0	Back	5mm	-41	-83.3	-203.5	128.8	LTE Band 48-Ant2	Back	5mm	-5	-81.4	-203.5	135.7
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
LTE Band 14-Ant0	Back	5mm	-41	-83.3	-203.5	142.2	LTE Band 48-Ant2	Back	5mm	-5	-81.4	-203.5	148.3
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
LTE Band 14-Ant0	Back	5mm	-41	-83.3	-203.5	166.4	LTE Band 48-Ant2	Back	5mm	-5	-81.4	-203.5	168.6
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	



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LTE Band 14-Ant0	Back	5mm	-41	-83.3	-203.5	169.5	LTE Band 48-Ant2	Back	5mm	-5	-81.4	-203.5	163.7
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
LTE Band 14-Ant0	Back	5mm	-41	-83.3	-203.5	127.3	LTE Band 48-Ant2	Back	5mm	-5	-81.4	-203.5	134.3
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
LTE Band 14-Ant0	Back	5mm	-41	-83.3	-203.5	167.9	LTE Band 48-Ant2	Back	5mm	-5	-81.4	-203.5	161.5
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
LTE Band 14-Ant0	Back	5mm	-41	-83.3	-203.5	165.3	LTE Band 48-Ant2	Back	5mm	-5	-81.4	-203.5	160.7
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
LTE Band 14-Ant0	Back	5mm	-41	-83.3	-203.5	160.5	LTE Band 48-Ant2	Back	5mm	-5	-81.4	-203.5	156.8
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
LTE Band 25-Ant0	Back	5mm	-55	-76.9	-203.5	121.6	FR1 n2-Ant2	Back	5mm	2	-87	-204	143.5
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
LTE Band 25-Ant0	Back	5mm	-55	-76.9	-203.5	135.1	FR1 n2-Ant2	Back	5mm	2	-87	-204	156.0
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
LTE Band 25-Ant0	Back	5mm	-55	-76.9	-203.5	160.5	FR1 n2-Ant2	Back	5mm	2	-87	-204	175.7
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
LTE Band 25-Ant0	Back	5mm	-55	-76.9	-203.5	166.9	FR1 n2-Ant2	Back	5mm	2	-87	-204	169.4
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
LTE Band 25-Ant0	Back	5mm	-55	-76.9	-203.5	120.1	FR1 n2-Ant2	Back	5mm	2	-87	-204	142.1
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
LTE Band 25-Ant0	Back	5mm	-55	-76.9	-203.5	165.6	FR1 n2-Ant2	Back	5mm	2	-87	-204	167.2
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
LTE Band 25-Ant0	Back	5mm	-55	-76.9	-203.5	162.3	FR1 n2-Ant2	Back	5mm	2	-87	-204	166.7
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
LTE Band 25-Ant0	Back	5mm	-55	-76.9	-203.5	157.2	FR1 n2-Ant2	Back	5mm	2	-87	-204	163.0
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
LTE Band 26-Ant0	Back	5mm	-40	-81.5	-203.5	127.1	FR1 n7-Ant2	Back	5mm	-1	-87.1	-203.2	142.4
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
LTE Band 26-Ant0	Back	5mm	-40	-81.5	-203.5	140.5	FR1 n7-Ant2	Back	5mm	-1	-87.1	-203.2	155.0
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
LTE Band 26-Ant0	Back	5mm	-40	-81.5	-203.5	164.6	FR1 n7-Ant2	Back	5mm	-1	-87.1	-203.2	175.1
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
LTE Band 26-Ant0	Back	5mm	-40	-81.5	-203.5	167.5	FR1 n7-Ant2	Back	5mm	-1	-87.1	-203.2	169.4
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
LTE Band 26-Ant0	Back	5mm	-40	-81.5	-203.5	125.6	FR1 n7-Ant2	Back	5mm	-1	-87.1	-203.2	141.0
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
LTE Band 26-Ant0	Back	5mm	-40	-81.5	-203.5	165.9	FR1 n7-Ant2	Back	5mm	-1	-87.1	-203.2	167.2
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
LTE Band 26-Ant0	Back	5mm	-40	-81.5	-203.5	163.4	FR1 n7-Ant2	Back	5mm	-1	-87.1	-203.2	166.6
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
LTE Band 26-Ant0	Back	5mm	-40	-81.5	-203.5	158.6	FR1 n7-Ant2	Back	5mm	-1	-87.1	-203.2	162.8
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
LTE Band 30-Ant0	Back	5mm	-40	-82.4	-203.6	128.0	FR1 n25-Ant2	Back	5mm	5	-78.1	-203.5	136.7
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
LTE Band 30-Ant0	Back	5mm	-40	-82.4	-203.6	141.4	FR1 n25-Ant2	Back	5mm	5	-78.1	-203.5	148.9



WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
LTE Band 30-Ant0	Back	5mm	-40	-82.4	-203.6	165.5	FR1 n25-Ant2	Back	5mm	5	-78.1	-203.5	167.9
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
LTE Band 30-Ant0	Back	5mm	-40	-82.4	-203.6	168.4	FR1 n25-Ant2	Back	5mm	5	-78.1	-203.5	160.7
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
LTE Band 30-Ant0	Back	5mm	-40	-82.4	-203.6	126.5	FR1 n25-Ant2	Back	5mm	5	-78.1	-203.5	135.3
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
LTE Band 30-Ant0	Back	5mm	-40	-82.4	-203.6	166.8	FR1 n25-Ant2	Back	5mm	5	-78.1	-203.5	158.4
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
LTE Band 30-Ant0	Back	5mm	-40	-82.4	-203.6	164.3	FR1 n25-Ant2	Back	5mm	5	-78.1	-203.5	158.1
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
LTE Band 30-Ant0	Back	5mm	-40	-82.4	-203.6	159.5	FR1 n25-Ant2	Back	5mm	5	-78.1	-203.5	154.5
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
LTE Band 66-Ant0	Back	5mm	-40	-85	-203.5	130.6	FR1 n30-Ant2	Back	5mm	5	-78.2	-203.5	136.8
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
LTE Band 66-Ant0	Back	5mm	-40	-85	-203.5	144.0	FR1 n30-Ant2	Back	5mm	5	-78.2	-203.5	149.0
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
LTE Band 66-Ant0	Back	5mm	-40	-85	-203.5	168.1	FR1 n30-Ant2	Back	5mm	5	-78.2	-203.5	168.0
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
LTE Band 66-Ant0	Back	5mm	-40	-85	-203.5	170.9	FR1 n30-Ant2	Back	5mm	5	-78.2	-203.5	160.8
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
LTE Band 66-Ant0	Back	5mm	-40	-85	-203.5	129.1	FR1 n30-Ant2	Back	5mm	5	-78.2	-203.5	135.4
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
LTE Band 66-Ant0	Back	5mm	-40	-85	-203.5	169.4	FR1 n30-Ant2	Back	5mm	5	-78.2	-203.5	158.5
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
LTE Band 66-Ant0	Back	5mm	-40	-85	-203.5	166.8	FR1 n30-Ant2	Back	5mm	5	-78.2	-203.5	158.2
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
LTE Band 66-Ant0	Back	5mm	-40	-85	-203.5	162.0	FR1 n30-Ant2	Back	5mm	5	-78.2	-203.5	154.6
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
LTE Band 71-Ant0	Back	5mm	-40	-81.5	-203.5	127.1	FR1 n66-Ant2	Back	5mm	3.5	-85.5	-204	142.7
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
LTE Band 71-Ant0	Back	5mm	-40	-81.5	-203.5	140.5	FR1 n66-Ant2	Back	5mm	3.5	-85.5	-204	155.2
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
LTE Band 71-Ant0	Back	5mm	-40	-81.5	-203.5	164.6	FR1 n66-Ant2	Back	5mm	3.5	-85.5	-204	174.6
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
LTE Band 71-Ant0	Back	5mm	-40	-81.5	-203.5	167.5	FR1 n66-Ant2	Back	5mm	3.5	-85.5	-204	168.0
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
LTE Band 71-Ant0	Back	5mm	-40	-81.5	-203.5	125.6	FR1 n66-Ant2	Back	5mm	3.5	-85.5	-204	141.4
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
LTE Band 71-Ant0	Back	5mm	-40	-81.5	-203.5	165.9	FR1 n66-Ant2	Back	5mm	3.5	-85.5	-204	165.7
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
LTE Band 71-Ant0	Back	5mm	-40	-81.5	-203.5	163.4	FR1 n66-Ant2	Back	5mm	3.5	-85.5	-204	165.3
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
LTE Band 71-Ant0	Back	5mm	-40	-81.5	-203.5	158.6	FR1 n66-Ant2	Back	5mm	3.5	-85.5	-204	161.7
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)



LTE Band 41-Ant0	Back	5mm	-49	-84	-204	128.8	FR1 n70-Ant2	Back	5mm	3.5	-86.2	-204	143.4
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
LTE Band 41-Ant0	Back	5mm	-49	-84	-204	142.3	FR1 n70-Ant2	Back	5mm	3.5	-86.2	-204	155.8
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
LTE Band 41-Ant0	Back	5mm	-49	-84	-204	167.2	FR1 n70-Ant2	Back	5mm	3.5	-86.2	-204	175.3
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
LTE Band 41-Ant0	Back	5mm	-49	-84	-204	172.0	FR1 n70-Ant2	Back	5mm	3.5	-86.2	-204	168.7
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
LTE Band 41-Ant0	Back	5mm	-49	-84	-204	127.3	FR1 n70-Ant2	Back	5mm	3.5	-86.2	-204	142.0
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
LTE Band 41-Ant0	Back	5mm	-49	-84	-204	170.6	FR1 n70-Ant2	Back	5mm	3.5	-86.2	-204	166.4
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
LTE Band 41-Ant0	Back	5mm	-49	-84	-204	167.7	FR1 n70-Ant2	Back	5mm	3.5	-86.2	-204	166.0
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
LTE Band 41-Ant0	Back	5mm	-49	-84	-204	162.7	FR1 n70-Ant2	Back	5mm	3.5	-86.2	-204	162.4
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
FR1 n2-Ant0	Back	5mm	-40	-94.3	-203.2	139.8	FR1 n41-Ant2	Back	5mm	-1	-85	-203.2	140.5
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n2-Ant0	Back	5mm	-40	-94.3	-203.2	153.2	FR1 n41-Ant2	Back	5mm	-1	-85	-203.2	153.0
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n2-Ant0	Back	5mm	-40	-94.3	-203.2	177.4	FR1 n41-Ant2	Back	5mm	-1	-85	-203.2	173.0
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n2-Ant0	Back	5mm	-40	-94.3	-203.2	180.0	FR1 n41-Ant2	Back	5mm	-1	-85	-203.2	167.3
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
FR1 n2-Ant0	Back	5mm	-40	-94.3	-203.2	138.3	FR1 n41-Ant2	Back	5mm	-1	-85	-203.2	139.1
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
FR1 n2-Ant0	Back	5mm	-40	-94.3	-203.2	178.4	FR1 n41-Ant2	Back	5mm	-1	-85	-203.2	165.1
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n2-Ant0	Back	5mm	-40	-94.3	-203.2	176.0	FR1 n41-Ant2	Back	5mm	-1	-85	-203.2	164.5
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n2-Ant0	Back	5mm	-40	-94.3	-203.2	171.2	FR1 n41-Ant2	Back	5mm	-1	-85	-203.2	160.7
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z					X	Y	Z	
FR1 n7-Ant0	Back	5mm	-47.8	-84	-204	128.9	FR1 n48-Ant2	Back	5mm	-5	-81.2	-203.5	135.5
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n7-Ant0	Back	5mm	-47.8	-84	-204	142.4	FR1 n48-Ant2	Back	5mm	-5	-81.2	-203.5	148.1
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n7-Ant0	Back	5mm	-47.8	-84	-204	167.2	FR1 n48-Ant2	Back	5mm	-5	-81.2	-203.5	168.4
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n7-Ant0	Back	5mm	-47.8	-84	-204	171.7	FR1 n48-Ant2	Back	5mm	-5	-81.2	-203.5	163.5
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
FR1 n7-Ant0	Back	5mm	-47.8	-84	-204	127.4	FR1 n48-Ant2	Back	5mm	-5	-81.2	-203.5	134.1
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
FR1 n7-Ant0	Back	5mm	-47.8	-84	-204	170.3	FR1 n48-Ant2	Back	5mm	-5	-81.2	-203.5	161.3
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n7-Ant0	Back	5mm	-47.8	-84	-204	167.4	FR1 n48-Ant2	Back	5mm	-5	-81.2	-203.5	160.5
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n7-Ant0	Back	5mm	-47.8	-84	-204	162.4	FR1 n48-Ant2	Back	5mm	-5	-81.2	-203.5	156.6



Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
			X	Y	Z				X	Y	Z		
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
FR1 n12-Ant0	Back	5mm	-43.1	-84.2	-203.4	129.4	FR1 n77-Ant2	Back	5mm	-5	-80	-203.3	134.4
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203		WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n12-Ant0	Back	5mm	-43.1	-84.2	-203.4	142.9	FR1 n77-Ant2	Back	5mm	-5	-80	-203.3	147.0
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4		WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n12-Ant0	Back	5mm	-43.1	-84.2	-203.4	167.3	FR1 n77-Ant2	Back	5mm	-5	-80	-203.3	167.2
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203		WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n12-Ant0	Back	5mm	-43.1	-84.2	-203.4	170.8	FR1 n77-Ant2	Back	5mm	-5	-80	-203.3	162.3
BT -Ant4		5mm	-5	82.3	-203		BT -Ant4		5mm	-5	82.3	-203	
FR1 n12-Ant0	Back	5mm	-43.1	-84.2	-203.4	128.0	FR1 n77-Ant2	Back	5mm	-5	-80	-203.3	133.0
BT -Ant6		5mm	-55	43.2	-203		BT -Ant6		5mm	-55	43.2	-203	
FR1 n12-Ant0	Back	5mm	-43.1	-84.2	-203.4	169.3	FR1 n77-Ant2	Back	5mm	-5	-80	-203.3	160.1
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203		WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n12-Ant0	Back	5mm	-43.1	-84.2	-203.4	166.6	FR1 n77-Ant2	Back	5mm	-5	-80	-203.3	159.3
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203		WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n12-Ant0	Back	5mm	-43.1	-84.2	-203.4	161.8	FR1 n77-Ant2	Back	5mm	-5	-80	-203.3	155.4
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203		WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	

Band	Position	Gap	SAR peak location (mm)			3D distance (mm)
		(mm)	X	Y	Z	
FR1 n14-Ant0	Back	5mm	-43.5	-83.5	-203.4	128.7
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n14-Ant0	Back	5mm	-43.5	-83.5	-203.4	142.2
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n14-Ant0	Back	5mm	-43.5	-83.5	-203.4	166.6
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n14-Ant0	Back	5mm	-43.5	-83.5	-203.4	170.2
BT -Ant4		5mm	-5	82.3	-203	
FR1 n14-Ant0	Back	5mm	-43.5	-83.5	-203.4	127.2
BT -Ant6		5mm	-55	43.2	-203	
FR1 n14-Ant0	Back	5mm	-43.5	-83.5	-203.4	168.7
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n14-Ant0	Back	5mm	-43.5	-83.5	-203.4	166.0
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n14-Ant0	Back	5mm	-43.5	-83.5	-203.4	161.1
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap	SAR peak location (mm)			3D distance (mm)
		(mm)	X	Y	Z	
FR1 n25-Ant0	Back	5mm	-55	-77.4	-203.5	122.1
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n25-Ant0	Back	5mm	-55	-77.4	-203.5	135.6
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n25-Ant0	Back	5mm	-55	-77.4	-203.5	161.0
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n25-Ant0	Back	5mm	-55	-77.4	-203.5	167.3
BT -Ant4		5mm	-5	82.3	-203	
FR1 n25-Ant0	Back	5mm	-55	-77.4	-203.5	120.6
BT -Ant6		5mm	-55	43.2	-203	
FR1 n25-Ant0	Back	5mm	-55	-77.4	-203.5	166.1



WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n25-Ant0	Back	5mm	-55	-77.4	-203.5	162.8
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n25-Ant0	Back	5mm	-55	-77.4	-203.5	157.7
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
FR1 n26-Ant0	Back	5mm	-41.5	-87	-204	132.4
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n26-Ant0	Back	5mm	-41.5	-87	-204	145.8
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n26-Ant0	Back	5mm	-41.5	-87	-204	170.1
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n26-Ant0	Back	5mm	-41.5	-87	-204	173.2
BT -Ant4		5mm	-5	82.3	-203	
FR1 n26-Ant0	Back	5mm	-41.5	-87	-204	130.9
BT -Ant6		5mm	-55	43.2	-203	
FR1 n26-Ant0	Back	5mm	-41.5	-87	-204	171.6
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n26-Ant0	Back	5mm	-41.5	-87	-204	169.1
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n26-Ant0	Back	5mm	-41.5	-87	-204	164.3
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
FR1 n30-Ant0	Back	5mm	-40	-83.2	-203.4	128.8
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n30-Ant0	Back	5mm	-40	-83.2	-203.4	142.2
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n30-Ant0	Back	5mm	-40	-83.2	-203.4	166.3
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n30-Ant0	Back	5mm	-40	-83.2	-203.4	169.2
BT -Ant4		5mm	-5	82.3	-203	
FR1 n30-Ant0	Back	5mm	-40	-83.2	-203.4	127.3
BT -Ant6		5mm	-55	43.2	-203	
FR1 n30-Ant0	Back	5mm	-40	-83.2	-203.4	167.6
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n30-Ant0	Back	5mm	-40	-83.2	-203.4	165.1
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n30-Ant0	Back	5mm	-40	-83.2	-203.4	160.3
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
FR1 n66-Ant0	Back	5mm	-37	-90	-204	135.9
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n66-Ant0	Back	5mm	-37	-90	-204	149.3
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n66-Ant0	Back	5mm	-37	-90	-204	173.2
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n66-Ant0	Back	5mm	-37	-90	-204	175.2
BT -Ant4		5mm	-5	82.3	-203	



FR1 n66-Ant0	Back	5mm	-37	-90	-204	134.4
BT -Ant6		5mm	-55	43.2	-203	
FR1 n66-Ant0	Back	5mm	-37	-90	-204	173.6
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n66-Ant0	Back	5mm	-37	-90	-204	171.3
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n66-Ant0	Back	5mm	-37	-90	-204	166.6
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	SAR peak location (mm)			3D distance (mm)
FR1 n70-Ant0	Back	5mm	-37	-90.5	-204	136.4
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n70-Ant0	Back	5mm	-37	-90.5	-204	149.8
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n70-Ant0	Back	5mm	-37	-90.5	-204	173.7
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n70-Ant0	Back	5mm	-37	-90.5	-204	175.7
BT -Ant4		5mm	-5	82.3	-203	
FR1 n70-Ant0	Back	5mm	-37	-90.5	-204	134.9
BT -Ant6		5mm	-55	43.2	-203	
FR1 n70-Ant0	Back	5mm	-37	-90.5	-204	174.1
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n70-Ant0	Back	5mm	-37	-90.5	-204	171.8
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n70-Ant0	Back	5mm	-37	-90.5	-204	167.1
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	X	Y	Z	3D distance (mm)
FR1 n71-Ant0	Back	5mm	-43.1	-83.6	-204	128.9
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n71-Ant0	Back	5mm	-43.1	-83.6	-204	142.3
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n71-Ant0	Back	5mm	-43.1	-83.6	-204	166.7
WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n71-Ant0	Back	5mm	-43.1	-83.6	-204	170.2
BT -Ant4		5mm	-5	82.3	-203	
FR1 n71-Ant0	Back	5mm	-43.1	-83.6	-204	127.4
BT -Ant6		5mm	-55	43.2	-203	
FR1 n71-Ant0	Back	5mm	-43.1	-83.6	-204	168.7
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n71-Ant0	Back	5mm	-43.1	-83.6	-204	166.0
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n71-Ant0	Back	5mm	-43.1	-83.6	-204	161.2
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	
Band	Position	Gap (mm)	X	Y	Z	3D distance (mm)
FR1 n41-Ant0	Back	5mm	-50.2	-84	-204	128.8
WLAN2.4G -Ant4+6(Ant6)		5mm	-55	44.7	-203	
FR1 n41-Ant0	Back	5mm	-50.2	-84	-204	142.3
WLAN5G -Ant5+4(Ant5)		5mm	-55	58.2	-203.4	
FR1 n41-Ant0	Back	5mm	-50.2	-84	-204	167.3



WLAN6G -Ant5+4(Ant5)		5mm	-42	83.1	-203	
FR1 n41-Ant0	Back	5mm	-50.2	-84	-204	172.3
BT -Ant4		5mm	-5	82.3	-203	
FR1 n41-Ant0	Back	5mm	-50.2	-84	-204	127.3
BT -Ant6		5mm	-55	43.2	-203	
FR1 n41-Ant0	Back	5mm	-50.2	-84	-204	171.0
WLAN2.4G -Ant4+6(Ant4)		5mm	-2.3	80.1	-203	
FR1 n41-Ant0	Back	5mm	-50.2	-84	-204	168.0
WLAN5G Ant5+4(Ant4)		5mm	-10.5	79.2	-203	
FR1 n41-Ant0	Back	5mm	-50.2	-84	-204	163.0
WLAN6G Ant5+4(Ant4)		5mm	-15	75.1	-203	

Note: According to the above tables the minimum distance is as follows:

Simultaneous	Position	minimum 3D distance (mm)
WWAN+WLAN+BT	Back 5mm	120.1

18. Supplemental tuner tests results

General Note:

1. This device implements impedance tuner (144 states) antenna tuning techniques in the LTE Band 5/7/12/13/14/17/26/30/38/41, and 5G NR n5/7/12/14/26/30/41 for ANT0.
2. This device implements impedance tuner (144 states) antenna tuning techniques in the LTE Band 2/4/5/7/12/13/14/17/25/26/30/38/41/66/71, and 5G NR n2/5/7/12/14/25/26/30/41/66/71 for ANT1.
3. LTE B17 / B5 / B4 / B2 / B38 SAR test was covered by LTE B12 / B26 / B66 / B25 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
4. 5G NR n26 / n25 SAR test was covered by 5G NR n5 / n2; according to April 2015 TCB workshop, SAR test for overlapping NR bands can be reduced.
5. Per 2019, April TCB Workshop titled "RF Exposure Procedures", the following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions.
 - 1) SAR is measured according to required procedures with dynamic tuner active allowing device to automatically tune. Auto-tune state determined by device during normal SAR measurement verified and listed alongside the reported SAR results.
 - 2) Total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
 - 3) 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).
 - 4) Single point measurements performed at the peak SAR location of the highest measured SAR configuration for each combination. SAR probe remains stationary throughout the entire series of single point measurements for each combination.
 - 5) If any single point SAR measurement result is > 1.2 W/kg for 1gSAR (or > 3.0 W/kg for 10gSAR) for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination.
6. The above test procedures were followed to demonstrate that the SAR results in Section 16 represented 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 ANT1 is 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. When the single point SAR or 10g SAR was > 3.0 W/kg for a particular band / mode / exposure condition, point SAR measurements were made for all 144 tuner states.
8. According to KDB 648474 D04 v01r03, in order to reduce the number of SAR tests required to demonstrate compliance for the numerous tuning states, certain SAR screening procedures were considered to identify the higher SAR between body-worn and hotspot scenarios that need normally required SAR measurements and allow SAR test reduction for the lower SAR conditions.
9. According to KDB 648474 D04 v01r03, 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.
10. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.
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

- [1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”
- [2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992
- [3] IEEE Std. 1528-2013, “IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, “SAR Measurement Requirements for 100 MHz to 6 GHz”, Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.
- [7] FCC KDB 648474 D04 v01r03, “SAR Evaluation Considerations for Wireless Handsets”, Oct 2015.
- [8] FCC KDB 248227 D01 v02r02, “SAR Guidance for IEEE 802.11 (WiFi) Transmitters”, Oct 2015.
- [9] FCC KDB 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015
- [10] FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015
- [11] FCC KDB 941225 D05 v02r05, “SAR Evaluation Considerations for LTE Devices”, Dec 2015
- [12] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015
- [13] FCC KDB 941225 D06 v02r01, “SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities”, Oct 2015.
- [14] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

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