



16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
68	LTE Band 71	20M	QPSK	1	49	-	Front	5mm	Ant 0	-	DSI 3	133297	680.5	22.83	24.00	1.309	-	-	0.11	0.463	0.606
	LTE Band 71	20M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI 3	133297	680.5	22.83	24.00	1.309	-	-	0.01	0.753	0.986
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	133297	680.5	22.73	24.00	1.340	-	-	0.01	0.437	0.585
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	133297	680.5	22.73	24.00	1.340	-	-	0.12	0.711	0.953
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	133297	680.5	22.71	24.00	1.346	-	-	0.15	0.683	0.919
	LTE Band 71	20M	QPSK	1	49	-	Front	5mm	Ant 1	-	DSI 3	133297	680.5	22.73	24.00	1.340	-	-	0.05	0.359	0.481
	LTE Band 71	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	133297	680.5	22.73	24.00	1.340	-	-	-0.14	0.590	0.790
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	133297	680.5	22.70	24.00	1.349	-	-	-0.02	0.343	0.463
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	133297	680.5	22.70	24.00	1.349	-	-	0.19	0.563	0.759
69	LTE Band 12	10M	QPSK	1	25	-	Front	5mm	Ant 0	-	DSI 3	23095	707.5	23.04	24.00	1.247	-	-	0.09	0.617	0.770
	LTE Band 12	10M	QPSK	1	25	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	23.04	24.00	1.247	-	-	-0.09	0.850	1.060
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	23095	707.5	23.01	24.00	1.256	-	-	-0.09	0.589	0.740
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	23.01	24.00	1.256	-	-	-0.08	0.812	1.020
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	22.97	24.00	1.268	-	-	-0.05	0.726	0.920
	LTE Band 12	10M	QPSK	1	25	-	Front	5mm	Ant 1	-	DSI 3	23095	707.5	22.91	24.00	1.285	-	-	-0.17	0.278	0.357
	LTE Band 12	10M	QPSK	1	25	-	Back	5mm	Ant 1	-	DSI 3	23095	707.5	22.91	24.00	1.285	-	-	-0.18	0.648	0.833
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	23095	707.5	22.89	24.00	1.291	-	-	-0.06	0.243	0.314
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	23095	707.5	22.89	24.00	1.291	-	-	-0.17	0.560	0.723
70	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	23095	707.5	22.89	23.50	1.151	-	-	0.03	0.548	0.631
	LTE Band 13	10M	QPSK	1	25	-	Front	5mm	Ant 0	-	DSI 3	23230	782	22.89	24.00	1.291	-	-	-0.08	0.550	0.710
	LTE Band 13	10M	QPSK	1	25	-	Back	5mm	Ant 0	-	DSI 3	23230	782	22.89	24.00	1.291	-	-	0.03	0.897	1.158
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	23230	782	22.88	24.00	1.294	-	-	-0.04	0.525	0.679
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	22.88	24.00	1.294	-	-	0.09	0.857	1.109
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	22.82	24.00	1.312	-	-	0.01	0.713	0.936
	LTE Band 13	10M	QPSK	1	25	-	Front	5mm	Ant 1	-	DSI 3	23230	782	22.68	24.00	1.355	-	-	-0.01	0.352	0.477
	LTE Band 13	10M	QPSK	1	25	-	Back	5mm	Ant 1	-	DSI 3	23230	782	22.68	24.00	1.355	-	-	0.14	0.604	0.819
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	23230	782	22.57	24.00	1.390	-	-	-0.03	0.336	0.467
71	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	23230	782	22.57	24.00	1.390	-	-	0.04	0.577	0.802
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	23230	782	22.55	24.00	1.396	-	-	-0.01	0.536	0.748
	LTE Band 14	10M	QPSK	1	25	-	Front	5mm	Ant 0	-	DSI 3	23330	793	22.76	24.00	1.330	-	-	-0.14	0.472	0.628
	LTE Band 14	10M	QPSK	1	25	-	Back	5mm	Ant 0	-	DSI 3	23330	793	22.76	24.00	1.330	-	-	-0.08	0.794	1.056
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	23330	793	22.74	24.00	1.337	-	-	0.15	0.451	0.603
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	23330	793	22.74	24.00	1.337	-	-	-0.08	0.758	1.013
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	23330	793	22.71	24.00	1.346	-	-	-0.09	0.737	0.992
	LTE Band 14	10M	QPSK	1	25	-	Front	5mm	Ant 1	-	DSI 3	23330	793	22.58	24.00	1.387	-	-	0.09	0.322	0.447
	LTE Band 14	10M	QPSK	1	25	-	Back	5mm	Ant 1	-	DSI 3	23330	793	22.58	24.00	1.387	-	-	0.04	0.601	0.833
72	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	23330	793	22.57	24.00	1.390	-	-	0.02	0.308	0.428
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	23330	793	22.57	24.00	1.390	-	-	0.14	0.477	0.663
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	23330	793	22.54	24.00	1.400	-	-	-0.11	0.475	0.665
	FR1 n71	30M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI 3	136100	680.5	23.12	24.00	1.225	-	-	-0.1	0.317	0.388
	FR1 n71	30M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI 3	136100	680.5	23.12	24.00	1.225	-	-	0.15	0.456	0.558
	FR1 n71	30M	QPSK	80	40	DFT-15	Front	5mm	Ant 0	-	DSI 3	136100	680.5	22.75	24.00	1.334	-	-	-0.08	0.303	0.404
	FR1 n71	30M	QPSK	80	40	DFT-15	Back	5mm	Ant 0	-	DSI 3	136100	680.5	22.75	24.00	1.334	-	-	-0.09	0.415	0.553
	FR1 n71	30M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	136100	680.5	23.30	24.00	1.175	-	-	-0.18	0.219	0.257
	FR1 n71	30M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	136100	680.5	23.30	24.00	1.175	-	-	-0.04	0.611	0.718
73	FR1 n71	30M	QPSK	80	40	DFT-15	Front	5mm	Ant 1	-	DSI 3	136100	680.5	22.96	24.00	1.271	-	-	0.05	0.201	0.255
	FR1 n71	30M	QPSK	80	40	DFT-15	Back	5mm	Ant 1	-	DSI 3	136100	680.5	22.96	24.00	1.271	-	-	0.09	0.555	0.705
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI 3	141500	707.5	23.01	24.00	1.256	-	-	0.19	0.315	0.396
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI 3	141500	707.5	23.01	24.00	1.256	-	-	0.03	0.593	0.745
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	-	DSI 3	141500	707.5	22.96	24.00	1.271	-	-	0.14	0.311	0.395



	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	-	DSI 3	141500	707.5	22.96	24.00	1.271	-	-	-0.18	0.526	0.668
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	141500	707.5	23.37	24.00	1.156	-	-	-0.11	0.254	0.294
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	141500	707.5	23.37	24.00	1.156	-	-	-0.07	0.641	0.741
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	-	DSI 3	141500	707.5	23.23	24.00	1.194	-	-	0.02	0.220	0.263
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	-	DSI 3	141500	707.5	23.23	24.00	1.194	-	-	-0.1	0.518	0.618
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI 3	158600	793	22.82	24.00	1.312	-	-	0.11	0.423	0.555
74	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI 3	158600	793	22.82	24.00	1.312	-	-	0.01	0.656	0.861
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 0	-	DSI 3	158600	793	22.71	24.00	1.346	-	-	0.01	0.421	0.567
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 0	-	DSI 3	158600	793	22.71	24.00	1.346	-	-	0.12	0.633	0.852
	FR1 n14	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 0	-	DSI 3	158600	793	22.68	24.00	1.355	-	-	0.12	0.612	0.829
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	158600	793	23.21	24.00	1.199	-	-	-0.08	0.271	0.325
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	158600	793	23.21	24.00	1.199	-	-	0.14	0.491	0.589
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	-	DSI 3	158600	793	23.11	24.00	1.227	-	-	0.15	0.298	0.366
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	-	DSI 3	158600	793	23.11	24.00	1.227	-	-	-0.08	0.474	0.582
835MHz																					
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 0	-	DSI 3	189	836.4	27.93	28.80	1.222	-	-	-0.09	0.304	0.371
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	189	836.4	27.93	28.80	1.222	-	-	-0.04	0.527	0.644
75	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	128	824.2	27.82	28.80	1.253	-	-	0.18	0.782	0.980
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	251	848.8	27.92	28.80	1.225	-	-	0.11	0.730	0.894
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	4182	836.4	22.27	24.00	1.489	-	-	-0.09	0.358	0.533
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4182	836.4	22.27	24.00	1.489	-	-	-0.08	0.774	1.153
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4132	826.4	22.15	24.00	1.531	-	-	0.12	0.693	1.061
76	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	22.25	24.00	1.496	-	-	-0.05	0.801	1.198
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	4182	836.4	22.65	24.00	1.365	-	-	0.09	0.466	0.636
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4182	836.4	22.65	24.00	1.365	-	-	0.19	0.633	0.864
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4132	826.4	22.50	24.00	1.413	-	-	0.15	0.588	0.831
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4233	846.6	22.62	24.00	1.374	-	-	0.04	0.565	0.776
	LTE Band 26	15M	QPSK	1	37	-	Front	5mm	Ant 0	-	DSI 3	26865	831.5	22.66	24.00	1.361	-	-	-0.09	0.526	0.716
	LTE Band 26	15M	QPSK	1	37	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	22.66	24.00	1.361	-	-	-0.04	0.853	1.161
	LTE Band 26	15M	QPSK	1	37	-	Back	5mm	Ant 0	-	DSI 3	26765	821.5	22.47	24.00	1.422	-	-	0.18	0.782	1.112
77	LTE Band 26	15M	QPSK	1	37	-	Back	5mm	Ant 0	-	DSI 3	26965	841.5	22.62	24.00	1.374	-	-	0.11	0.888	1.220
	LTE Band 5B	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	20575+ 20476	841.5+ 831.6	22.54	24.00	1.400	-	-	0.06	0.851	1.191
	LTE Band 26	15M	QPSK	1	37	-	Back	5mm	Ant 0	Headset	DSI 3	26965	841.5	22.62	24.00	1.374	-	-	0.06	0.822	1.129
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	DSI 3	26865	831.5	22.61	24.00	1.377	-	-	-0.08	0.496	0.683
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	22.61	24.00	1.377	-	-	-0.02	0.814	1.121
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI 3	26765	821.5	22.58	24.00	1.387	-	-	-0.05	0.779	1.080
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI 3	26965	841.5	22.55	24.00	1.396	-	-	0.19	0.866	1.209
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	22.57	24.00	1.390	-	-	0.15	0.822	1.143
	LTE Band 26	15M	QPSK	1	37	-	Front	5mm	Ant 1	-	DSI 3	26865	831.5	22.66	24.00	1.361	-	-	-0.19	0.299	0.407
	LTE Band 26	15M	QPSK	1	37	-	Back	5mm	Ant 1	-	DSI 3	26865	831.5	22.66	24.00	1.361	-	-	0.07	0.570	0.776
	LTE Band 26	15M	QPSK	1	37	-	Back	5mm	Ant 1	-	DSI 3	26765	821.5	22.44	24.00	1.432	-	-	-0.05	0.584	0.836
	LTE Band 5B	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 7	20575+ 20476	841.5+ 831.6	22.57	24.00	1.390	-	-	0.12	0.591	0.821
	LTE Band 26	15M	QPSK	1	37	-	Back	5mm	Ant 1	-	DSI 3	26965	841.5	22.60	24.00	1.380	-	-	-0.08	0.587	0.810
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	-	DSI 3	26865	831.5	22.64	24.00	1.368	-	-	-0.03	0.286	0.391
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	DSI 3	26865	831.5	22.64	24.00	1.368	-	-	-0.19	0.544	0.744
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 1	-	DSI 3	26865	831.5	22.57	24.00	1.390	-	-	-0.1	0.554	0.770
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI 3	166300	831.5	23.09	24.00	1.233	-	-	0.15	0.393	0.485
78	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI 3	166300	831.5	23.09	24.00	1.233	-	-	-0.14	0.811	1.000
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	DSI 3	166300	831.5	22.96	24.00	1.271	-	-	-0.1	0.375	0.476
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	DSI 3	166300	831.5	22.96	24.00	1.271	-	-	0.15	0.774	0.983
	FR1 n26	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 0	-	DSI 3	166300	831.5	22.62	23.50	1.225	-	-	-0.08	0.723	0.885
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	166300	831.5	22.69	23.50	1.205	-	-	0.06	0.392	0.472
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	166300	831.5	22.69	23.50	1.205	-	-	0.16	0.677	0.816
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	-	DSI 4	166300	831.5	23.30	24.00	1.175	-	-	0.11	0.100	0.117
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	DSI 4	166300	831.5	23.30	24.00	1.175	-	-	0.06	0.071	0.083



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	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	-	DSI 3	166300	831.5	22.51	23.50	1.256	-	-	0.03	0.374	0.470
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	-	DSI 3	166300	831.5	22.51	23.50	1.256	-	-	-0.06	0.647	0.813
	FR1 n26	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 1	-	DSI 3	166300	831.5	22.05	23.00	1.245	-	-	-0.08	0.582	0.724
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	1413	1732.6	17.19	18.20	1.262	-	-	-0.12	0.604	0.762
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	1413	1732.6	17.19	18.20	1.262	-	-	0.11	0.901	1.137
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	1312	1712.4	17.19	18.20	1.262	-	-	-0.09	0.806	1.017
79	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	1513	1752.6	17.19	18.20	1.262	-	-	-0.07	0.906	1.143
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	-	DSI 4	1413	1732.6	22.82	24.00	1.312	-	-	-0.12	0.799	1.048
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	22mm	Ant 0	-	DSI 4	1513	1752.6	22.70	24.00	1.349	-	-	-0.1	0.455	0.614
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	1413	1732.6	17.10	18.40	1.349	-	-	-0.01	0.247	0.333
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1413	1732.6	17.10	18.40	1.349	-	-	-0.15	0.559	0.754
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1312	1712.4	16.97	18.40	1.390	-	-	0.11	0.568	0.789
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1513	1752.6	17.04	18.40	1.368	-	-	0.08	0.535	0.732
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 1	-	DSI 4	1413	1732.6	22.63	24.00	1.371	-	-	0.08	0.263	0.361
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	22mm	Ant 1	-	DSI 4	1312	1712.4	22.41	24.00	1.442	-	-	-0.13	0.233	0.336
	LTE Band 66	20M	QPSK	1	49	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	17.34	18.40	1.276	-	-	-0.08	0.716	0.914
80	LTE Band 66	20M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	17.34	18.40	1.276	-	-	0.02	0.962	1.228
	LTE Band 66C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132322+ 132520	1745+ 1764.8	17.30	18.40	1.288	-	-	0.08	0.926	1.193
	LTE Band 66_Other PA	20M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	17.55	18.40	1.216	-	-	-0.03	0.956	1.163
	LTE Band 66	20M	QPSK	1	49	-	Front	5mm	Ant 0	-	DSI 3	132072	1720	17.28	18.40	1.294	-	-	-0.14	0.688	0.890
	LTE Band 66	20M	QPSK	1	49	-	Front	5mm	Ant 0	-	DSI 3	132572	1770	17.24	18.40	1.306	-	-	0.19	0.661	0.863
	LTE Band 66	20M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI 3	132072	1720	17.28	18.40	1.294	-	-	0.1	0.934	1.209
	LTE Band 66	20M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI 3	132572	1770	17.24	18.40	1.306	-	-	0	0.911	1.190
	LTE Band 66	20M	QPSK	1	49	-	Back	5mm	Ant 0	Headset	DSI 3	132322	1745	17.34	18.40	1.276	-	-	0.17	0.829	1.058
	LTE Band 66	20M	QPSK	1	49	-	Front	14mm	Ant 0	-	DSI 4	132322	1745	22.89	24.00	1.291	-	-	-0.09	0.758	0.979
	LTE Band 66	20M	QPSK	1	49	-	Back	22mm	Ant 0	-	DSI 4	132322	1745	22.89	24.00	1.291	-	-	0.05	0.426	0.550
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	17.32	18.40	1.282	-	-	-0.08	0.684	0.877
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	17.32	18.40	1.282	-	-	0.13	0.919	1.178
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	132072	1720	17.24	18.40	1.306	-	-	0.1	0.657	0.858
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	132572	1770	17.23	18.40	1.309	-	-	-0.19	0.631	0.826
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132072	1720	17.24	18.40	1.306	-	-	0.18	0.892	1.165
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132572	1770	17.23	18.40	1.309	-	-	0.18	0.870	1.139
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	17.28	18.40	1.294	-	-	-0.08	0.635	0.822
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	17.28	18.40	1.294	-	-	-0.16	0.911	1.179
	LTE Band 66	20M	QPSK	1	49	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	16.74	18.00	1.337	-	-	-0.03	0.257	0.344
	LTE Band 66	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	16.74	18.00	1.337	-	-	0.04	0.580	0.775
	LTE Band 66	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	16.67	18.00	1.358	-	-	-0.11	0.633	0.860
	LTE Band 66C	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132072+ 132270	1720+ 1740	16.70	18.00	1.349	-	-	0.01	0.608	0.820
	LTE Band 66_Other PA	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	17.13	18.00	1.222	-	-	0.19	0.648	0.792
	LTE Band 66	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	16.69	18.00	1.352	-	-	0.19	0.542	0.733
	LTE Band 66	20M	QPSK	1	49	-	Front	14mm	Ant 1	-	DSI 4	132322	1745	22.87	24.00	1.297	-	-	-0.03	0.213	0.276
	LTE Band 66	20M	QPSK	1	49	-	Back	22mm	Ant 1	-	DSI 4	132072	1720	22.81	24.00	1.315	-	-	0.04	0.215	0.283
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	16.69	18.00	1.352	-	-	-0.01	0.245	0.331
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	16.69	18.00	1.352	-	-	0.09	0.554	0.749
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	16.66	18.00	1.361	-	-	-0.16	0.535	0.728
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI 3	340500	1702.5	18.95	20.00	1.274	-	-	0.19	0.691	0.880
81	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI 3	340500	1702.5	18.95	20.00	1.274	-	-	0.13	0.929	1.183
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	14mm	Ant 0	-	DSI 4	340500	1702.5	22.97	24.00	1.268	-	-	-0.11	0.438	0.555
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	22mm	Ant 0	-	DSI 4	340500	1702.5	22.97	24.00	1.268	-	-	-0.04	0.255	0.323
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	-	DSI 3	340500	1702.5	18.90	20.00	1.288	-	-	-0.12	0.622	0.801
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	-	DSI 3	340500	1702.5	18.90	20.00	1.288	-	-	-0.04	0.874	1.126
	FR1 n70	15M	QPSK	75	0	DFT-15	Front	5mm	Ant 0	-	DSI 3	340500	1702.5	18.83	20.00	1.309	-	-	0.02	0.631	0.826
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 0	-	DSI 3	340500	1702.5	18.83	20.00	1.309	-	-	0.11	0.831	1.088
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	340500	1702.5	18.34	19.00	1.164	-	-	0.08	0.340	0.396



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	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	340500	1702.5	18.34	19.00	1.164	-	-	0.05	0.701	0.816
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	-	DSI 4	340500	1702.5	23.36	24.00	1.159	-	-	-0.1	0.217	0.251
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	DSI 4	340500	1702.5	23.36	24.00	1.159	-	-	0.08	0.205	0.238
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	-	DSI 3	340500	1702.5	18.27	19.00	1.183	-	-	-0.19	0.325	0.384
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	-	DSI 3	340500	1702.5	18.27	19.00	1.183	-	-	0.05	0.669	0.791
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 1	-	DSI 3	340500	1702.5	18.23	19.00	1.194	-	-	0.08	0.621	0.741
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI 3	349000	1745	17.27	18.00	1.183	-	-	0.16	0.667	0.789
82	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI 3	349000	1745	17.27	18.00	1.183	-	-	-0.13	0.934	1.105
	FR1 n66_Other PA	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI 3	349000	1745	17.05	18.00	1.245	-	-	-0.06	0.817	1.017
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 0	-	DSI 4	349000	1745	23.31	24.00	1.172	-	-	0.13	0.617	0.723
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	22mm	Ant 0	-	DSI 4	349000	1745	23.31	24.00	1.172	-	-	-0.11	0.355	0.416
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	DSI 3	349000	1745	17.23	18.00	1.194	-	-	0.16	0.640	0.764
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI 3	349000	1745	17.23	18.00	1.194	-	-	-0.13	0.892	1.065
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	-	DSI 3	349000	1745	17.21	18.00	1.199	-	-	-0.04	0.870	1.044
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	349000	1745	17.60	18.50	1.230	-	-	-0.12	0.134	0.165
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	349000	1745	17.60	18.50	1.230	-	-	-0.18	0.616	0.758
	FR1 n66_Other PA	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	349000	1745	17.43	18.50	1.279	-	-	0.11	0.565	0.723
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	-	DSI 4	349000	1745	23.08	24.00	1.236	-	-	-0.03	0.216	0.267
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	DSI 4	349000	1745	23.08	24.00	1.236	-	-	-0.09	0.200	0.247
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	-	DSI 3	349000	1745	17.53	18.50	1.250	-	-	-0.03	0.128	0.160
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	-	DSI 3	349000	1745	17.53	18.50	1.250	-	-	-0.17	0.588	0.735
1900MHz																					
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 0	-	DSI 3	661	1880	22.51	23.40	1.227	-	-	-0.03	0.515	0.632
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	661	1880	22.51	23.40	1.227	-	-	0.04	0.919	1.128
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	512	1850.2	22.43	23.40	1.250	-	-	-0.18	0.940	1.175
83	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	810	1909.8	22.46	23.40	1.242	-	-	0.03	1.030	1.279
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	Headset	DSI 3	810	1909.8	22.46	23.40	1.242	-	-	-0.13	0.992	1.232
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	14mm	Ant 0	-	DSI 4	661	1880	24.88	25.80	1.236	-	-	0.01	0.331	0.409
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	22mm	Ant 0	-	DSI 4	810	1909.8	24.81	25.80	1.256	-	-	-0.19	0.226	0.284
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	9400	1880	16.02	17.20	1.312	-	-	0.11	0.562	0.737
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9400	1880	16.02	17.20	1.312	-	-	0.18	0.838	1.100
84	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9262	1852.4	15.99	17.20	1.321	-	-	-0.16	0.888	1.173
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9538	1907.6	15.96	17.20	1.330	-	-	-0.13	0.772	1.027
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	-	DSI 4	9400	1880	22.75	24.00	1.334	-	-	0.13	0.749	0.999
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	22mm	Ant 0	-	DSI 4	9262	1852.4	22.74	24.00	1.337	-	-	0.12	0.513	0.686
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	9400	1880	17.92	19.50	1.439	-	-	-0.01	0.320	0.460
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9400	1880	17.92	19.50	1.439	-	-	0.01	0.559	0.804
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9262	1852.4	17.86	19.50	1.459	-	-	-0.03	0.604	0.881
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9538	1907.6	17.87	19.50	1.455	-	-	-0.01	0.551	0.802
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 1	-	DSI 4	9400	1880	22.45	24.00	1.429	-	-	0.05	0.287	0.410
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	22mm	Ant 1	-	DSI 4	9262	1852.4	22.44	24.00	1.432	-	-	0.09	0.208	0.298
	LTE Band 25	20M	QPSK	1	49	-	Front	5mm	Ant 0	-	DSI 3	26340	1880	16.07	17.40	1.358	-	-	-0.07	0.627	0.852
	LTE Band 25	20M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	16.07	17.40	1.358	-	-	-0.11	0.873	1.186
	LTE Band 25	20M	QPSK	1	49	-	Front	5mm	Ant 0	-	DSI 3	26140	1860	15.99	17.40	1.384	-	-	0.17	0.656	0.908
	LTE Band 25	20M	QPSK	1	49	-	Front	5mm	Ant 0	-	DSI 3	26590	1905	15.95	17.40	1.396	-	-	0.19	0.609	0.850
85	LTE Band 25	20M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI 3	26140	1860	15.99	17.40	1.384	-	-	0.17	0.885	1.224
	LTE Band 25_Other PA	20M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI 3	26140	1860	16.63	17.40	1.194	-	-	0.11	0.923	1.102
	LTE Band 25	20M	QPSK	1	49	-	Back	5mm	Ant 0	Headset	DSI 3	26590	1905	15.95	17.40	1.396	-	-	0.19	0.822	1.148
	LTE Band 25	20M	QPSK	1	49	-	Back	5mm	Ant 0	Headset	DSI 3	26140	1860	15.99	17.40	1.384	-	-	-0.09	0.834	1.154
	LTE Band 25	20M	QPSK	1	49	-	Front	14mm	Ant 0	-	DSI 4	26340	1880	22.67	24.00	1.358	-	-	-0.16	0.621	0.844
	LTE Band 25	20M	QPSK	1	49	-	Back	22mm	Ant 0	-	DSI 4	26140	1860	22.51	24.00	1.409	-	-	0.18	0.407	0.574
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	26340	1880	16.03	17.40	1.371	-	-	-0.1	0.599	0.821
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	16.03	17.40	1.371	-	-	0.02	0.834	1.143
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	26140	1860	15.95	17.40	1.396	-	-	0.02	0.626	0.874
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	26590	1905	15.87	17.40	1.422	-	-	0.04	0.582	0.828
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	26140	1860	15.95	17.40	1.396	-	-	0.19	0.845	1.180



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	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	26590	1905	15.87	17.40	1.422	-	-	0.17	0.785	1.117
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	26340	1880	16.01	17.40	1.377	-	-	-0.14	0.572	0.788
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	16.01	17.40	1.377	-	-	-0.01	0.810	1.116
	LTE Band 25	20M	QPSK	1	49	-	Front	5mm	Ant 1	-	DSI 3	26340	1880	17.68	19.00	1.355	-	-	0.04	0.302	0.409
	LTE Band 25	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	26340	1880	17.68	19.00	1.355	-	-	0.17	0.644	0.873
	LTE Band 25_Other PA	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	26340	1880	18.21	19.00	1.199	-	-	-0.13	0.635	0.762
	LTE Band 25	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	26140	1860	17.62	19.00	1.374	-	-	-0.06	0.536	0.736
	LTE Band 25	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	26590	1905	17.65	19.00	1.365	-	-	0.14	0.586	0.800
	LTE Band 25	20M	QPSK	1	49	-	Front	14mm	Ant 1	-	DSI 4	26340	1880	22.57	24.00	1.390	-	-	0.09	0.235	0.327
	LTE Band 25	20M	QPSK	1	49	-	Back	22mm	Ant 1	-	DSI 4	26340	1880	22.57	24.00	1.390	-	-	0.15	0.163	0.227
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	26340	1880	17.65	19.00	1.365	-	-	-0.12	0.288	0.393
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	26340	1880	17.65	19.00	1.365	-	-	0.14	0.615	0.839
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	26140	1860	17.61	19.00	1.377	-	-	0.07	0.512	0.705
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	26590	1905	17.62	19.00	1.374	-	-	-0.1	0.560	0.769
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	26340	1880	17.60	19.00	1.380	-	-	-0.13	0.587	0.810
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI 3	376500	1882.5	17.46	18.00	1.132	-	-	0.12	0.635	0.719
86	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI 3	376500	1882.5	17.46	18.00	1.132	-	-	-0.12	1.040	1.178
	FR1 n25_Other PA	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI 3	376500	1882.5	17.21	18.00	1.199	-	-	0.08	0.923	1.107
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 0	-	DSI 4	376500	1882.5	23.36	24.00	1.159	-	-	0.17	0.532	0.616
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	22mm	Ant 0	-	DSI 4	376500	1882.5	23.36	24.00	1.159	-	-	-0.09	0.306	0.355
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	DSI 3	376500	1882.5	17.42	18.00	1.143	-	-	0.06	0.606	0.693
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI 3	376500	1882.5	17.42	18.00	1.143	-	-	-0.14	0.993	1.135
	FR1 n25	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 0	-	DSI 3	376500	1882.5	17.38	18.00	1.153	-	-	-0.15	0.948	1.093
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	376500	1882.5	17.77	19.00	1.327	-	-	0.01	0.293	0.389
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	376500	1882.5	17.77	19.00	1.327	-	-	-0.14	0.589	0.782
	FR1 n25_Other PA	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	376500	1882.5	18.15	19.00	1.216	-	-	0.04	0.639	0.777
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	-	DSI 4	376500	1882.5	22.78	24.00	1.324	-	-	0.17	0.258	0.342
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	DSI 4	376500	1882.5	22.78	24.00	1.324	-	-	-0.14	0.190	0.252
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	-	DSI 3	376500	1882.5	17.69	19.00	1.352	-	-	0.01	0.280	0.379
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	-	DSI 3	376500	1882.5	17.69	19.00	1.352	-	-	-0.13	0.572	0.773
2300MHz																					
	LTE Band 30	10M	QPSK	1	25	-	Front	5mm	Ant 9	-	DSI 3	27710	2310	23.49	24.00	1.125	-	-	0.04	0.450	0.506
87	LTE Band 30	10M	QPSK	1	25	-	Back	5mm	Ant 9	-	DSI 3	27710	2310	23.49	24.00	1.125	-	-	-0.12	1.080	1.215
	LTE Band 30	10M	QPSK	1	25	-	Back	5mm	Ant 9	Headset	DSI 3	27710	2310	23.49	24.00	1.125	-	-	-0.03	1.030	1.158
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 9	-	DSI 3	27710	2310	23.41	24.00	1.146	-	-	0.19	0.430	0.493
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 9	-	DSI 3	27710	2310	23.41	24.00	1.146	-	-	0.15	1.030	1.180
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 9	-	DSI 3	27710	2310	23.39	24.00	1.151	-	-	-0.07	1.010	1.162
	LTE Band 30	10M	QPSK	1	25	-	Front	5mm	Ant 1	-	DSI 3	27710	2310	15.51	16.90	1.377	-	-	-0.19	0.192	0.264
	LTE Band 30	10M	QPSK	1	25	-	Back	5mm	Ant 1	-	DSI 3	27710	2310	15.51	16.90	1.377	-	-	-0.07	0.571	0.786
	LTE Band 30	10M	QPSK	1	25	-	Front	14mm	Ant 1	-	DSI 4	27710	2310	22.26	24.00	1.493	-	-	0.17	0.222	0.331
	LTE Band 30	10M	QPSK	1	25	-	Back	22mm	Ant 1	-	DSI 4	27710	2310	22.26	24.00	1.493	-	-	0	0.217	0.324
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	27710	2310	15.48	16.90	1.387	-	-	0.03	0.183	0.254
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	27710	2310	15.48	16.90	1.387	-	-	0.04	0.545	0.756
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 9	-	DSI 3	462000	2310	22.90	24.00	1.288	-	-	0.08	0.292	0.376
88	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 9	-	DSI 3	462000	2310	22.90	24.00	1.288	-	-	-0.01	0.820	1.056
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 9	-	DSI 3	462000	2310	22.75	24.00	1.334	-	-	-0.03	0.347	0.463
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 9	-	DSI 3	462000	2310	22.75	24.00	1.334	-	-	0.11	0.732	0.976
	FR1 n30	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 9	-	DSI 3	462000	2310	22.73	24.00	1.340	-	-	0.02	0.684	0.916
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	462000	2310	15.71	17.50	1.510	-	-	-0.04	0.181	0.273
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	462000	2310	15.71	17.50	1.510	-	-	0.15	0.523	0.790
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	-	DSI 4	462000	2310	22.18	24.00	1.521	-	-	-0.12	0.236	0.359
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	DSI 4	462000	2310	22.18	24.00	1.521	-	-	-0.15	0.226	0.344
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	-	DSI 3	462000	2310	15.67	17.50	1.524	-	-	0.18	0.175	0.267
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	-	DSI 3	462000	2310	15.67	17.50	1.524	-	-	-0.08	0.511	0.779
2600MHz																					
	LTE Band 7	20M	QPSK	1	49	-	Front	5mm	Ant 9	-	DSI 3	21100	2535	19.25	19.90	1.161	-	-	0.17	0.373	0.433



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	LTE Band 7	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	DSI 3	21100	2535	19.25	19.90	1.161	-	-	-0.07	0.869	1.009
	LTE Band 7	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	DSI 3	20850	2510	19.13	19.90	1.194	-	-	0.12	0.989	1.181
89	LTE Band 7	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	DSI 3	21350	2560	19.13	19.90	1.194	-	-	0.14	1.060	1.266
	LTE Band 7	20M	QPSK	1	49	-	Back	5mm	Ant 9	Headset	DSI 3	21350	2560	19.13	19.90	1.194	-	-	0.08	1.020	1.218
	LTE Band 7	20M	QPSK	1	49	-	Front	14mm	Ant 9	-	DSI 4	21100	2535	23.24	24.00	1.191	-	-	0.02	0.220	0.262
	LTE Band 7	20M	QPSK	1	49	-	Back	22mm	Ant 9	-	DSI 4	21350	2560	23.21	24.00	1.199	-	-	-0.02	0.263	0.315
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 9	-	DSI 3	21100	2535	19.23	19.90	1.167	-	-	0.1	0.326	0.380
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	DSI 3	21100	2535	19.23	19.90	1.167	-	-	-0.16	0.861	1.005
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	DSI 3	20850	2510	19.09	19.90	1.205	-	-	0.06	0.856	1.032
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	DSI 3	21350	2560	19.10	19.90	1.202	-	-	0.1	0.869	1.045
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 9	-	DSI 3	21100	2535	19.18	19.90	1.180	-	-	-0.12	0.833	0.983
	LTE Band 7	20M	QPSK	1	49	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	15.26	16.60	1.361	-	-	-0.12	0.095	0.129
	LTE Band 7	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	15.26	16.60	1.361	-	-	0.08	0.539	0.734
	LTE Band 7	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	15.10	16.60	1.413	-	-	-0.05	0.538	0.760
	LTE Band 7	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	15.10	16.60	1.413	-	-	0.14	0.503	0.711
	LTE Band 7	20M	QPSK	1	49	-	Front	14mm	Ant 1	-	DSI 4	21100	2535	22.65	24.00	1.365	-	-	-0.08	0.202	0.276
	LTE Band 7	20M	QPSK	1	49	-	Back	22mm	Ant 1	-	DSI 4	20850	2510	22.27	24.00	1.489	-	-	0.09	0.216	0.322
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	15.23	16.60	1.371	-	-	-0.01	0.091	0.125
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	15.23	16.60	1.371	-	-	-0.15	0.528	0.724
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	15.18	16.60	1.387	-	-	0.17	0.521	0.722
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 9	-	DSI 3	41490	2680	19.67	20.50	1.211	62.9	1.006	-0.12	0.443	0.540
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	DSI 3	41490	2680	19.67	20.50	1.211	62.9	1.006	-0.15	0.910	1.108
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	DSI 3	39750	2506	19.41	20.50	1.285	62.9	1.006	-0.1	0.772	0.998
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	DSI 3	40185	2549.5	19.46	20.50	1.271	62.9	1.006	0.15	0.866	1.107
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	DSI 3	40620	2593	19.54	20.50	1.247	62.9	1.006	0.17	0.916	1.149
90	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	DSI 3	41055	2636.5	19.13	20.50	1.371	62.9	1.006	-0.14	0.869	1.198
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 9	-	DSI 3	41055+41253	2636.5+2656.3	19.36	20.50	1.300	62.9	1.006	-0.12	0.844	1.104
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	DSI 3	41055	2636.5	20.96	22.10	1.300	42.9	1.009	-0.08	0.850	1.115
	LTE Band 41	20M	QPSK	1	49	-	Front	14mm	Ant 9	-	DSI 4	41490	2680	23.67	24.00	1.079	62.9	1.006	-0.12	0.237	0.257
	LTE Band 41	20M	QPSK	1	49	-	Back	22mm	Ant 9	-	DSI 4	41055	2636.5	23.04	24.00	1.247	62.9	1.006	-0.01	0.253	0.317
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 9	-	DSI 3	41490	2680	19.57	20.50	1.239	62.9	1.006	-0.09	0.423	0.527
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	DSI 3	41490	2680	19.57	20.50	1.239	62.9	1.006	-0.03	0.869	1.083
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	DSI 3	39750	2506	19.32	20.50	1.312	62.9	1.006	0.08	0.737	0.973
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	DSI 3	40185	2549.5	19.42	20.50	1.282	62.9	1.006	-0.01	0.827	1.067
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	DSI 3	40620	2593	19.45	20.50	1.274	62.9	1.006	0.13	0.875	1.121
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	DSI 3	41055	2636.5	19.09	20.50	1.384	62.9	1.006	0.18	0.830	1.155
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 9	-	DSI 3	41490	2680	19.63	20.50	1.222	62.9	1.006	-0.1	0.903	1.110
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	18.26	19.10	1.213	62.9	1.006	-0.19	0.287	0.350
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	18.26	19.10	1.213	62.9	1.006	0.1	0.593	0.724
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	17.84	19.10	1.337	62.9	1.006	-0.12	0.524	0.705
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	18.06	19.10	1.271	62.9	1.006	-0.08	0.657	0.840
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40185+40383	2549.5+2569.3	18.02	19.10	1.282	62.9	1.006	0.06	0.631	0.814
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	18.13	19.10	1.250	62.9	1.006	0.11	0.490	0.616
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	18.01	19.10	1.285	62.9	1.006	0.03	0.602	0.778
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	19.71	20.70	1.256	42.9	1.009	-0.04	0.641	0.812
	LTE Band 41	20M	QPSK	1	49	-	Front	14mm	Ant 1	-	DSI 4	40620	2593	23.23	24.00	1.194	62.9	1.006	-0.07	0.313	0.376
	LTE Band 41	20M	QPSK	1	49	-	Back	22mm	Ant 1	-	DSI 4	40185	2549.5	23.04	24.00	1.247	62.9	1.006	0.11	0.256	0.321
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	18.16	19.10	1.242	62.9	1.006	-0.15	0.274	0.342
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	18.16	19.10	1.242	62.9	1.006	0.01	0.566	0.707
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	17.80	19.10	1.349	62.9	1.006	-0.12	0.500	0.679
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	17.99	19.10	1.291	62.9	1.006	0.15	0.627	0.814
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	18.13	19.10	1.250	62.9	1.006	-0.17	0.468	0.589
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	18.05	19.10	1.274	62.9	1.006	-0.02	0.575	0.737
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	18.14	19.10	1.247	62.9	1.006	-0.19	0.551	0.691
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	-	DSI 3	40620	2593	23.53	24.00	1.114	62.9	1.006	-0.06	0.493	0.553
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	DSI 3	40620	2593	23.53	24.00	1.114	62.9	1.006	0.08	0.938	1.051



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	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	DSI 3	39750	2506	23.08	24.00	1.236	62.9	1.006	-0.15	0.604	0.751
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	DSI 3	40185	2549.5	23.32	24.00	1.169	62.9	1.006	-0.19	0.712	0.838
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	DSI 3	41055	2636.5	23.12	24.00	1.225	62.9	1.006	-0.19	0.734	0.904
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	DSI 3	41490	2680	23.38	24.00	1.153	62.9	1.006	0.14	0.803	0.932
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	DSI 3	41055	2636.5	25.33	27.00	1.469	42.9	1.009	-0.11	0.767	1.137
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	41055+41253	2636.5+2656.3	25.33	27.00	1.469	42.9	1.009	-0.01	0.748	1.109
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	40620	2593	23.49	24.00	1.125	62.9	1.006	-0.11	0.471	0.533
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	40620	2593	23.49	24.00	1.125	62.9	1.006	-0.11	0.896	1.014
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	39750	2506	23.18	24.00	1.208	62.9	1.006	-0.12	0.577	0.701
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	40185	2549.5	23.45	24.00	1.135	62.9	1.006	0.1	0.680	0.776
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	41055	2636.5	23.12	24.00	1.225	62.9	1.006	-0.06	0.782	0.963
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	41490	2680	23.34	24.00	1.164	62.9	1.006	-0.15	0.768	0.899
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	40620	2593	23.47	24.00	1.130	62.9	1.006	0.09	0.860	0.977
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 6	-	DSI 3	40620	2593	22.70	23.50	1.202	62.9	1.006	0.14	0.383	0.463
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 6	-	DSI 3	40620	2593	22.70	23.50	1.202	62.9	1.006	-0.09	0.463	0.560
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 6	-	DSI 3	39750	2506	22.53	23.50	1.250	62.9	1.006	-0.02	0.446	0.561
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 6	-	DSI 3	40185	2549.5	22.55	23.50	1.245	62.9	1.006	-0.14	0.451	0.565
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 6	-	DSI 3	41055	2636.5	22.64	23.50	1.219	62.9	1.006	-0.02	0.471	0.578
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 6	-	DSI 3	41055+41253	2636.5+2656.3	22.59	23.50	1.233	62.9	1.006	0.01	0.466	0.578
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 6	-	DSI 3	41490	2680	22.65	23.50	1.216	62.9	1.006	-0.14	0.413	0.505
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 6	-	DSI 3	41055	2636.5	24.12	25.10	1.253	42.9	1.009	0.11	0.457	0.578
	LTE Band 41	20M	QPSK	1	49	-	Front	14mm	Ant 6	-	DSI 4	40620	2593	23.49	24.00	1.125	62.9	1.006	-0.02	0.170	0.192
	LTE Band 41	20M	QPSK	1	49	-	Back	22mm	Ant 6	-	DSI 4	41055	2636.5	22.92	24.00	1.282	62.9	1.006	-0.17	0.075	0.097
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 6	-	DSI 3	40620	2593	22.64	23.50	1.219	62.9	1.006	-0.18	0.366	0.449
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6	-	DSI 3	40620	2593	22.64	23.50	1.219	62.9	1.006	0.17	0.442	0.542
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 9	-	DSI 3	507000	2535	19.78	20.50	1.180	-	-	0.02	0.363	0.428
91	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 9	-	DSI 3	507000	2535	19.78	20.50	1.180	-	-	-0.06	1.030	1.216
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 9	Headset	DSI 3	507000	2535	19.78	20.50	1.180	-	-	0.02	0.950	1.121
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 9	-	DSI 4	507000	2535	23.26	24.00	1.186	-	-	0.14	0.164	0.194
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	22mm	Ant 9	-	DSI 4	507000	2535	23.26	24.00	1.186	-	-	0.09	0.142	0.168
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 9	-	DSI 3	507000	2535	19.70	20.50	1.202	-	-	0.11	0.347	0.417
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 9	-	DSI 3	507000	2535	19.70	20.50	1.202	-	-	0.17	0.984	1.183
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 9	-	DSI 3	507000	2535	19.64	20.50	1.219	-	-	-0.05	0.959	1.169
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	507000	2535	16.18	17.00	1.208	-	-	-0.07	0.285	0.344
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	507000	2535	16.18	17.00	1.208	-	-	-0.04	0.691	0.835
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	-	DSI 4	507000	2535	23.23	24.00	1.194	-	-	-0.08	0.274	0.327
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	DSI 4	507000	2535	23.23	24.00	1.194	-	-	-0.17	0.305	0.364
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	-	DSI 3	507000	2535	16.16	17.00	1.213	-	-	-0.1	0.272	0.330
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	-	DSI 3	507000	2535	16.16	17.00	1.213	-	-	0.08	0.660	0.801
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 1	-	DSI 3	507000	2535	16.14	17.00	1.219	-	-	-0.09	0.643	0.784
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 9	-	DSI 3	518598	2592.99	17.97	19.00	1.268	-	-	-0.01	0.387	0.491
92	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	-	DSI 3	518598	2592.99	17.97	19.00	1.268	-	-	0.12	0.951	1.206
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	Headset	DSI 3	518598	2592.99	17.97	19.00	1.268	-	-	0.08	0.910	1.154
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 9	-	DSI 4	518598	2592.99	26.01	27.00	1.256	-	-	0.12	0.364	0.457
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 9	-	DSI 4	518598	2592.99	26.01	27.00	1.256	-	-	-0.09	0.310	0.389
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 9	-	DSI 3	518598	2592.99	17.87	19.00	1.297	-	-	0.04	0.370	0.480
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 9	-	DSI 3	518598	2592.99	17.87	19.00	1.297	-	-	0.07	0.908	1.178
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 9	-	DSI 3	518598	2592.99	17.81	19.00	1.315	-	-	0.12	0.885	1.164
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 1	-	DSI 3	518598	2592.99	14.97	16.50	1.422	-	-	0.18	0.223	0.317
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	-	DSI 3	518598	2592.99	14.97	16.50	1.422	-	-	0.1	0.584	0.831
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 1	-	DSI 4	518598	2592.99	25.48	27.00	1.419	-	-	-0.11	0.431	0.612
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 1	-	DSI 4	518598	2592.99	25.48	27.00	1.419	-	-	0.03	0.426	0.605
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 1	-	DSI 3	518598	2592.99	14.92	16.50	1.439	-	-	-0.12	0.213	0.306
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 1	-	DSI 3	518598	2592.99	14.92	16.50	1.439	-	-	0.1	0.558	0.803
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 1	-	DSI 3	518598	2592.99	14.89	16.50	1.449	-	-	0.05	0.544	0.788



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	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	-	DSI 3	518598	2592.99	21.59	23.00	1.384	-	-	0.16	0.363	0.502
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	21.59	23.00	1.384	-	-	0.08	0.810	1.121
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	-	DSI 3	518598	2592.99	21.62	23.00	1.374	-	-	-0.19	0.347	0.477
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	21.62	23.00	1.374	-	-	-0.04	0.774	1.064
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	21.61	23.00	1.377	-	-	0.13	0.755	1.040
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 6	-	DSI 3	518598	2592.99	17.82	19.00	1.312	-	-	0.13	0.222	0.291
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 6	-	DSI 3	518598	2592.99	17.82	19.00	1.312	-	-	-0.09	0.418	0.548
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 6	-	DSI 4	518598	2592.99	24.36	25.50	1.300	-	-	-0.15	0.093	0.121
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 6	-	DSI 4	518598	2592.99	24.36	25.50	1.300	-	-	0.12	0.060	0.078
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 6	-	DSI 3	518598	2592.99	17.80	19.00	1.318	-	-	0	0.213	0.281
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 6	-	DSI 3	518598	2592.99	17.80	19.00	1.318	-	-	-0.15	0.383	0.505
	FR1 n41 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	-	DSI 3	518598	2592.99	22.27	23.50	1.327	-	-	-0.19	0.028	0.037
	FR1 n41 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3	518598	2592.99	22.27	23.50	1.327	-	-	0	0.479	0.636
	FR1 n41 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3	518598	2592.99	22.42	23.50	1.282	-	-	0.06	0.433	0.555
	FR1 n41 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 10	-	DSI 4	518598	2592.99	24.78	26.00	1.324	-	-	-0.14	0.000	0.000
	FR1 n41 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 10	-	DSI 4	518598	2592.99	24.78	26.00	1.324	-	-	0.11	0.042	0.056
	FR1 n41 HPUE_Other PA	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	-	DSI 3	518598	2592.99	22.22	23.50	1.343	-	-	0.04	0.027	0.036
	FR1 n41 HPUE_Other PA	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	-	DSI 3	518598	2592.99	22.22	23.50	1.343	-	-	0.01	0.458	0.615
	FR1 n41 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	-	DSI 3	518598	2592.99	22.17	23.50	1.358	-	-	0.01	0.447	0.607
3000MHz-4000MHz																					
	LTE Band 48	20M	QPSK	1	49		Front	5mm	Ant 4	-	DSI 3	56640	3690	17.35	18.20	1.216	62.9	1.006	-0.04	0.205	0.251
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 4	-	DSI 3	56640	3690	17.35	18.20	1.216	62.9	1.006	0	0.656	0.803
93	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 4	-	DSI 3	55340	3560	17.24	18.20	1.247	62.9	1.006	-0.01	0.698	0.876
	LTE Band 48C	20M	QPSK	1	0		Back	5mm	Ant 4	-	DSI 3	55340+ 55538	3560+ 3579.8	17.51	18.20	1.172	62.9	1.006	0.06	0.701	0.827
	LTE Band 48_Other PA	20M	QPSK	1	49		Back	5mm	Ant 4	-	DSI 3	55340	3560	17.24	18.20	1.247	62.9	1.006	-0.03	0.497	0.624
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 4	-	DSI 3	55830	3609	17.27	18.20	1.239	62.9	1.006	-0.09	0.631	0.786
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 4	-	DSI 3	56150	3641	17.27	18.20	1.239	62.9	1.006	0.05	0.653	0.814
	LTE Band 48	20M	QPSK	1	49		Front	14mm	Ant 4	-	DSI 4	56640	3690	23.58	24.00	1.102	62.9	1.006	-0.07	0.161	0.178
	LTE Band 48	20M	QPSK	1	49		Back	22mm	Ant 4	-	DSI 4	55340	3560	23.28	24.00	1.180	62.9	1.006	0.19	0.308	0.366
	LTE Band 48	20M	QPSK	50	0		Front	5mm	Ant 4	-	DSI 3	56640	3690	17.30	18.20	1.230	62.9	1.006	-0.12	0.196	0.243
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 4	-	DSI 3	56640	3690	17.30	18.20	1.230	62.9	1.006	-0.05	0.626	0.775
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 4	-	DSI 3	55340	3560	17.20	18.20	1.259	62.9	1.006	0.09	0.667	0.845
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 4	-	DSI 3	55830	3609	17.25	18.20	1.245	62.9	1.006	0.18	0.603	0.755
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 4	-	DSI 3	56150	3641	17.24	18.20	1.247	62.9	1.006	0.12	0.624	0.783
	LTE Band 48	20M	QPSK	100	0		Back	5mm	Ant 4	-	DSI 3	56640	3690	17.23	18.20	1.250	62.9	1.006	-0.17	0.610	0.767
	LTE Band 48	20M	QPSK	1	49		Front	5mm	Ant 7	-	DSI 3	55340	3560	16.63	17.70	1.279	62.9	1.006	0.08	0.110	0.142
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 7	-	DSI 3	55340	3560	16.63	17.70	1.279	62.9	1.006	0.05	0.532	0.685
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 7	-	DSI 3	55830	3609	16.47	17.70	1.327	62.9	1.006	-0.17	0.465	0.621
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 7	-	DSI 3	56150	3641	16.52	17.70	1.312	62.9	1.006	-0.19	0.573	0.756
	LTE Band 48C	20M	QPSK	1	0		Back	5mm	Ant 7	-	DSI 3	56150+ 56348	3641+ 3660.8	16.98	17.70	1.180	62.9	1.006	0.04	0.607	0.721
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 7	-	DSI 3	56640	3690	16.55	17.70	1.303	62.9	1.006	-0.13	0.514	0.674
	LTE Band 48	20M	QPSK	1	49		Front	14mm	Ant 7	-	DSI 4	55340	3560	22.92	24.00	1.282	62.9	1.006	-0.14	0.011	0.014
	LTE Band 48	20M	QPSK	1	49		Back	22mm	Ant 7	-	DSI 4	56150	3641	22.44	24.00	1.432	62.9	1.006	-0.08	0.320	0.461
	LTE Band 48	20M	QPSK	50	0		Front	5mm	Ant 7	-	DSI 3	55340	3560	16.59	17.70	1.291	62.9	1.006	0.19	0.105	0.136
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 7	-	DSI 3	55340	3560	16.59	17.70	1.291	62.9	1.006	0.01	0.508	0.660
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 7	-	DSI 3	55830	3609	16.45	17.70	1.334	62.9	1.006	0.16	0.444	0.596
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 7	-	DSI 3	56150	3641	16.48	17.70	1.324	62.9	1.006	-0.06	0.547	0.729
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 7	-	DSI 3	56640	3690	16.54	17.70	1.306	62.9	1.006	0.14	0.491	0.645
	LTE Band 48	20M	QPSK	100	0		Back	5mm	Ant 7	-	DSI 3	55340	3560	16.57	17.70	1.297	62.9	1.006	0.04	0.495	0.646
	LTE Band 48	20M	QPSK	1	49		Front	5mm	Ant 10	-	DSI 3	55830	3609	18.45	19.20	1.189	62.9	1.006	-0.04	0.102	0.122
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 10	-	DSI 3	55830	3609	18.45	19.20	1.189	62.9	1.006	0.19	0.484	0.579
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 10	-	DSI 3	55340	3560	18.32	19.20	1.225	62.9	1.006	-0.19	0.496	0.611
	LTE Band 48C	20M	QPSK	1	0		Back	5mm	Ant 10	-	DSI 3	55340+ 55538	3560+ 3579.8	18.64	19.20	1.138	62.9	1.006	0.03	0.513	0.587
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 10	-	DSI 3	56150	3641	18.42	19.20	1.197	62.9	1.006	0.11	0.442	0.532
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 10	-	DSI 3	56640	3690	18.41	19.20	1.199	62.9	1.006	-0.06	0.460	0.555



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	LTE Band 48	20M	QPSK	1	49		Front	14mm	Ant 10	-	DSI 4	55830	3609	22.90	24.00	1.288	62.9	1.006	-0.08	0.006	0.008
	LTE Band 48	20M	QPSK	1	49		Back	22mm	Ant 10	-	DSI 4	55340	3560	22.85	24.00	1.303	62.9	1.006	-0.02	0.088	0.115
	LTE Band 48	20M	QPSK	50	0		Front	5mm	Ant 10	-	DSI 3	55830	3609	18.41	19.20	1.199	62.9	1.006	-0.18	0.099	0.119
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 10	-	DSI 3	55830	3609	18.41	19.20	1.199	62.9	1.006	-0.09	0.472	0.570
	LTE Band 48	20M	QPSK	100	0		Back	5mm	Ant 10	-	DSI 3	55830	3609	18.40	19.20	1.202	62.9	1.006	-0.08	0.460	0.556
	LTE Band 48	20M	QPSK	1	49		Front	5mm	Ant 8	-	DSI 3	55340	3560	17.40	17.70	1.072	62.9	1.006	0.17	0.160	0.172
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 8	-	DSI 3	55340	3560	17.40	17.70	1.072	62.9	1.006	0.06	0.575	0.620
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 8	-	DSI 3	55830	3609	17.30	17.70	1.096	62.9	1.006	0.17	0.577	0.636
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 8	-	DSI 3	56150	3641	17.34	17.70	1.086	62.9	1.006	0.19	0.633	0.692
	LTE Band 48	20M	QPSK	1	49		Back	5mm	Ant 8	-	DSI 3	56640	3690	17.24	17.70	1.112	62.9	1.006	0.07	0.688	0.769
	LTE Band 48C	20M	QPSK	1	0		Back	5mm	Ant 8		DSI 3	56640+ 56442	3690+ 3670.2	16.74	17.70	1.247	62.9	1.006	-0.04	0.589	0.739
	LTE Band 48_Other PA	20M	QPSK	1	49		Back	5mm	Ant 8		DSI 3	56640	3690	17.24	17.70	1.112	62.9	1.006	-0.06	0.514	0.575
	LTE Band 48	20M	QPSK	1	49		Front	14mm	Ant 8	-	DSI 4	55340	3560	23.45	24.00	1.135	62.9	1.006	0.11	0.216	0.247
	LTE Band 48	20M	QPSK	1	49		Back	22mm	Ant 8	-	DSI 4	56640	3690	23.06	24.00	1.242	62.9	1.006	0.08	0.701	0.876
	LTE Band 48	20M	QPSK	50	0		Front	5mm	Ant 8	-	DSI 3	55340	3560	17.33	17.70	1.089	62.9	1.006	-0.05	0.153	0.168
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 8	-	DSI 3	55340	3560	17.33	17.70	1.089	62.9	1.006	-0.05	0.549	0.601
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 8	-	DSI 3	55830	3609	17.29	17.70	1.099	62.9	1.006	0.05	0.551	0.609
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 8	-	DSI 3	56150	3641	17.26	17.70	1.107	62.9	1.006	0.07	0.605	0.674
	LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 8	-	DSI 3	56640	3690	17.10	17.70	1.148	62.9	1.006	-0.16	0.657	0.759
	LTE Band 48	20M	QPSK	100	0		Back	5mm	Ant 8	-	DSI 3	55340	3560	17.30	17.70	1.096	62.9	1.006	-0.14	0.524	0.578
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	-	DSI 3	641666	3624.99	14.76	15.50	1.186	-	-	-0.03	0.173	0.205
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3	641666	3624.99	14.76	15.50	1.186	-	-	0.13	0.661	0.784
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3	638000	3570	14.74	15.50	1.191	-	-	0.18	0.701	0.835
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3	645332	3679.98	14.70	15.50	1.202	-	-	-0.17	0.675	0.812
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	14mm	Ant 4	-	DSI 4	641666	3624.99	23.25	24.00	1.189	-	-	0.11	0.315	0.374
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	22mm	Ant 4	-	DSI 4	638000	3570	23.19	24.00	1.205	-	-	-0.16	0.423	0.510
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 4	-	DSI 3	641666	3624.99	14.75	15.50	1.189	-	-	-0.02	0.165	0.196
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	-	DSI 3	641666	3624.99	14.75	15.50	1.189	-	-	-0.15	0.631	0.750
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	-	DSI 3	638000	3570	14.70	15.50	1.202	-	-	0.03	0.669	0.804
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	-	DSI 3	645332	3679.98	14.67	15.50	1.211	-	-	0.19	0.645	0.781
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 4	-	DSI 3	641666	3624.99	14.72	15.50	1.197	-	-	0.07	0.617	0.738
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	-	DSI 3	638000	3570	14.76	16.00	1.330	-	-	-	n/a	n/a
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	DSI 3	638000	3570	14.76	16.00	1.330	-	-	0.1	0.616	0.820
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	DSI 3	641666	3624.99	14.60	16.00	1.380	-	-	0.19	0.575	0.794
94	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	DSI 3	645332	3679.98	14.45	16.00	1.429	-	-	-0.03	0.597	0.853
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	14mm	Ant 7	-	DSI 4	638000	3570	22.73	24.00	1.340	-	-	0	0.013	0.017
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	22mm	Ant 7	-	DSI 4	645332	3679.98	22.34	24.00	1.466	-	-	0.05	0.154	0.226
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 7	-	DSI 3	638000	3570	14.74	16.00	1.337	-	-	-	n/a	n/a
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 7	-	DSI 3	638000	3570	14.74	16.00	1.337	-	-	0.08	0.588	0.786
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 7	-	DSI 3	641666	3624.99	14.57	16.00	1.390	-	-	0.02	0.549	0.763
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 7	-	DSI 3	645332	3679.98	14.36	16.00	1.459	-	-	0.07	0.570	0.832
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 7	-	DSI 3	638000	3570	14.67	16.00	1.358	-	-	-0.06	0.571	0.776
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	-	DSI 3	641666	3624.99	10.63	11.50	1.222	-	-	0.08	0.000	0.000
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3	641666	3624.99	10.63	11.50	1.222	-	-	-0.07	0.463	0.566
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3	638000	3570	10.59	11.50	1.233	-	-	-0.17	0.484	0.597
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3	645332	3679.98	10.57	11.50	1.239	-	-	0.12	0.447	0.554
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	14mm	Ant 10	-	DSI 4	641666	3624.99	23.10	24.00	1.230	-	-	0.14	0.008	0.010
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	22mm	Ant 10	-	DSI 4	638000	3570	23.08	24.00	1.236	-	-	0.1	0.245	0.303
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 10	-	DSI 3	641666	3624.99	10.61	11.50	1.227	-	-	-0.1	0.000	0.000
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 10	-	DSI 3	641666	3624.99	10.61	11.50	1.227	-	-	0.06	0.442	0.543
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 10	-	DSI 3	641666	3624.99	10.63	11.50	1.222	-	-	0.08	0.431	0.527
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	DSI 3	641666	3624.99	14.73	16.00	1.340	-	-	0.17	0.126	0.169
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI 3	641666	3624.99	14.73	16.00	1.340	-	-	0.08	0.547	0.733
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI 3	638000	3570	14.68	16.00	1.355	-	-	-0.06	0.554	0.751
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI 3	645332	3679.98	14.51	16.00	1.409	-	-	-0.06	0.558	0.786
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	14mm	Ant 8	-	DSI 4	641666	3624.99	22.72	24.00	1.343	-	-	0.13	0.179	0.240



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	FR1 n48	40M	QPSK	1	1	DFT-30	Back	22mm	Ant 8	-	DSI 4	645332	3679.98	22.39	24.00	1.449	-	-	0.19	0.374	0.542
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 8	-	DSI 3	641666	3624.99	14.72	16.00	1.343	-	-	0.01	0.120	0.161
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	-	DSI 3	641666	3624.99	14.72	16.00	1.343	-	-	0.18	0.522	0.701
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	-	DSI 3	638000	3570	14.67	16.00	1.358	-	-	0.19	0.529	0.719
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	-	DSI 3	645332	3679.98	14.40	16.00	1.445	-	-	-0.13	0.533	0.770
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 8	-	DSI 3	641666	3624.99	14.68	16.00	1.355	-	-	0.15	0.509	0.690
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	-	DSI 3	633332	3499.98	16.74	17.50	1.191	-	-	-0.06	0.216	0.257
95	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3	633332	3499.98	16.74	17.50	1.191	-	-	0.07	0.718	0.855
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3	633332	3499.98	16.16	17.50	1.361	-	-	0	0.598	0.814
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 4	-	DSI 4	633332	3499.98	26.20	27.00	1.202	-	-	-0.02	0.405	0.487
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 4	-	DSI 4	633332	3499.98	26.20	27.00	1.202	-	-	0.09	0.491	0.590
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	-	DSI 3	633332	3499.98	16.73	17.50	1.194	-	-	-0.03	0.206	0.246
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	-	DSI 3	633332	3499.98	16.73	17.50	1.194	-	-	-0.02	0.686	0.819
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	-	DSI 3	633332	3499.98	16.72	17.50	1.197	-	-	-0.14	0.669	0.801
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	-	DSI 3	656000	3840	16.87	17.50	1.156	-	-	-0.05	0.210	0.243
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3	656000	3840	16.87	17.50	1.156	-	-	0.02	0.576	0.666
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	-	DSI 3	656000	3840	16.85	17.50	1.161	-	-	0.16	0.158	0.184
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	-	DSI 3	656000	3840	16.85	17.50	1.161	-	-	-0.08	0.523	0.607
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	-	DSI 3	656000	3840	16.81	17.50	1.172	-	-	-0.05	0.510	0.598
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	-	DSI 3	633332	3499.98	16.05	17.00	1.245	-	-	0.15	0.000	0.000
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	DSI 3	633332	3499.98	16.05	17.00	1.245	-	-	0.13	0.337	0.419
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7	-	DSI 3	633332	3499.98	16.03	17.00	1.250	-	-	-0.05	0.000	0.000
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	-	DSI 3	633332	3499.98	16.03	17.00	1.250	-	-	0.14	0.322	0.403
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	-	DSI 3	656000	3840	16.04	17.00	1.247	-	-	-0.08	0.036	0.045
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	DSI 3	656000	3840	16.04	17.00	1.247	-	-	-0.15	0.676	0.843
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	DSI 3	656000	3840	16.25	17.00	1.189	-	-	-0.15	0.692	0.822
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 7	-	DSI 4	656000	3840	23.09	24.00	1.233	-	-	-0.17	0.011	0.014
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 7	-	DSI 4	656000	3840	23.09	24.00	1.233	-	-	0.13	0.504	0.621
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7	-	DSI 3	656000	3840	16.02	17.00	1.253	-	-	-0.14	0.034	0.043
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	-	DSI 3	656000	3840	16.02	17.00	1.253	-	-	-0.02	0.646	0.810
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 7	-	DSI 3	656000	3840	16.00	17.00	1.259	-	-	0.09	0.630	0.793
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	-	DSI 3	633332	3499.98	11.70	12.50	1.202	-	-	0.15	0.000	0.000
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3	633332	3499.98	11.70	12.50	1.202	-	-	0.01	0.401	0.482
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	-	DSI 3	633332	3499.98	11.69	12.50	1.205	-	-	-0.02	0.000	0.000
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	-	DSI 3	633332	3499.98	11.69	12.50	1.205	-	-	0.16	0.364	0.439
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	-	DSI 3	656000	3840	11.35	12.50	1.303	-	-	0.12	0.044	0.057
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3	656000	3840	11.35	12.50	1.303	-	-	0.17	0.473	0.616
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3	656000	3840	10.93	12.50	1.435	-	-	-0.18	0.417	0.599
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 10	-	DSI 4	656000	3840	25.88	27.00	1.294	-	-	-0.05	0.009	0.012
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 10	-	DSI 4	656000	3840	25.88	27.00	1.294	-	-	0.08	0.400	0.518
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	-	DSI 3	656000	3840	11.30	12.50	1.318	-	-	0.03	0.042	0.055
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	-	DSI 3	656000	3840	11.30	12.50	1.318	-	-	-0.1	0.452	0.596
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 10	-	DSI 3	656000	3840	11.28	12.50	1.324	-	-	-0.16	0.441	0.584
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	DSI 3	633332	3499.98	13.96	15.00	1.271	-	-	0.02	0.076	0.097
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI 3	633332	3499.98	13.96	15.00	1.271	-	-	-0.04	0.273	0.347
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	-	DSI 3	633332	3499.98	13.95	15.00	1.274	-	-	-0.01	0.074	0.094
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI 3	633332	3499.98	13.95	15.00	1.274	-	-	-0.16	0.264	0.336
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	DSI 3	656000	3840	13.50	15.00	1.413	-	-	-0.1	0.152	0.215
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI 3	656000	3840	13.50	15.00	1.413	-	-	0.1	0.545	0.770
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI 3	656000	3840	13.84	15.00	1.306	-	-	-0.09	0.558	0.729
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 8	-	DSI 4	656000	3840	22.45	24.00	1.429	-	-	-0.12	0.149	0.213
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 8	-	DSI 4	656000	3840	22.45	24.00	1.429	-	-	0.16	0.532	0.760
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	-	DSI 3	656000	3840	13.47	15.00	1.422	-	-	0.14	0.147	0.209
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI 3	656000	3840	13.47	15.00	1.422	-	-	0.05	0.526	0.748
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	-	DSI 3	656000	3840	13.43	15.00	1.435	-	-	-0.17	0.508	0.729



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																
	Bluetooth	DH5 1Mbps	Front	5mm	Ant 3	level9	39	2441	11.90	12.50	1.148	77.17	1.296	-0.19	0.076	0.113
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	level9	39	2441	11.90	12.50	1.148	77.17	1.296	-0.09	0.078	0.116
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	level9	0	2402	11.30	12.50	1.318	77.17	1.296	0.13	0.112	0.191
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	level9	78	2480	9.50	11.00	1.413	77.17	1.296	0.1	0.058	0.106
	Bluetooth	DH5 1Mbps	Front	14mm	Ant 3	level10	39	2441	17.90	18.50	1.148	77.17	1.296	0.15	0.061	0.091
	Bluetooth	DH5 1Mbps	Back	22mm	Ant 3	level10	0	2402	17.00	18.50	1.413	77.17	1.296	-0.09	0.080	0.146
	Bluetooth	DH5 1Mbps	Front	5mm	Ant 5	level9	39	2441	14.00	14.50	1.122	76.78	1.302	-0.08	0.087	0.127
97	Bluetooth	DH5 1Mbps	Back	5mm	Ant 5	level9	39	2441	14.00	14.50	1.122	76.78	1.302	0.19	0.202	0.295
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 5	level9	0	2402	13.00	14.50	1.413	76.78	1.302	0.01	0.155	0.285
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 5	level9	78	2480	11.80	13.00	1.318	76.78	1.302	-0.13	0.111	0.191
	Bluetooth	DH5 1Mbps	Front	14mm	Ant 5	level10	39	2441	18.10	18.50	1.096	76.78	1.302	0.11	0.056	0.080
	Bluetooth	DH5 1Mbps	Back	22mm	Ant 5	level10	39	2441	18.10	18.50	1.096	76.78	1.302	0.12	0.163	0.233
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+5(5)	Standalone	6	2437	16.15	18.00	1.531	100	1.000	0.15	0.331	0.507
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+5(5)	Standalone	6	2437	16.15	18.00	1.531	100	1.000	-0.18	0.558	0.854
98	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+5(5)	Standalone	1	2412	16.13	18.00	1.538	100	1.000	0.12	0.775	1.192
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+5(5)	Standalone	11	2462	16.05	18.00	1.567	100	1.000	-0.19	0.560	0.877
	WLAN2.4GHz	802.11b 1Mbps	Front	14mm	Ant 3+5(5)	Standalone	6	2437	20.00	22.00	1.585	100	1.000	0.18	0.189	0.300
	WLAN2.4GHz	802.11b 1Mbps	Back	22mm	Ant 3+5(5)	Standalone	1	2412	20.00	22.00	1.585	100	1.000	-0.19	0.189	0.300
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+5(5)	Simultaneous	6	2437	14.23	16.00	1.503	100	1.000	-0.03	0.209	0.314
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+5(5)	Simultaneous	6	2437	14.23	16.00	1.503	100	1.000	0.17	0.352	0.529
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+5(5)	Simultaneous	1	2412	14.16	16.00	1.528	100	1.000	0.08	0.454	0.694
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+5(5)	Simultaneous	11	2462	14.11	16.00	1.545	100	1.000	-0.03	0.353	0.545
5000MHz																
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 7+5(7)	Standalone	50	5250	13.14	15.00	1.535	100	1.000	-0.14	0.069	0.106
99	WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 7+5(7)	Standalone	50	5250	13.14	15.00	1.535	100	1.000	0.07	0.717	1.100
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	14mm	Ant 7+5(7)	Standalone	58	5290	17.60	19.50	1.549	100	1.000	-0.16	0.060	0.093
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	22mm	Ant 7+5(7)	Standalone	58	5290	17.60	19.50	1.549	100	1.000	0.04	0.223	0.345
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 7+5(7)	Simultaneous	50	5250	9.11	10.50	1.377	100	1.000	0.13	0.027	0.037
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 7+5(7)	Simultaneous	50	5250	9.11	10.50	1.377	100	1.000	0.14	0.252	0.347
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 7+5(5)	Standalone	106	5530	12.64	14.50	1.535	100	1.000	-0.11	0.114	0.175
100	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7+5(5)	Standalone	106	5530	12.64	14.50	1.535	100	1.000	0.02	0.731	1.122
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	14mm	Ant 7+5(5)	Standalone	106	5530	17.75	19.50	1.496	100	1.000	-0.13	0.007	0.010
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	22mm	Ant 7+5(5)	Standalone	106	5530	17.75	19.50	1.496	100	1.000	0.15	0.242	0.362
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 7+5(5)	Simultaneous	106	5530	8.14	10.00	1.535	100	1.000	-0.17	0.040	0.061
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7+5(5)	Simultaneous	106	5530	8.14	10.00	1.535	100	1.000	0.02	0.228	0.350
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 7+5(5)	Standalone	155	5775	13.78	15.50	1.486	100	1.000	-0.12	0.213	0.317
101	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7+5(5)	Standalone	155	5775	13.78	15.50	1.486	100	1.000	0.13	0.803	1.193
	WLAN5.8GHz	802.11a 6Mbps	Front	14mm	Ant 7+5(5)	Standalone	149	5745	18.57	20.00	1.390	98.97	1.010	0.13	0.118	0.166
	WLAN5.8GHz	802.11a 6Mbps	Back	22mm	Ant 7+5(5)	Standalone	149	5745	18.57	20.00	1.390	98.97	1.010	-0.06	0.248	0.348
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 7+5(5)	Simultaneous	155	5775	9.51	11.00	1.409	100	1.000	0.03	0.076	0.107
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7+5(5)	Simultaneous	155	5775	9.51	11.00	1.409	100	1.000	-0.08	0.277	0.390



16.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
835MHz																				
124	LTE Band 26	15M	QPSK	1	37	-	Back	0mm	Ant 0	DSI 6	26865	831.5	22.66	24.00	1.361	-	-	-0.08	1.150	1.566
	LTE Band 5B	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	20575+20476	841.5+831.6	22.54	24.00	1.400	-	-	0.12	1.080	1.512
	LTE Band 26	15M	QPSK	1	37	-	Back	0mm	Ant 0	DSI 6	26765	821.5	22.47	24.00	1.422	-	-	0.14	1.030	1.465
	LTE Band 26	15M	QPSK	1	37	-	Back	0mm	Ant 0	DSI 6	26965	841.5	22.62	24.00	1.374	-	-	-0.18	1.110	1.525
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 0	DSI 6	26865	831.5	22.61	24.00	1.377	-	-	0.15	1.040	1.432
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1413	1732.6	20.32	21.20	1.225	-	-	0.12	1.760	2.155
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1312	1712.4	20.14	21.20	1.276	-	-	-0.05	1.470	1.876
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1513	1752.6	20.26	21.20	1.242	-	-	0.19	1.820	2.260
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1413	1732.6	20.32	21.20	1.225	-	-	0	1.930	2.364
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1312	1712.4	20.14	21.20	1.276	-	-	0.02	1.810	2.310
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1513	1752.6	20.26	21.20	1.242	-	-	0.15	1.980	2.458
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom side	0mm	Ant 0	DSI 6	1413	1732.6	20.32	21.20	1.225	-	-	-0.14	2.050	2.510
102	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom side	0mm	Ant 0	DSI 6	1312	1712.4	20.14	21.20	1.276	-	-	-0.08	2.140	2.732
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom side	0mm	Ant 0	DSI 6	1513	1752.6	20.26	21.20	1.242	-	-	0.14	2.040	2.533
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 4	1513	1752.6	22.70	24.00	1.349	-	-	0.1	1.480	1.996
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 4	1513	1752.6	22.70	24.00	1.349	-	-	0.1	0.912	1.230
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom side	12mm	Ant 0	DSI 4	1312	1712.4	22.54	24.00	1.400	-	-	-0.11	0.865	1.211
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1413	1732.6	20.71	21.90	1.315	-	-	-0.08	0.795	1.046
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1413	1732.6	20.71	21.90	1.315	-	-	-0.09	1.300	1.710
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top side	0mm	Ant 1	DSI 6	1413	1732.6	20.71	21.90	1.315	-	-	-0.04	1.510	1.986
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top side	0mm	Ant 1	DSI 6	1312	1712.4	20.58	21.90	1.355	-	-	0.09	1.330	1.802
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top side	0mm	Ant 1	DSI 6	1513	1752.6	20.66	21.90	1.330	-	-	-0.09	1.370	1.823
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	4mm	Ant 1	DSI 4	1413	1732.6	22.63	24.00	1.371	-	-	0.03	0.767	1.051
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	12mm	Ant 1	DSI 4	1413	1732.6	22.63	24.00	1.371	-	-	-0.02	0.436	0.598
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top side	8mm	Ant 1	DSI 4	1413	1732.6	22.63	24.00	1.371	-	-	0.04	0.724	0.993
	LTE Band 66	20M	QPSK	1	49	-	Front	0mm	Ant 0	DSI 6	132322	1745	21.28	21.90	1.153	-	-	0.18	2.260	2.607
	LTE Band 66	20M	QPSK	1	49	-	Front	0mm	Ant 0	DSI 6	132072	1720	21.19	21.90	1.178	-	-	-0.08	1.980	2.332
	LTE Band 66	20M	QPSK	1	49	-	Front	0mm	Ant 0	DSI 6	132572	1770	21.19	21.90	1.178	-	-	-0.09	2.220	2.614
103	LTE Band 66	20M	QPSK	1	49	-	Back	0mm	Ant 0	DSI 6	132322	1745	21.28	21.90	1.153	-	-	-0.04	2.360	2.722
	LTE Band 66C	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132322+132520	1745+1764.8	21.25	21.90	1.161	-	-	0.12	2.280	2.648
	LTE Band 66_Other PA	20M	QPSK	1	49	-	Back	0mm	Ant 0	DSI 6	132322	1745	21.11	21.90	1.199	-	-	0.09	2.260	2.711
	LTE Band 66	20M	QPSK	1	49	-	Back	0mm	Ant 0	DSI 6	132072	1720	21.19	21.90	1.178	-	-	-0.09	2.000	2.355
	LTE Band 66	20M	QPSK	1	49	-	Back	0mm	Ant 0	DSI 6	132572	1770	21.19	21.90	1.178	-	-	-0.01	2.240	2.638
	LTE Band 66	20M	QPSK	1	49	-	Bottom side	0mm	Ant 0	DSI 6	132322	1745	21.28	21.90	1.153	-	-	0.18	1.990	2.295
	LTE Band 66	20M	QPSK	1	49	-	Bottom side	0mm	Ant 0	DSI 6	132072	1720	21.19	21.90	1.178	-	-	0.11	1.820	2.143
	LTE Band 66	20M	QPSK	1	49	-	Bottom side	0mm	Ant 0	DSI 6	132572	1770	21.19	21.90	1.178	-	-	0.01	1.640	1.931
	LTE Band 66	20M	QPSK	1	49	-	Front	5mm	Ant 0	DSI 4	132572	1770	22.86	24.00	1.300	-	-	0.05	1.410	1.833
	LTE Band 66	20M	QPSK	1	49	-	Back	10mm	Ant 0	DSI 4	132322	1745	22.89	24.00	1.291	-	-	0.02	0.840	1.085
	LTE Band 66	20M	QPSK	1	49	-	Bottom side	12mm	Ant 0	DSI 4	132322	1745	22.89	24.00	1.291	-	-	-0.06	0.930	1.201
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	21.25	21.90	1.161	-	-	-0.08	2.160	2.509
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132072	1720	21.18	21.90	1.180	-	-	-0.02	1.890	2.231
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132572	1770	21.11	21.90	1.199	-	-	-0.14	2.120	2.543
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	21.25	21.90	1.161	-	-	0.01	2.270	2.636
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132072	1720	21.18	21.90	1.180	-	-	0.12	1.910	2.254
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132572	1770	21.11	21.90	1.199	-	-	-0.05	2.240	2.687
	LTE Band 66	20M	QPSK	50	0	-	Bottom side	0mm	Ant 0	DSI 6	132322	1745	21.25	21.90	1.161	-	-	0.19	1.750	2.033



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	LTE Band 66	20M	QPSK	50	0	-	Bottom side	0mm	Ant 0	DSI 6	132072	1720	21.18	21.90	1.180	-	-	0	1.740	2.054
	LTE Band 66	20M	QPSK	50	0	-	Bottom side	0mm	Ant 0	DSI 6	132572	1770	21.11	21.90	1.199	-	-	0.02	1.570	1.883
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	21.23	21.90	1.167	-	-	-0.14	2.110	2.462
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	21.23	21.90	1.167	-	-	-0.08	2.220	2.590
	LTE Band 66	20M	QPSK	100	0	-	Bottom side	0mm	Ant 0	DSI 6	132322	1745	21.23	21.90	1.167	-	-	0.14	1.550	1.809
	LTE Band 66	20M	QPSK	1	49	-	Front	0mm	Ant 1	DSI 6	132322	1745	21.35	22.60	1.334	-	-	0.18	0.941	1.255
	LTE Band 66	20M	QPSK	1	49	-	Back	0mm	Ant 1	DSI 6	132322	1745	21.35	22.60	1.334	-	-	0.11	1.330	1.774
	LTE Band 66	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	132322	1745	21.35	22.60	1.334	-	-	0.11	1.420	1.894
	LTE Band 66C	20M	QPSK	1	0	-	Top side	0mm	Ant 1	DSI 6	132322+ 132520	1745+ 1764.8	21.30	22.60	1.349	-	-	0.12	1.330	1.794
	LTE Band 66_Other PA	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	132322	1745	21.61	22.60	1.256	-	-	-0.09	1.400	1.758
	LTE Band 66	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	132072	1720	21.25	22.60	1.365	-	-	-0.08	1.380	1.883
	LTE Band 66	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	132572	1770	21.34	22.60	1.337	-	-	-0.02	1.340	1.791
	LTE Band 66	20M	QPSK	1	49	-	Front	4mm	Ant 1	DSI 4	132322	1745	22.87	24.00	1.297	-	-	-0.01	0.625	0.811
	LTE Band 66	20M	QPSK	1	49	-	Back	12mm	Ant 1	DSI 4	132322	1745	22.87	24.00	1.297	-	-	0.11	0.369	0.479
	LTE Band 66	20M	QPSK	1	49	-	Top side	8mm	Ant 1	DSI 4	132322	1745	22.87	24.00	1.297	-	-	0.05	0.639	0.829
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	21.30	22.60	1.349	-	-	0.01	0.899	1.213
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	21.30	22.60	1.349	-	-	0.12	1.270	1.713
	LTE Band 66	20M	QPSK	50	0	-	Top side	0mm	Ant 1	DSI 6	132322	1745	21.30	22.60	1.349	-	-	-0.05	1.360	1.835
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI 6	340500	1702.5	20.95	22.00	1.274	-	-	0.00	0.923	1.175
104	FR1 n70	15M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	340500	1702.5	20.95	22.00	1.274	-	-	-0.09	2.090	2.662
	FR1 n70	15M	QPSK	1	1	DFT-15	Bottom side	0mm	Ant 0	DSI 6	340500	1702.5	20.95	22.00	1.274	-	-	-0.04	1.690	2.152
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI 4	340500	1702.5	22.97	24.00	1.268	-	-	0.01	0.911	1.155
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	340500	1702.5	22.97	24.00	1.268	-	-	0.14	0.488	0.619
	FR1 n70	15M	QPSK	1	1	DFT-15	Bottom side	12mm	Ant 0	DSI 4	340500	1702.5	22.97	24.00	1.268	-	-	-0.18	0.482	0.611
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	0mm	Ant 0	DSI 6	340500	1702.5	20.93	22.00	1.279	-	-	0.02	0.905	1.158
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	0mm	Ant 0	DSI 6	340500	1702.5	20.93	22.00	1.279	-	-	-0.09	2.000	2.559
	FR1 n70	15M	QPSK	36	22	DFT-15	Bottom side	0mm	Ant 0	DSI 6	340500	1702.5	20.93	22.00	1.279	-	-	-0.01	1.610	2.060
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	340500	1702.5	20.91	22.00	1.285	-	-	0.11	1.950	2.506
	FR1 n70	15M	QPSK	1	1	DFT-15	Bottom side	0mm	Ant 0	DSI 6	340500	1702.5	20.91	22.00	1.285	-	-	0.01	1.580	2.031
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	340500	1702.5	21.31	22.00	1.172	-	-	-0.14	1.610	1.887
	FR1 n70	15M	QPSK	1	1	DFT-15	Top side	0mm	Ant 1	DSI 6	340500	1702.5	21.31	22.00	1.172	-	-	-0.08	1.640	1.922
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	12mm	Ant 1	DSI 4	340500	1702.5	23.36	24.00	1.159	-	-	0.04	0.359	0.416
	FR1 n70	15M	QPSK	1	1	DFT-15	Top side	8mm	Ant 1	DSI 4	340500	1702.5	23.36	24.00	1.159	-	-	0.12	0.574	0.665
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	0mm	Ant 1	DSI 6	340500	1702.5	21.29	22.00	1.178	-	-	-0.18	1.600	1.884
	FR1 n70	15M	QPSK	36	22	DFT-15	Top side	0mm	Ant 1	DSI 6	340500	1702.5	21.29	22.00	1.178	-	-	0.09	1.630	1.919
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI 6	349000	1745	20.76	21.50	1.186	-	-	-0.02	0.933	1.106
105	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	349000	1745	20.76	21.50	1.186	-	-	-0.02	2.270	2.692
	FR1 n66_Other PA	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	349000	1745	20.56	21.50	1.242	-	-	-0.05	2.090	2.595
	FR1 n66	40M	QPSK	1	1	DFT-15	Bottom side	0mm	Ant 0	DSI 6	349000	1745	20.76	21.50	1.186	-	-	-0.14	1.680	1.992
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI 4	349000	1745	23.31	24.00	1.172	-	-	0.15	0.802	0.940
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	349000	1745	23.31	24.00	1.172	-	-	0.15	0.689	0.808
	FR1 n66	40M	QPSK	1	1	DFT-15	Bottom side	12mm	Ant 0	DSI 4	349000	1745	23.31	24.00	1.172	-	-	0.11	0.717	0.840
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	DSI 6	349000	1745	20.74	21.50	1.191	-	-	0.12	0.913	1.088
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 6	349000	1745	20.74	21.50	1.191	-	-	0.12	2.170	2.585
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom side	0mm	Ant 0	DSI 6	349000	1745	20.74	21.50	1.191	-	-	0.19	1.640	1.954
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 0	DSI 6	349000	1745	20.73	21.50	1.194	-	-	0.02	2.250	2.686
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	DSI 6	349000	1745	20.06	21.00	1.242	-	-	0.00	0.565	0.702
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	349000	1745	20.06	21.00	1.242	-	-	-0.08	1.100	1.366
	FR1 n66	40M	QPSK	1	1	DFT-15	Top side	0mm	Ant 1	DSI 6	349000	1745	20.06	21.00	1.242	-	-	-0.09	1.340	1.664
	FR1 n66_Other PA	40M	QPSK	1	1	DFT-15	Top side	0mm	Ant 1	DSI 6	349000	1745	19.97	21.00	1.268	-	-	-0.04	1.310	1.661
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	4mm	Ant 1	DSI 4	349000	1745	23.08	24.00	1.236	-	-	-0.18	0.411	0.508
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	12mm	Ant 1	DSI 4	349000	1745	23.08	24.00	1.236	-	-	-0.03	0.350	0.433
	FR1 n66	40M	QPSK	1	1	DFT-15	Top side	8mm	Ant 1	DSI 4	349000	1745	23.08	24.00	1.236	-	-	0.18	0.533	0.659
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	DSI 6	349000	1745	20.04	21.00	1.247	-	-	0.15	0.550	0.686
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI 6	349000	1745	20.04	21.00	1.247	-	-	-0.09	1.050	1.310
	FR1 n66	40M	QPSK	108	54	DFT-15	Top side	0mm	Ant 1	DSI 6	349000	1745	20.04	21.00	1.247	-	-	-0.01	1.280	1.597
1900MHz																				



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	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 0	DSI 6	661	1880	24.88	25.80	1.236	-	-	0.19	1.350	1.669
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	661	1880	24.88	25.80	1.236	-	-	0	1.920	2.373
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	512	1850.2	24.83	25.80	1.250	-	-	0.02	2.040	2.551
106	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	810	1909.8	24.81	25.80	1.256	-	-	0.15	2.140	2.688
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom side	0mm	Ant 0	DSI 6	661	1880	24.88	25.80	1.236	-	-	-0.14	1.470	1.817
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	9400	1880	19.48	20.70	1.324	-	-	0.18	1.430	1.894
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9400	1880	19.48	20.70	1.324	-	-	-0.08	1.820	2.410
107	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9262	1852.4	19.43	20.70	1.340	-	-	-0.09	2.040	2.733
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9538	1907.6	19.38	20.70	1.355	-	-	-0.04	1.850	2.507
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom side	0mm	Ant 0	DSI 6	9400	1880	19.48	20.70	1.324	-	-	0.09	1.770	2.344
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom side	0mm	Ant 0	DSI 6	9262	1852.4	19.43	20.70	1.340	-	-	-0.09	1.830	2.452
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom side	0mm	Ant 0	DSI 6	9538	1907.6	19.38	20.70	1.355	-	-	-0.01	1.810	2.453
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 4	9400	1880	22.75	24.00	1.334	-	-	0.08	1.560	2.080
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 4	9262	1852.4	22.74	24.00	1.337	-	-	-0.11	1.120	1.497
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom side	12mm	Ant 0	DSI 4	9538	1907.6	22.72	24.00	1.343	-	-	0.14	1.060	1.423
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9400	1880	22.45	24.00	1.429	-	-	0.12	0.956	1.366
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9400	1880	22.45	24.00	1.429	-	-	-0.05	1.250	1.786
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top side	0mm	Ant 1	DSI 6	9400	1880	22.45	24.00	1.429	-	-	0.19	1.320	1.886
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top side	0mm	Ant 1	DSI 6	9262	1852.4	22.44	24.00	1.432	-	-	0	1.370	1.962
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top side	0mm	Ant 1	DSI 6	9538	1907.6	22.40	24.00	1.445	-	-	0.02	1.340	1.937
	LTE Band 25	20M	QPSK	1	49	-	Front	0mm	Ant 0	DSI 6	26340	1880	19.87	20.90	1.268	-	-	0.01	1.460	1.851
	LTE Band 25	20M	QPSK	1	49	-	Back	0mm	Ant 0	DSI 6	26340	1880	19.87	20.90	1.268	-	-	-0.09	1.870	2.371
	LTE Band 25	20M	QPSK	1	49	-	Back	0mm	Ant 0	DSI 6	26140	1860	19.72	20.90	1.312	-	-	-0.08	1.920	2.519
108	LTE Band 25	20M	QPSK	1	49	-	Back	0mm	Ant 0	DSI 6	26590	1905	19.74	20.90	1.306	-	-	-0.02	2.080	2.717
	LTE Band 25_Other PA	20M	QPSK	1	49	-	Back	0mm	Ant 0	DSI 6	26590	1905	20.25	20.90	1.161	-	-	-0.14	2.010	2.335
	LTE Band 25	20M	QPSK	1	49	-	Bottom side	0mm	Ant 0	DSI 6	26340	1880	19.87	20.90	1.268	-	-	0.01	1.840	2.332
	LTE Band 25	20M	QPSK	1	49	-	Bottom side	0mm	Ant 0	DSI 6	26140	1860	19.72	20.90	1.312	-	-	0.12	1.880	2.467
	LTE Band 25	20M	QPSK	1	49	-	Bottom side	0mm	Ant 0	DSI 6	26590	1905	19.74	20.90	1.306	-	-	-0.05	1.710	2.234
	LTE Band 25	20M	QPSK	1	49	-	Front	5mm	Ant 0	DSI 4	26340	1880	22.67	24.00	1.358	-	-	0.06	1.310	1.779
	LTE Band 25	20M	QPSK	1	49	-	Back	10mm	Ant 0	DSI 4	26590	1905	22.61	24.00	1.377	-	-	0.14	0.779	1.073
	LTE Band 25	20M	QPSK	1	49	-	Bottom side	12mm	Ant 0	DSI 4	26140	1860	22.51	24.00	1.409	-	-	-0.13	1.140	1.607
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	26340	1880	19.82	20.90	1.282	-	-	0	1.390	1.782
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	19.82	20.90	1.282	-	-	0.02	1.790	2.295
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	26140	1860	19.66	20.90	1.330	-	-	0.15	1.830	2.435
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	26590	1905	19.69	20.90	1.321	-	-	-0.14	1.690	2.233
	LTE Band 25	20M	QPSK	50	0	-	Bottom side	0mm	Ant 0	DSI 6	26340	1880	19.82	20.90	1.282	-	-	-0.08	1.760	2.257
	LTE Band 25	20M	QPSK	50	0	-	Bottom side	0mm	Ant 0	DSI 6	26140	1860	19.66	20.90	1.330	-	-	0.14	1.800	2.395
	LTE Band 25	20M	QPSK	50	0	-	Bottom side	0mm	Ant 0	DSI 6	26590	1905	19.69	20.90	1.321	-	-	-0.18	1.630	2.154
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	19.80	20.90	1.288	-	-	-0.1	1.750	2.254
	LTE Band 25	20M	QPSK	100	0	-	Bottom side	0mm	Ant 0	DSI 6	26340	1880	19.80	20.90	1.288	-	-	0.15	1.710	2.203
	LTE Band 25	20M	QPSK	1	49	-	Front	0mm	Ant 1	DSI 6	26340	1880	21.06	22.50	1.393	-	-	-0.08	0.851	1.186
	LTE Band 25	20M	QPSK	1	49	-	Back	0mm	Ant 1	DSI 6	26340	1880	21.06	22.50	1.393	-	-	-0.02	1.250	1.741
	LTE Band 25	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	26340	1880	21.06	22.50	1.393	-	-	-0.14	1.390	1.936
	LTE Band 25_Other PA	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	26340	1880	21.68	22.50	1.208	-	-	0.01	1.530	1.848
	LTE Band 25	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	26140	1860	20.91	22.50	1.442	-	-	0.12	1.160	1.673
	LTE Band 25	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	26590	1905	20.90	22.50	1.445	-	-	-0.05	1.270	1.836
	LTE Band 25	20M	QPSK	1	49	-	Front	4mm	Ant 1	DSI 4	26340	1880	22.57	24.00	1.390	-	-	0.01	0.520	0.723
	LTE Band 25	20M	QPSK	1	49	-	Back	12mm	Ant 1	DSI 4	26340	1880	22.57	24.00	1.390	-	-	-0.17	0.287	0.399
	LTE Band 25	20M	QPSK	1	49	-	Top side	8mm	Ant 1	DSI 4	26340	1880	22.57	24.00	1.390	-	-	-0.16	0.577	0.802
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	26340	1880	21.04	22.50	1.400	-	-	0	0.813	1.138
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	26340	1880	21.04	22.50	1.400	-	-	0.02	1.190	1.666
	LTE Band 25	20M	QPSK	50	0	-	Top side	0mm	Ant 1	DSI 6	26340	1880	21.04	22.50	1.400	-	-	0.15	1.210	1.694
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI 6	376500	1882.5	19.41	20.00	1.146	-	-	0.14	1.550	1.776



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109	FR1 n25	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	376500	1882.5	19.41	20.00	1.146	-	-	-0.01	2.120	2.428
	FR1 n25_Other PA	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	376500	1882.5	19.27	20.00	1.183	-	-	0.18	1.940	2.295
	FR1 n25	40M	QPSK	1	1	DFT-15	Bottom side	0mm	Ant 0	DSI 6	376500	1882.5	19.41	20.00	1.146	-	-	0.11	1.260	1.443
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI 4	376500	1882.5	23.36	24.00	1.159	-	-	-0.19	1.767	2.048
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	376500	1882.5	23.36	24.00	1.159	-	-	0.03	0.600	0.695
	FR1 n25	40M	QPSK	1	1	DFT-15	Bottom side	12mm	Ant 0	DSI 4	376500	1882.5	23.36	24.00	1.159	-	-	-0.17	0.686	0.795
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	DSI 6	376500	1882.5	19.36	20.00	1.159	-	-	-0.09	1.490	1.727
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 6	376500	1882.5	19.36	20.00	1.159	-	-	-0.09	2.030	2.352
	FR1 n25	40M	QPSK	108	54	DFT-15	Bottom side	0mm	Ant 0	DSI 6	376500	1882.5	19.36	20.00	1.159	-	-	-0.08	1.200	1.391
	FR1 n25	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 0	DSI 6	376500	1882.5	19.35	20.00	1.161	-	-	-0.14	1.910	2.218
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	376500	1882.5	20.82	22.00	1.312	-	-	-0.1	1.330	1.745
	FR1 n25	40M	QPSK	1	1	DFT-15	Top side	0mm	Ant 1	DSI 6	376500	1882.5	20.82	22.00	1.312	-	-	0.15	1.380	1.811
	FR1 n25_Other PA	40M	QPSK	1	1	DFT-15	Top side	0mm	Ant 1	DSI 6	376500	1882.5	21.32	22.00	1.169	-	-	-0.08	1.410	1.649
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	12mm	Ant 1	DSI 4	376500	1882.5	22.78	24.00	1.324	-	-	0.09	0.335	0.444
	FR1 n25	40M	QPSK	1	1	DFT-15	Top side	8mm	Ant 1	DSI 4	376500	1882.5	22.78	24.00	1.324	-	-	0.17	0.549	0.727
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1		376500	1882.5	20.80	22.00	1.318	-	-	0.16	1.270	1.674
	FR1 n25	40M	QPSK	108	54	DFT-15	Top side	0mm	Ant 1	DSI 6	376500	1882.5	20.80	22.00	1.318	-	-	0.18	1.320	1.740
2300MHz																				
110	LTE Band 30	10M	QPSK	1	25	-	Right side	0mm	Ant 9	DSI 6	27710	2310	21.03	22.00	1.250	-	-	0.12	2.540	3.176
	LTE Band 30	10M	QPSK	1	25	-	Right side	7mm	Ant 9	DSI 4	27710	2310	23.49	24.00	1.125	-	-	0.09	0.431	0.485
	LTE Band 30	10M	QPSK	25	0	-	Right side	0mm	Ant 9	DSI 6	27710	2310	21.01	22.00	1.256	-	-	-0.14	2.340	2.939
	LTE Band 30	10M	QPSK	50	0	-	Right side	0mm	Ant 9	DSI 6	27710	2310	20.95	22.00	1.274	-	-	0.14	2.310	2.942
	LTE Band 30	10M	QPSK	1	25	-	Front	0mm	Ant 1	DSI 6	27710	2310	17.57	18.90	1.358	-	-	-0.09	0.439	0.596
	LTE Band 30	10M	QPSK	1	25	-	Back	0mm	Ant 1	DSI 6	27710	2310	17.57	18.90	1.358	-	-	-0.01	1.020	1.385
	LTE Band 30	10M	QPSK	1	25	-	Top side	0mm	Ant 1	DSI 6	27710	2310	17.57	18.90	1.358	-	-	0.18	1.320	1.793
	LTE Band 30	10M	QPSK	1	25	-	Front	4mm	Ant 1	DSI 4	27710	2310	22.26	24.00	1.493	-	-	0.17	0.485	0.724
	LTE Band 30	10M	QPSK	1	25	-	Back	12mm	Ant 1	DSI 4	27710	2310	22.26	24.00	1.493	-	-	0.05	0.328	0.490
	LTE Band 30	10M	QPSK	1	25	-	Top side	8mm	Ant 1	DSI 4	27710	2310	22.26	24.00	1.493	-	-	0.04	0.724	1.081
	LTE Band 30	10M	QPSK	25	0	-	Front	0mm	Ant 1	DSI 6	27710	2310	17.55	18.90	1.365	-	-	-0.09	0.419	0.572
	LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 1	DSI 6	27710	2310	17.55	18.90	1.365	-	-	-0.08	0.974	1.329
	LTE Band 30	10M	QPSK	25	0	-	Top side	0mm	Ant 1	DSI 6	27710	2310	17.55	18.90	1.365	-	-	-0.02	1.240	1.692
111	FR1 n30	10M	QPSK	1	1	DFT-15	Right side	0mm	Ant 9	DSI 6	462000	2310	21.37	22.50	1.297	-	-	-0.1	2.090	2.711
	FR1 n30	10M	QPSK	1	1	DFT-15	Right side	7mm	Ant 9	DSI 4	462000	2310	22.90	24.00	1.288	-	-	0.07	0.301	0.388
	FR1 n30	10M	QPSK	25	14	DFT-15	Right side	0mm	Ant 9	DSI 6	462000	2310	21.35	22.50	1.303	-	-	-0.08	2.050	2.671
	FR1 n30	10M	QPSK	50	0	DFT-15	Right side	0mm	Ant 9	DSI 6	462000	2310	21.28	22.50	1.324	-	-	0.16	2.020	2.675
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	462000	2310	17.78	19.50	1.486	-	-	-0.08	1.010	1.501
	FR1 n30	10M	QPSK	1	1	DFT-15	Top side	0mm	Ant 1	DSI 6	462000	2310	17.78	19.50	1.486	-	-	-0.02	1.320	1.961
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	12mm	Ant 1	DSI 4	462000	2310	22.18	24.00	1.521	-	-	0.19	0.344	0.523
	FR1 n30	10M	QPSK	1	1	DFT-15	Top side	8mm	Ant 1	DSI 4	462000	2310	22.18	24.00	1.521	-	-	0.01	0.730	1.110
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	0mm	Ant 1	DSI 6	462000	2310	17.77	19.50	1.489	-	-	0.01	0.979	1.458
	FR1 n30	10M	QPSK	25	14	DFT-15	Top side	0mm	Ant 1	DSI 6	462000	2310	17.77	19.50	1.489	-	-	0.12	1.220	1.817
2600MHz																				
	LTE Band 7	20M	QPSK	1	49	-	Back	0mm	Ant 9	DSI 6	21100	2535	19.21	20.00	1.199	-	-	-0.09	1.360	1.631
	LTE Band 7	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	21100	2535	19.21	20.00	1.199	-	-	-0.01	2.380	2.855
	LTE Band 7	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	20850	2510	19.18	20.00	1.208	-	-	0.18	2.200	2.657
112	LTE Band 7	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	21350	2560	19.19	20.00	1.205	-	-	0.11	2.630	3.169
	LTE Band 7	20M	QPSK	1	49	-	Back	5mm	Ant 9	DSI 4	21100	2535	23.24	24.00	1.191	-	-	-0.15	1.050	1.251
	LTE Band 7	20M	QPSK	1	49	-	Right side	7mm	Ant 9	DSI 4	21100	2535	23.24	24.00	1.191	-	-	-0.04	1.210	1.441
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 9	DSI 6	21100	2535	19.19	20.00	1.205	-	-	-0.02	1.300	1.567
	LTE Band 7	20M	QPSK	50	0	-	Right side	0mm	Ant 9	DSI 6	21100	2535	19.19	20.00	1.205	-	-	-0.14	2.270	2.735
	LTE Band 7	20M	QPSK	50	0	-	Right side	0mm	Ant 9	DSI 6	20850	2510	19.17	20.00	1.211	-	-	0.01	2.100	2.542
	LTE Band 7	20M	QPSK	50	0	-	Right side	0mm	Ant 9	DSI 6	21350	2560	19.16	20.00	1.213	-	-	0.12	2.430	2.949
	LTE Band 7	20M	QPSK	100	0	-	Right side	0mm	Ant 9	DSI 6	21100	2535	19.17	20.00	1.211	-	-	0.19	2.250	2.724
	LTE Band 7	20M	QPSK	1	49	-	Front	0mm	Ant 1	DSI 6	21100	2535	17.73	19.10	1.371	-	-	-0.08	0.457	0.626
	LTE Band 7	20M	QPSK	1	49	-	Back	0mm	Ant 1	DSI 6	21100	2535	17.73	19.10	1.371	-	-	-0.09	1.120	1.535
	LTE Band 7	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	21100	2535	17.73	19.10	1.371	-	-	-0.04	1.360	1.864
	LTE Band 7	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	20850	2510	17.61	19.10	1.409	-	-	0.09	1.370	1.931



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	LTE Band 7	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	21350	2560	17.59	19.10	1.416	-	-	-0.01	1.290	1.826
	LTE Band 7	20M	QPSK	1	49	-	Front	4mm	Ant 1	DSI 4	21100	2535	22.65	24.00	1.365	-	-	-0.16	0.416	0.568
	LTE Band 7	20M	QPSK	1	49	-	Back	12mm	Ant 1	DSI 4	21100	2535	22.65	24.00	1.365	-	-	-0.11	0.322	0.439
	LTE Band 7	20M	QPSK	1	49	-	Top side	8mm	Ant 1	DSI 4	20850	2510	22.27	24.00	1.489	-	-	0.12	0.707	1.053
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	17.71	19.10	1.377	-	-	0.11	0.436	0.600
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	17.71	19.10	1.377	-	-	0.01	1.070	1.474
	LTE Band 7	20M	QPSK	50	0	-	Top side	0mm	Ant 1	DSI 6	21100	2535	17.71	19.10	1.377	-	-	-0.09	1.390	1.914
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 9	DSI 6	41490	2680	23.67	24.00	1.079	62.9	1.006	-0.09	1.690	1.834
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 9	DSI 6	39750	2506	22.73	24.00	1.340	62.9	1.006	0.18	1.150	1.550
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 9	DSI 6	40185	2549.5	23.07	24.00	1.239	62.9	1.006	0.11	1.310	1.633
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 9	DSI 6	40620	2593	23.30	24.00	1.175	62.9	1.006	0.01	1.660	1.962
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 9	DSI 6	41055	2636.5	23.04	24.00	1.247	62.9	1.006	-0.09	1.710	2.146
	LTE Band 41	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	41490	2680	23.67	24.00	1.079	62.9	1.006	-0.08	1.860	2.019
	LTE Band 41	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	39750	2506	22.73	24.00	1.340	62.9	1.006	-0.14	2.210	2.978
113	LTE Band 41	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	40185	2549.5	23.07	24.00	1.239	62.9	1.006	0.01	2.450	3.053
	LTE Band 41C	20M	QPSK	1	0	-	Right side	0mm	Ant 9	DSI 6	40185+40383	2549.5+2569.3	22.96	24.00	1.271	62.9	1.006	-0.06	2.210	2.825
	LTE Band 41	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	40620	2593	23.30	24.00	1.175	62.9	1.006	0.12	2.290	2.707
	LTE Band 41	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	41055	2636.5	23.04	24.00	1.247	62.9	1.006	-0.05	2.120	2.660
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	40185	2549.5	24.76	25.60	1.213	42.9	1.009	0.19	2.280	2.791
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 9	DSI 6	41490	2680	23.60	24.00	1.096	62.9	1.006	0.15	1.610	1.776
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 9	DSI 6	39750	2506	22.85	24.00	1.303	62.9	1.006	-0.08	1.100	1.442
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 9	DSI 6	40185	2549.5	23.20	24.00	1.202	62.9	1.006	0.14	1.250	1.512
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 9	DSI 6	40620	2593	23.34	24.00	1.164	62.9	1.006	-0.18	1.590	1.862
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 9	DSI 6	41055	2636.5	23.10	24.00	1.230	62.9	1.006	0.09	1.630	2.017
	LTE Band 41	20M	QPSK	50	0	-	Right side	0mm	Ant 9	DSI 6	41490	2680	23.60	24.00	1.096	62.9	1.006	-0.1	1.780	1.963
	LTE Band 41	20M	QPSK	50	0	-	Right side	0mm	Ant 9	DSI 6	39750	2506	22.85	24.00	1.303	62.9	1.006	-0.08	2.110	2.766
	LTE Band 41	20M	QPSK	50	0	-	Right side	0mm	Ant 9	DSI 6	40185	2549.5	23.20	24.00	1.202	62.9	1.006	0.03	2.340	2.830
	LTE Band 41	20M	QPSK	50	0	-	Right side	0mm	Ant 9	DSI 6	40620	2593	23.34	24.00	1.164	62.9	1.006	0.16	2.190	2.565
	LTE Band 41	20M	QPSK	50	0	-	Right side	0mm	Ant 9	DSI 6	41055	2636.5	23.10	24.00	1.230	62.9	1.006	0.18	2.030	2.512
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 9	DSI 6	41490	2680	23.58	24.00	1.102	62.9	1.006	-0.09	1.350	1.496
	LTE Band 41	20M	QPSK	100	0	-	Right side	0mm	Ant 9	DSI 6	41490	2680	23.58	24.00	1.102	62.9	1.006	-0.04	2.150	2.383
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 1	DSI 6	40620	2593	20.47	21.10	1.156	62.9	1.006	0.15	1.160	1.349
	LTE Band 41	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	40620	2593	20.47	21.10	1.156	62.9	1.006	-0.08	1.440	1.675
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	40620	2593	21.97	22.70	1.183	42.9	1.009	-0.08	1.300	1.552
	LTE Band 41	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	39750	2506	20.33	21.10	1.194	62.9	1.006	0.16	1.310	1.574
	LTE Band 41C	20M	QPSK	1	0	-	Top side	0mm	Ant 1	DSI 6	39750+39948	2506+2525.8	20.29	21.10	1.205	62.9	1.006	0.04	1.220	1.479
	LTE Band 41	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	40185	2549.5	20.40	21.10	1.175	62.9	1.006	0.18	1.300	1.537
	LTE Band 41	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	41055	2636.5	20.45	21.10	1.161	62.9	1.006	-0.08	1.200	1.402
	LTE Band 41	20M	QPSK	1	49	-	Top side	0mm	Ant 1	DSI 6	41490	2680	20.33	21.10	1.194	62.9	1.006	-0.09	1.300	1.561
	LTE Band 41	20M	QPSK	1	49	-	Back	12mm	Ant 1	DSI 4	40620	2593	23.23	24.00	1.194	62.9	1.006	0.1	0.479	0.575
	LTE Band 41	20M	QPSK	1	49	-	Top side	8mm	Ant 1	DSI 4	40620	2593	23.23	24.00	1.194	62.9	1.006	0.07	0.932	1.119
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	20.43	21.10	1.167	62.9	1.006	-0.01	1.110	1.303
	LTE Band 41	20M	QPSK	50	0	-	Top side	0mm	Ant 1	DSI 6	40620	2593	20.43	21.10	1.167	62.9	1.006	0.11	1.340	1.573
	LTE Band 41	20M	QPSK	50	0	-	Top side	0mm	Ant 1	DSI 6	39750	2506	20.28	21.10	1.208	62.9	1.006	-0.09	1.250	1.519
	LTE Band 41	20M	QPSK	50	0	-	Top side	0mm	Ant 1	DSI 6	40185	2549.5	20.37	21.10	1.183	62.9	1.006	-0.08	1.280	1.523
	LTE Band 41	20M	QPSK	50	0	-	Top side	0mm	Ant 1	DSI 6	41055	2636.5	20.42	21.10	1.169	62.9	1.006	-0.02	1.150	1.353
	LTE Band 41	20M	QPSK	50	0	-	Top side	0mm	Ant 1	DSI 6	41490	2680	20.32	21.10	1.197	62.9	1.006	-0.14	1.340	1.613
	LTE Band 41	20M	QPSK	100	0	-	Top side	0mm	Ant 1	DSI 6	40620	2593	20.40	21.10	1.175	62.9	1.006	0.12	1.320	1.560
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 2	DSI 6	40620	2593	23.53	24.00	1.114	62.9	1.006	-0.05	1.270	1.424
	LTE Band 41	20M	QPSK	1	49	-	Left side	0mm	Ant 2	DSI 6	40620	2593	23.53	24.00	1.114	62.9	1.006	0.19	1.790	2.007
	LTE Band 41	20M	QPSK	1	49	-	Left side	0mm	Ant 2	DSI 6	39750	2506	23.08	24.00	1.236	62.9	1.006	0.02	1.660	2.064
	LTE Band 41	20M	QPSK	1	49	-	Left side	0mm	Ant 2	DSI 6	40185	2549.5	23.32	24.00	1.169	62.9	1.006	0.15	1.800	2.118
	LTE Band 41C	20M	QPSK	1	49	-	Left side	0mm	Ant 2	DSI 6	40185+40383	2549.5+2569.3	25.33	27.00	1.469	62.9	1.006	0.07	1.420	2.098
	LTE Band 41	20M	QPSK	1	49	-	Left side	0mm	Ant 2	DSI 6	41055	2636.5	23.12	24.00	1.225	62.9	1.006	-0.14	1.540	1.897
	LTE Band 41	20M	QPSK	1	49	-	Left side	0mm	Ant 2	DSI 6	41490	2680	23.38	24.00	1.153	62.9	1.006	-0.08	1.360	1.578
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	40620	2593	23.49	24.00	1.125	62.9	1.006	0.09	1.210	1.369
	LTE Band 41	20M	QPSK	50	0	-	Left side	0mm	Ant 2	DSI 6	40620	2593	23.49	24.00	1.125	62.9	1.006	-0.1	1.690	1.912



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	LTE Band 41	20M	QPSK	50	0	-	Left side	0mm	Ant 2	DSI 6	39750	2506	23.18	24.00	1.208	62.9	1.006	-0.08	1.610	1.956
	LTE Band 41	20M	QPSK	50	0	-	Left side	0mm	Ant 2	DSI 6	40185	2549.5	23.45	24.00	1.135	62.9	1.006	0.03	1.700	1.941
	LTE Band 41	20M	QPSK	50	0	-	Left side	0mm	Ant 2	DSI 6	41055	2636.5	23.12	24.00	1.225	62.9	1.006	0.16	1.450	1.786
	LTE Band 41	20M	QPSK	50	0	-	Left side	0mm	Ant 2	DSI 6	41490	2680	23.34	24.00	1.164	62.9	1.006	0.18	1.280	1.499
	LTE Band 41	20M	QPSK	100	0	-	Left side	0mm	Ant 2	DSI 6	40620	2593	23.47	24.00	1.130	62.9	1.006	-0.09	1.570	1.784
	LTE Band 41	20M	QPSK	1	49	-	Left side	0mm	Ant 6	DSI 6	40620	2593	21.44	22.30	1.219	62.9	1.006	-0.1	1.040	1.275
	LTE Band 41	20M	QPSK	1	49	-	Left side	0mm	Ant 6	DSI 6	39750	2506	21.29	22.30	1.262	62.9	1.006	-0.08	0.876	1.112
	LTE Band 41	20M	QPSK	1	49	-	Left side	0mm	Ant 6	DSI 6	40185	2549.5	21.28	22.30	1.265	62.9	1.006	0.03	1.010	1.285
	LTE Band 41	20M	QPSK	1	49	-	Left side	0mm	Ant 6	DSI 6	41055	2636.5	21.42	22.30	1.225	62.9	1.006	0.16	1.060	1.306
	LTE Band 41C	20M	QPSK	1	0	-	Left side	0mm	Ant 6	DSI 6	41055+ 41253	2636.5+ 2656.3	21.32	22.30	1.253	62.9	1.006	0.08	1.010	1.273
	LTE Band 41	20M	QPSK	1	49	-	Left side	0mm	Ant 6	DSI 6	41490	2680	21.40	22.30	1.230	62.9	1.006	0.18	0.711	0.880
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Left side	0mm	Ant 6	DSI 6	41055	2636.5	22.88	23.90	1.265	42.9	1.009	-0.08	1.010	1.289
	LTE Band 41	20M	QPSK	1	49	-	Left side	13mm	Ant 6	DSI 4	41055	2636.5	22.92	24.00	1.282	62.9	1.006	0.19	0.235	0.303
	LTE Band 41	20M	QPSK	50	0	-	Left side	0mm	Ant 6	DSI 6	40620	2593	21.41	22.30	1.227	62.9	1.006	0.09	0.993	1.226
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 9	DSI 6	507000	2535	20.29	21.00	1.178	-	-	0.14	1.390	1.637
114	FR1 n7	40M	QPSK	1	1	DFT-15	Right side	0mm	Ant 9	DSI 6	507000	2535	20.29	21.00	1.178	-	-	-0.18	2.390	2.814
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 9	DSI 4	507000	2535	23.26	24.00	1.186	-	-	0.02	0.707	0.838
	FR1 n7	40M	QPSK	1	1	DFT-15	Right side	7mm	Ant 9	DSI 4	507000	2535	23.26	24.00	1.186	-	-	0.15	0.925	1.097
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 9	DSI 6	507000	2535	20.23	21.00	1.194	-	-	-0.1	1.320	1.576
	FR1 n7	40M	QPSK	108	54	DFT-15	Right side	0mm	Ant 9	DSI 6	507000	2535	20.23	21.00	1.194	-	-	0.15	2.100	2.507
	FR1 n7	40M	QPSK	216	0	DFT-15	Right side	0mm	Ant 9	DSI 6	507000	2535	20.21	21.00	1.199	-	-	0.03	2.300	2.759
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	DSI 6	507000	2535	18.63	19.50	1.222	-	-	0.00	0.733	0.896
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	507000	2535	18.63	19.50	1.222	-	-	-0.09	1.390	1.698
	FR1 n7	40M	QPSK	1	1	DFT-15	Top side	0mm	Ant 1	DSI 6	507000	2535	18.63	19.50	1.222	-	-	-0.08	1.630	1.992
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	4mm	Ant 1	DSI 4	507000	2535	23.23	24.00	1.194	-	-	-0.02	0.466	0.556
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	12mm	Ant 1	DSI 4	507000	2535	23.23	24.00	1.194	-	-	-0.12	0.380	0.454
	FR1 n7	40M	QPSK	1	1	DFT-15	Top side	8mm	Ant 1	DSI 4	507000	2535	23.23	24.00	1.194	-	-	-0.14	0.896	1.070
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	DSI 6	507000	2535	18.62	19.50	1.225	-	-	0.00	0.721	0.883
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI 6	507000	2535	18.62	19.50	1.225	-	-	-0.14	1.270	1.555
	FR1 n7	40M	QPSK	108	54	DFT-15	Top side	0mm	Ant 1	DSI 6	507000	2535	18.62	19.50	1.225	-	-	0.01	1.620	1.984
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 9	DSI 6	518598	2592.99	19.92	21.00	1.282	-	-	0.02	0.511	0.655
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	DSI 6	518598	2592.99	19.92	21.00	1.282	-	-	-0.08	1.410	1.808
115	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right side	0mm	Ant 9	DSI 6	518598	2592.99	19.92	21.00	1.282	-	-	0.03	2.470	3.167
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 9	DSI 4	518598	2592.99	26.01	27.00	1.256	-	-	0.1	2.370	2.977
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	DSI 4	518598	2592.99	26.01	27.00	1.256	-	-	-0.08	1.390	1.746
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right side	7mm	Ant 9	DSI 4	518598	2592.99	26.01	27.00	1.256	-	-	-0.08	2.020	2.537
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 9	DSI 6	518598	2592.99	19.91	21.00	1.285	-	-	-0.04	0.488	0.627
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 9	DSI 6	518598	2592.99	19.91	21.00	1.285	-	-	0.18	1.350	1.735
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right side	0mm	Ant 9	DSI 6	518598	2592.99	19.91	21.00	1.285	-	-	-0.08	2.360	3.033
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Right side	0mm	Ant 9	DSI 6	518598	2592.99	19.89	21.00	1.291	-	-	-0.04	2.250	2.905
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 1	DSI 6	518598	2592.99	17.95	19.50	1.429	-	-	-0.14	0.665	0.950
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	DSI 6	518598	2592.99	17.95	19.50	1.429	-	-	0.12	1.140	1.629
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Top side	0mm	Ant 1	DSI 6	518598	2592.99	17.95	19.50	1.429	-	-	-0.05	1.380	1.972
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	4mm	Ant 1	DSI 4	518598	2592.99	25.48	27.00	1.419	-	-	0.07	0.305	0.433
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	12mm	Ant 1	DSI 4	518598	2592.99	25.48	27.00	1.419	-	-	-0.1	0.573	0.813
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Top side	8mm	Ant 1	DSI 4	518598	2592.99	25.48	27.00	1.419	-	-	0.18	1.270	1.802
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 1	DSI 6	518598	2592.99	17.90	19.50	1.445	-	-	0.02	0.633	0.915
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	DSI 6	518598	2592.99	17.90	19.50	1.445	-	-	0	1.110	1.604
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Top side	0mm	Ant 1	DSI 6	518598	2592.99	17.90	19.50	1.445	-	-	0.02	1.330	1.922
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 1	DSI 6	518598	2592.99	17.87	19.50	1.455	-	-	-0.14	1.090	1.586
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Top side	0mm	Ant 1	DSI 6	518598	2592.99	17.87	19.50	1.455	-	-	-0.08	1.320	1.921
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left side	0mm	Ant 2	DSI 6	518598	2592.99	21.95	23.00	1.274	-	-	0.18	2.140	2.725
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left side	0mm	Ant 2	DSI 6	518598	2592.99	21.92	23.00	1.282	-	-	-0.09	2.040	2.616
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Left side	0mm	Ant 2	DSI 6	518598	2592.99	21.91	23.00	1.285	-	-	-0.14	1.850	2.378
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 6	DSI 6	518598	2592.99	17.36	18.50	1.300	-	-	0.00	0.438	0.569
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 6	DSI 6	518598	2592.99	17.36	18.50	1.300	-	-	0.09	0.712	0.926
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left side	0mm	Ant 6	DSI 6	518598	2592.99	17.36	18.50	1.300	-	-	-0.1	1.020	1.326



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	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 6	DSI 4	518598	2592.99	24.36	25.50	1.300	-	-	-0.15	0.192	0.250
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	518598	2592.99	24.36	25.50	1.300	-	-	0.09	0.139	0.181
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left side	13mm	Ant 6	DSI 4	518598	2592.99	24.36	25.50	1.300	-	-	-0.08	0.186	0.242
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 6	DSI 6	518598	2592.99	17.33	18.50	1.309	-	-	0.16	0.406	0.532
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 6	DSI 6	518598	2592.99	17.33	18.50	1.309	-	-	-0.08	0.676	0.885
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left side	0mm	Ant 6	DSI 6	518598	2592.99	17.33	18.50	1.309	-	-	0.03	0.986	1.291
3000MHz-4000MHz																				
	LTE Band 48	20M	QPSK	1	49	-	Back	0mm	Ant 4	DSI 6	56640	3690	19.07	20.00	1.239	62.9	1.006	-0.14	1.180	1.471
	LTE Band 48	20M	QPSK	1	49	-	Left side	0mm	Ant 4	DSI 6	56640	3690	19.07	20.00	1.239	62.9	1.006	-0.08	1.300	1.620
	LTE Band 48	20M	QPSK	1	49	-	Left side	0mm	Ant 4	DSI 6	55340	3560	19.03	20.00	1.250	62.9	1.006	0.14	1.570	1.975
	LTE Band 48C	20M	QPSK	1	0	-	Left side	0mm	Ant 4	DSI 6	55340+ 55538	3560+ 3579.8	19.24	20.00	1.191	62.9	1.006	0.19	1.610	1.929
	LTE Band 48_Other PA	20M	QPSK	1	49	-	Left side	0mm	Ant 4	DSI 6	55340	3560	19.02	20.00	1.253	62.9	1.006	-0.18	1.430	1.803
	LTE Band 48	20M	QPSK	1	49	-	Left side	0mm	Ant 4	DSI 6	55830	3609	19.02	20.00	1.253	62.9	1.006	0.09	1.510	1.904
	LTE Band 48	20M	QPSK	1	49	-	Left side	0mm	Ant 4	DSI 6	56150	3641	18.94	20.00	1.276	62.9	1.006	-0.1	1.400	1.798
	LTE Band 48	20M	QPSK	1	49	-	Back	12mm	Ant 4	DSI 4	56640	3690	23.58	24.00	1.102	62.9	1.006	-0.17	0.222	0.246
	LTE Band 48	20M	QPSK	1	49	-	Left side	7mm	Ant 4	DSI 4	55340	3560	23.28	24.00	1.180	62.9	1.006	0.07	0.841	0.999
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 4	DSI 6	56640	3690	19.06	20.00	1.242	62.9	1.006	0.03	1.130	1.411
	LTE Band 48	20M	QPSK	50	0	-	Left side	0mm	Ant 4	DSI 6	56640	3690	19.06	20.00	1.242	62.9	1.006	0.16	1.150	1.436
	LTE Band 48	20M	QPSK	50	0	-	Left side	0mm	Ant 4	DSI 6	55340	3560	19.01	20.00	1.256	62.9	1.006	0.18	1.500	1.895
	LTE Band 48	20M	QPSK	50	0	-	Left side	0mm	Ant 4	DSI 6	55830	3609	18.98	20.00	1.265	62.9	1.006	-0.08	1.440	1.832
	LTE Band 48	20M	QPSK	50	0	-	Left side	0mm	Ant 4	DSI 6	56150	3641	18.92	20.00	1.282	62.9	1.006	-0.09	1.340	1.729
	LTE Band 48	20M	QPSK	100	0	-	Left side	0mm	Ant 4	DSI 6	56640	3690	19.01	20.00	1.256	62.9	1.006	0.09	1.430	1.807
116	LTE Band 48	20M	QPSK	1	49	-	Back	0mm	Ant 7	DSI 6	55340	3560	22.92	24.00	1.282	62.9	1.006	0.09	1.540	1.987
	LTE Band 48C	20M	QPSK	1	0	-	Back	0mm	Ant 7	DSI 6	55340+ 55538	3560+ 3579.8	23.28	24.00	1.180	62.9	1.006	0.13	1.610	1.912
	LTE Band 48_Other PA	20M	QPSK	1	49	-	Back	0mm	Ant 7	DSI 6	55340	3560	21.57	22.50	1.239	62.9	1.006	-0.1	1.410	1.757
	LTE Band 48	20M	QPSK	1	49	-	Back	0mm	Ant 7	DSI 6	55830	3609	22.73	24.00	1.340	62.9	1.006	0.15	1.370	1.846
	LTE Band 48	20M	QPSK	1	49	-	Back	0mm	Ant 7	DSI 6	56150	3641	22.44	24.00	1.432	62.9	1.006	-0.08	1.350	1.945
	LTE Band 48	20M	QPSK	1	49	-	Back	0mm	Ant 7	DSI 6	56640	3690	22.81	24.00	1.315	62.9	1.006	0.03	1.360	1.799
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	DSI 6	55340	3560	22.15	23.00	1.216	62.9	1.006	0.18	0.935	1.144
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	DSI 6	55830	3609	21.92	23.00	1.282	62.9	1.006	-0.08	0.914	1.179
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	DSI 6	56150	3641	21.60	23.00	1.380	62.9	1.006	-0.09	0.907	1.260
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	DSI 6	56640	3690	22.04	23.00	1.247	62.9	1.006	-0.04	0.896	1.124
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 7	DSI 6	55340	3560	22.14	23.00	1.219	62.9	1.006	-0.09	0.912	1.118
	LTE Band 48	20M	QPSK	1	49	-	Back	0mm	Ant 10	DSI 6	55830	3609	18.13	19.00	1.222	62.9	1.006	-0.18	0.913	1.122
	LTE Band 48	20M	QPSK	1	49	-	Back	0mm	Ant 10	DSI 6	55340	3560	17.90	19.00	1.288	62.9	1.006	0.09	0.930	1.205
	LTE Band 48C	20M	QPSK	1	0	-	Back	0mm	Ant 10	DSI 6	55340+ 55538	3560+ 3579.8	18.32	19.00	1.169	62.9	1.006	0.08	0.952	1.120
	LTE Band 48_Other PA	20M	QPSK	1	49	-	Back	0mm	Ant 10	DSI 6	55340	3560	17.93	19.00	1.279	62.9	1.006	-0.1	0.869	1.118
	LTE Band 48	20M	QPSK	1	49	-	Back	0mm	Ant 10	DSI 6	56150	3641	18.00	19.00	1.259	62.9	1.006	0.15	0.917	1.161
	LTE Band 48	20M	QPSK	1	49	-	Back	0mm	Ant 10	DSI 6	56640	3690	18.05	19.00	1.245	62.9	1.006	-0.08	0.925	1.158
	LTE Band 48	20M	QPSK	1	49	-	Back	10mm	Ant 10	DSI 4	55340	3560	22.85	24.00	1.303	62.9	1.006	-0.18	0.228	0.299
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 10	DSI 6	55830	3609	18.12	19.00	1.225	62.9	1.006	0.16	0.903	1.112
	LTE Band 48	20M	QPSK	1	49	-	Back	0mm	Ant 8	DSI 6	55340	3560	21.48	21.70	1.052	62.9	1.006	0.14	0.850	0.900
	LTE Band 48	20M	QPSK	1	49	-	Top side	0mm	Ant 8	DSI 6	55340	3560	21.48	21.70	1.052	62.9	1.006	-0.18	1.240	1.312
	LTE Band 48	20M	QPSK	1	49	-	Top side	0mm	Ant 8	DSI 6	55830	3609	21.36	21.70	1.081	62.9	1.006	0.09	1.350	1.469
	LTE Band 48	20M	QPSK	1	49	-	Top side	0mm	Ant 8	DSI 6	56150	3641	21.30	21.70	1.096	62.9	1.006	-0.1	1.050	1.158
	LTE Band 48	20M	QPSK	1	49	-	Top side	0mm	Ant 8	DSI 6	56640	3690	21.24	21.70	1.112	62.9	1.006	0.15	1.500	1.678
	LTE Band 48C	20M	QPSK	1	0	-	Top side	0mm	Ant 8	DSI 6	56640+ 56442	3690+ 3670.2	20.84	21.70	1.219	62.9	1.006	0.12	1.310	1.606
	LTE Band 48_Other PA	20M	QPSK	1	49	-	Top side	0mm	Ant 8	DSI 6	56640	3690	20.20	21.70	1.413	62.9	1.006	-0.08	1.150	1.634
	LTE Band 48	20M	QPSK	1	49	-	Back	15mm	Ant 8	DSI 4	55340	3560	23.45	24.00	1.135	62.9	1.006	-0.06	0.342	0.391
	LTE Band 48	20M	QPSK	1	49	-	Top side	12mm	Ant 8	DSI 4	55340	3560	23.45	24.00	1.135	62.9	1.006	0.06	0.394	0.450
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 8	DSI 6	55340	3560	21.44	21.70	1.062	62.9	1.006	0.16	0.812	0.867
	LTE Band 48	20M	QPSK	50	0	-	Top side	0mm	Ant 8	DSI 6	55340	3560	21.44	21.70	1.062	62.9	1.006	0.18	0.941	1.005
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	0mm	Ant 4	DSI 6	641666	3624.99	17.31	18.00	1.172	-	-	-0.14	0.416	0.488
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6	641666	3624.99	17.31	18.00	1.172	-	-	-0.08	1.480	1.735
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6	638000	3570	17.27	18.00	1.183	-	-	0.14	1.410	1.668
117	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6	645332	3679.98	17.21	18.00	1.199	-	-	-0.18	1.540	1.847
	FR1 n48	40M	QPSK	1	1	DFT-30	Left side	0mm	Ant 4	DSI 6	641666	3624.99	17.31	18.00	1.172	-	-	0.09	1.390	1.629



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	FR1 n48	40M	QPSK	1	1	DFT-30	Left side	0mm	Ant 4	DSI 6	638000	3570	17.27	18.00	1.183	-	-	-0.1	1.400	1.656
	FR1 n48	40M	QPSK	1	1	DFT-30	Left side	0mm	Ant 4	DSI 6	645332	3679.98	17.21	18.00	1.199	-	-	0.15	1.360	1.631
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	4mm	Ant 4	DSI 4	641666	3624.99	23.25	24.00	1.189	-	-	-0.14	0.609	0.724
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	12mm	Ant 4	DSI 4	645332	3679.98	23.17	24.00	1.211	-	-	-0.08	0.461	0.558
	FR1 n48	40M	QPSK	1	1	DFT-30	Left side	7mm	Ant 4	DSI 4	638000	3570	23.19	24.00	1.205	-	-	0.14	1.220	1.470
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	0mm	Ant 4	DSI 6	641666	3624.99	17.28	18.00	1.180	-	-	0.03	0.397	0.469
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 4	DSI 6	641666	3624.99	17.28	18.00	1.180	-	-	0.16	1.410	1.664
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 4	DSI 6	638000	3570	17.25	18.00	1.189	-	-	0.18	1.350	1.604
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 4	DSI 6	645332	3679.98	17.20	18.00	1.202	-	-	-0.08	1.470	1.767
	FR1 n48	40M	QPSK	50	28	DFT-30	Left side	0mm	Ant 4	DSI 6	641666	3624.99	17.28	18.00	1.180	-	-	-0.09	1.330	1.570
	FR1 n48	40M	QPSK	50	28	DFT-30	Left side	0mm	Ant 4	DSI 6	638000	3570	17.25	18.00	1.189	-	-	-0.04	1.340	1.593
	FR1 n48	40M	QPSK	50	28	DFT-30	Left side	0mm	Ant 4	DSI 6	645332	3679.98	17.20	18.00	1.202	-	-	0.09	1.300	1.563
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	0mm	Ant 4	DSI 6	641666	3624.99	17.24	18.00	1.191	-	-	-0.01	1.310	1.561
	FR1 n48	40M	QPSK	100	0	DFT-30	Left side	0mm	Ant 4	DSI 6	641666	3624.99	17.24	18.00	1.191	-	-	0.18	1.280	1.525
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	DSI 6	638000	3570	21.27	22.50	1.327	-	-	0.09	1.080	1.434
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	DSI 6	641666	3624.99	21.10	22.50	1.380	-	-	-0.1	1.250	1.725
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	DSI 6	645332	3679.98	20.97	22.50	1.422	-	-	0.15	1.160	1.650
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 4	641666	3624.99	22.55	24.00	1.396	-	-	-0.09	0.172	0.240
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 7	DSI 6	638000	3570	21.26	22.50	1.330	-	-	0.03	1.030	1.370
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	0mm	Ant 7	DSI 6	638000	3570	21.20	22.50	1.349	-	-	0.18	1.010	1.362
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	DSI 6	641666	3624.99	15.08	16.00	1.236	-	-	-0.05	0.913	1.128
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	DSI 6	638000	3570	15.05	16.00	1.245	-	-	0.19	0.949	1.181
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	DSI 6	645332	3679.98	15.01	16.00	1.256	-	-	0	0.908	1.140
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	638000	3570	23.08	24.00	1.236	-	-	-0.13	0.306	0.378
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 10	DSI 6	641666	3624.99	15.07	16.00	1.239	-	-	0.15	0.872	1.080
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 6	641666	3624.99	19.21	20.50	1.346	-	-	0.18	0.802	1.079
	FR1 n48	40M	QPSK	1	1	DFT-30	Top side	0mm	Ant 8	DSI 6	641666	3624.99	19.21	20.50	1.346	-	-	-0.09	1.190	1.602
	FR1 n48	40M	QPSK	1	1	DFT-30	Top side	0mm	Ant 8	DSI 6	638000	3570	19.19	20.50	1.352	-	-	-0.08	1.160	1.568
	FR1 n48	40M	QPSK	1	1	DFT-30	Top side	0mm	Ant 8	DSI 6	645332	3679.98	18.97	20.50	1.422	-	-	-0.02	1.180	1.678
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 4	641666	3624.99	22.72	24.00	1.343	-	-	0.11	0.267	0.359
	FR1 n48	40M	QPSK	1	1	DFT-30	Top side	12mm	Ant 8	DSI 4	645332	3679.98	22.39	24.00	1.449	-	-	-0.05	0.324	0.469
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 8	DSI 6	641666	3624.99	19.19	20.50	1.352	-	-	0.01	0.766	1.036
	FR1 n48	40M	QPSK	50	28	DFT-30	Top side	0mm	Ant 8	DSI 6	641666	3624.99	19.19	20.50	1.352	-	-	0.19	1.040	1.406
	FR1 n48	40M	QPSK	100	0	DFT-30	Top side	0mm	Ant 8	DSI 6	641666	3624.99	19.17	20.50	1.358	-	-	-0.14	1.120	1.521
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6	633332	3499.98	17.74	18.50	1.191	-	-	-0.04	1.520	1.819
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6	633332	3499.98	17.19	18.50	1.352	-	-	0.18	1.290	1.744
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Left side	0mm	Ant 4	DSI 6	633332	3499.98	17.74	18.50	1.191	-	-	0.09	1.320	1.580
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	12mm	Ant 4	DSI 4	633332	3499.98	26.20	27.00	1.202	-	-	0	0.565	1.819
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Left side	7mm	Ant 4	DSI 4	633332	3499.98	26.20	27.00	1.202	-	-	-0.1	1.480	1.779
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6	633332	3499.98	17.72	18.50	1.197	-	-	-0.01	1.450	1.735
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Left side	0mm	Ant 4	DSI 6	633332	3499.98	17.72	18.50	1.197	-	-	0.11	1.260	1.508
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6	656000	3840	17.87	18.50	1.156	-	-	-0.08	1.490	1.723
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Left side	0mm	Ant 4	DSI 6	656000	3840	17.87	18.50	1.156	-	-	0.14	1.300	1.503
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6	656000	3840	17.86	18.50	1.159	-	-	0.09	1.420	1.645
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Left side	0mm	Ant 4	DSI 6	656000	3840	17.86	18.50	1.159	-	-	-0.1	1.240	1.437
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 4	DSI 6	656000	3840	17.84	18.50	1.164	-	-	-0.08	1.390	1.618
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-30	Left side	0mm	Ant 4	DSI 6	656000	3840	17.84	18.50	1.164	-	-	0.03	1.210	1.409
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	DSI 6	633332	3499.98	21.49	22.50	1.262	-	-	-0.02	1.220	1.539
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 7	DSI 6	633332	3499.98	21.47	22.50	1.268	-	-	0.01	1.120	1.420
118	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	DSI 6	656000	3840	21.60	22.50	1.230	-	-	0.18	1.600	1.968
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	DSI 6	656000	3840	21.76	22.50	1.186	-	-	-0.08	1.520	1.802
	FR1 n77 HPUE_Other PA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 4	656000	3840	26.01	27.00	1.256	-	-	0.02	0.406	0.510
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 7	DSI 6	656000	3840	21.54	22.50	1.247	-	-	-0.04	1.510	1.884
	FR1 n77 HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 7	DSI 6	656000	3840	21.52	22.50	1.253	-	-	-0.09	1.480	1.855
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	DSI 6	633332	3499.98	15.15	16.00	1.216	-	-	0.19	0.991	1.205
	FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 10	DSI 6	633332	3499.98	15.14	16.00	1.219	-	-	0.02	0.925	1.128
	FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	DSI 6	656000	3840	14.80	16.00	1.318	-	-	-0.08	0.856	1.128



FR1 n77 HUPE _Other PA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	DSI 6	656000	3840	14.38	16.00	1.452	-	-	0.03	0.915	1.329
FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	656000	3840	26.15	27.00	1.216	-	-	0.16	0.850	1.034
FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 10	DSI 6	656000	3840	14.79	16.00	1.321	-	-	0.09	0.817	1.079
FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 6	633332	3499.98	18.41	19.50	1.285	-	-	0	0.411	0.528
FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Top side	0mm	Ant 8	DSI 6	633332	3499.98	18.41	19.50	1.285	-	-	0.02	0.358	0.460
FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 6	633332	3499.98	18.40	19.50	1.288	-	-	-0.14	0.559	0.720
FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Top side	0mm	Ant 8	DSI 6	633332	3499.98	18.40	19.50	1.288	-	-	-0.08	0.522	0.672
FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 6	656000	3840	18.00	19.50	1.413	-	-	0.18	1.120	1.582
FR1 n77 HPUE	100M	QPSK	1	1	DFT-30	Top side	0mm	Ant 8	DSI 6	656000	3840	18.00	19.50	1.413	-	-	0.11	1.220	1.723
FR1 n77 HUPE _Other PA	100M	QPSK	1	1	DFT-30	Top side	0mm	Ant 8	DSI 6	656000	3840	18.30	19.50	1.318	-	-	0.01	1.260	1.661
FR1 n77 HUPE _Other PA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 4	656000	3840	23.82	25.00	1.312	-	-	0.17	0.514	0.674
FR1 n77 HUPE _Other PA	100M	QPSK	1	1	DFT-30	Top side	12mm	Ant 8	DSI 4	656000	3840	23.82	25.00	1.312	-	-	0.14	0.417	0.547
FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 6	656000	3840	17.99	19.50	1.416	-	-	-0.08	1.070	1.515
FR1 n77 HPUE	100M	QPSK	135	69	DFT-30	Top side	0mm	Ant 8	DSI 6	656000	3840	17.99	19.50	1.416	-	-	-0.02	1.170	1.656
FR1 n77 HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 8	DSI 6	656000	3840	17.97	19.50	1.422	-	-	0.01	1.040	1.479
FR1 n77 HPUE	100M	QPSK	270	0	DFT-30	Top side	0mm	Ant 8	DSI 6	656000	3840	17.97	19.50	1.422	-	-	0.12	1.130	1.607

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 3+5(5)	Standalone	6	2437	20.00	22.00	1.585	100	1.000	-0.08	1.180	1.870
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 3+5(5)	Standalone	6	2437	20.00	22.00	1.585	100	1.000	-0.09	1.100	1.743
	WLAN2.4GHz	802.11b 1Mbps	Right side	0mm	Ant 3+5(5)	Standalone	6	2437	20.00	22.00	1.585	100	1.000	-0.04	0.946	1.499
120	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 3+5(5)	Standalone	1	2412	20.00	22.00	1.585	100	1.000	0.09	1.280	2.029
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 3+5(5)	Standalone	11	2462	19.50	21.50	1.585	100	1.000	-0.09	1.080	1.712
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 3+5(5)	Simultaneous	6	2437	17.60	19.50	1.549	100	1.000	0.18	0.668	1.035
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 3+5(5)	Simultaneous	6	2437	17.60	19.50	1.549	100	1.000	0.11	0.586	0.908
	WLAN2.4GHz	802.11b 1Mbps	Right side	0mm	Ant 3+5(5)	Simultaneous	6	2437	17.60	19.50	1.549	100	1.000	0.01	0.488	0.756
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 3+5(5)	Simultaneous	1	2412	17.50	19.50	1.585	100	1.000	-0.09	0.653	1.035
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 3+5(5)	Simultaneous	11	2462	17.50	19.50	1.585	100	1.000	-0.08	0.642	1.018
5000MHz																
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 7+5(7)	Standalone	58	5290	17.60	19.50	1.549	100	1.000	-0.18	0.198	0.307
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+5(7)	Standalone	58	5290	17.60	19.50	1.549	100	1.000	0.09	0.586	0.908
121	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right side	0mm	Ant 7+5(7)	Standalone	58	5290	17.60	19.50	1.549	100	1.000	-0.08	0.642	0.994
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top side	0mm	Ant 7+5(7)	Standalone	58	5290	17.60	19.50	1.549	100	1.000	0.15	0.303	0.469
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 7+5(5)	Standalone	106	5530	17.75	19.50	1.496	100	1.000	0.01	0.324	0.485
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+5(5)	Standalone	106	5530	17.75	19.50	1.496	100	1.000	-0.09	0.988	1.478
122	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right side	0mm	Ant 7+5(5)	Standalone	106	5530	17.75	19.50	1.496	100	1.000	-0.08	1.330	1.990
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top side	0mm	Ant 7+5(5)	Standalone	106	5530	17.75	19.50	1.496	100	1.000	-0.02	0.307	0.459
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 7+5(5)	Simultaneous	106	5530	14.77	16.50	1.489	100	1.000	0.01	0.186	0.277
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+5(5)	Simultaneous	106	5530	14.77	16.50	1.489	100	1.000	0.12	0.566	0.843
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right side	0mm	Ant 7+5(5)	Simultaneous	106	5530	14.77	16.50	1.489	100	1.000	-0.05	0.665	0.990
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top side	0mm	Ant 7+5(5)	Simultaneous	106	5530	14.77	16.50	1.489	100	1.000	0.19	0.176	0.262
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+5(5)	Standalone	155	5775	17.32	19.00	1.472	100	1.000	-0.18	0.911	1.341
123	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right side	0mm	Ant 7+5(5)	Standalone	155	5775	17.32	19.00	1.472	100	1.000	0.09	2.000	2.945
	WLAN5.8GHz	802.11a 6Mbps	Back	15mm	Ant 7+5(5)	Standalone	149	5745	18.57	20.00	1.390	100	1.000	0.06	0.134	0.186
	WLAN5.8GHz	802.11a 6Mbps	Right side	8mm	Ant 7+5(5)	Standalone	149	5745	18.57	20.00	1.390	100	1.000	-0.13	0.613	0.852
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+5	Simultaneous	155	5775	12.29	14.00	1.483	100	1.000	0.15	0.295	0.437
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right side	0mm	Ant 7+5	Simultaneous	155	5775	12.29	14.00	1.483	100	1.000	-0.08	0.629	0.933



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	LTE Band 13	10M	QPSK	1	25	-	Back	5mm	Ant 0	DSI 7	23230	782	22.89	24.00	1.291	-	-	0.03	0.897	1	1.158
2nd	LTE Band 13	10M	QPSK	1	25	-	Back	5mm	Ant 0	DSI 7	23230	782	22.89	24.00	1.291	-	-	0.06	0.874	1.026	1.129
1st	LTE Band 26	15M	QPSK	1	37	-	Back	5mm	Ant 0	DSI 7	26965	841.5	22.62	24.00	1.374	-	-	0.11	0.888	1	1.220
2nd	LTE Band 26	15M	QPSK	1	37	-	Back	5mm	Ant 0	DSI 7	26965	841.5	22.62	24.00	1.374	-	-	0.04	0.862	1.030	1.184
1st	LTE Band 30	10M	QPSK	1	25	-	Right side	5mm	Ant 9	DSI 7	27710	2310	21.49	22.10	1.151	-	-	-0.09	1.110	1	1.277
2nd	LTE Band 30	10M	QPSK	1	25	-	Right side	5mm	Ant 9	DSI 7	27710	2310	21.49	22.10	1.151	-	-	0.1	1.080	1.028	1.243
1st	LTE Band 66	20M	QPSK	1	49	-	Back	5mm	Ant 0	DSI 3	132322	1745	17.34	18.40	1.276	-	-	0.02	0.962	1	1.228
2nd	LTE Band 66	20M	QPSK	1	49	-	Back	5mm	Ant 0	DSI 3	132322	1745	17.34	18.40	1.276	-	-	0.01	0.934	1.030	1.192
1st	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI 3	376500	1882.5	17.46	18.00	1.132	-	-	-0.12	1.040	1	1.178
2nd	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI 3	376500	1882.5	17.46	18.00	1.132	-	-	-0.08	1.010	1.030	1.144
1st	LTE Band 7	20M	QPSK	1	49	-	Back	5mm	Ant 9	DSI 3	21350	2560	19.13	19.90	1.194	-	-	0.14	1.060	1	1.266
2nd	LTE Band 7	20M	QPSK	1	49	-	Back	5mm	Ant 9	DSI 3	21350	2560	19.13	19.90	1.194	-	-	-0.02	1.030	1.029	1.230
1st	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 7+5(5)	Standalone	155	5775	13.78	15.50	1.486	100	1.000	0.13	0.803	1	1.193
2nd	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 7+5(5)	Standalone	155	5775	13.78	15.50	1.486	100	1.000	-0.08	0.779	1.031	1.158

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	LTE Band 66	20M	QPSK	1	49	-	Back	0mm	Ant 0	DSI 6	132322	1745	21.28	21.90	1.153	-	-	-0.04	2.360	1	2.722
2nd	LTE Band 66	20M	QPSK	1	49	-	Back	0mm	Ant 0	DSI 6	132322	1745	21.28	21.90	1.153	-	-	0.18	2.290	1.031	2.641
1st	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	810	1909.8	24.81	25.80	1.256	-	-	0.15	2.140	1	2.688
2nd	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	810	1909.8	24.81	25.80	1.256	-	-	0.11	2.080	1.029	2.613
1st	LTE Band 30	10M	QPSK	1	25	-	Right side	0mm	Ant 9	DSI 6	27710	2310	21.03	22.00	1.250	-	-	0.12	2.540	1	3.176
2nd	LTE Band 30	10M	QPSK	1	25	-	Right side	0mm	Ant 9	DSI 6	27710	2310	21.03	22.00	1.250	-	-	0.17	2.470	1.028	3.088
1st	LTE Band 7	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	21350	2560	19.19	20.00	1.205	-	-	0.11	2.630	1	3.169
2nd	LTE Band 7	20M	QPSK	1	49	-	Right side	0mm	Ant 9	DSI 6	21350	2560	19.19	20.00	1.205	-	-	0.17	2.550	1.031	3.073
1st	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right side	0mm	Ant 7+5(5)	-	155	5775	17.32	19.00	1.472	100	1.000	0.09	2.000	1	2.945
2nd	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right side	0mm	Ant 7+5(5)	-	155	5775	17.32	19.00	1.472	100	1.000	0.05	1.940	1.031	2.856

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8W/kg$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45W/kg$, only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16.6 TDD LTE Linearity Data Analysis

General Note:

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

LTE Band 41(HPUE)-Linearity Data for DSI2-ANT9			LTE Band 41(HPUE)-Linearity Data for DSI3-ANT9		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	20.50	22.10
Reported 1g SAR (W/kg)	0.282	0.364	Reported 1g SAR (W/kg)	1.198	1.115
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	71.02	70.22
Linearity SAR (W/kg)	0.385		Linearity SAR (W/kg)	1.185	
% deviation from expected linearity		-5.43%	% deviation from expected linearity		-5.87%
LTE Band 41(HPUE)-Linearity Data for DSI2-ANT1			LTE Band 41(HPUE)-Linearity Data for DSI3-ANT1		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	17.10	18.70	Maximum Tune up Power (dBm)	19.10	20.70
Reported 1g SAR (W/kg)	0.553	0.525	Reported 1g SAR (W/kg)	0.840	0.812
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	32.46	32.10	Frame Averaged (mW)	51.45	50.87
Linearity SAR (W/kg)	0.547		Linearity SAR (W/kg)	0.831	
% deviation from expected linearity		-3.98%	% deviation from expected linearity		-2.23%
LTE Band 41(HPUE)-Linearity Data for DSI2-ANT2			LTE Band 41(HPUE)-Linearity Data for DSI3-ANT2		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.241	0.307	Reported 1g SAR (W/kg)	0.904	1.137
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	0.329		Linearity SAR (W/kg)	1.234	
% deviation from expected linearity		-6.67%	% deviation from expected linearity		-7.85%
LTE Band 41(HPUE)-Linearity Data for DSI2-ANT6			LTE Band 41(HPUE)-Linearity Data for DSI3-ANT6		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	25.10	Maximum Tune up Power (dBm)	23.50	25.10
Reported 1g SAR (W/kg)	0.582	0.607	Reported 1g SAR (W/kg)	0.578	0.578
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	140.12	Frame Averaged (mW)	141.71	140.12
Linearity SAR (W/kg)	0.575		Linearity SAR (W/kg)	0.571	
% deviation from expected linearity		5.48%	% deviation from expected linearity		1.14%



LTE Band 41(HPUE)-Linearity Data for DSI6-ANT9			LTE Band 41(HPUE)-Linearity Data for DSI7-ANT9		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	25.60	Maximum Tune up Power (dBm)	18.00	19.60
Reported 10g SAR (W/kg)	3.053	2.791	Reported 1g SAR (W/kg)	1.165	1.065
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	157.21	Frame Averaged (mW)	39.94	39.49
Linearity SAR (W/kg)	3.019		Linearity SAR (W/kg)	1.152	
% deviation from expected linearity		-7.54%	% deviation from expected linearity		-7.54%
LTE Band 41(HPUE)-Linearity Data for DSI6-ANT1			LTE Band 41(HPUE)-Linearity Data for DSI7-ANT1		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	21.10	22.70	Maximum Tune up Power (dBm)	17.60	19.20
Reported 10g SAR (W/kg)	1.675	1.552	Reported 1g SAR (W/kg)	0.549	0.514
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	81.55	80.63	Frame Averaged (mW)	36.43	36.02
Linearity SAR (W/kg)	1.656		Linearity SAR (W/kg)	0.543	
% deviation from expected linearity		-6.29%	% deviation from expected linearity		-5.31%
LTE Band 41(HPUE)-Linearity Data for DSI6-ANT2			LTE Band 41(HPUE)-Linearity Data for DSI7-ANT2		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	23.50	25.10
Reported 10g SAR (W/kg)	2.154	2.656	Reported 1g SAR (W/kg)	0.918	0.891
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	141.71	140.12
Linearity SAR (W/kg)	2.940		Linearity SAR (W/kg)	0.908	
% deviation from expected linearity		-9.66%	% deviation from expected linearity		-1.84%
LTE Band 41(HPUE)-Linearity Data for DSI6-ANT6			LTE Band 41(HPUE)-Linearity Data for DSI7-ANT6		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	22.30	23.90	Maximum Tune up Power (dBm)	18.30	19.90
Reported 10g SAR (W/kg)	1.306	1.289	Reported 1g SAR (W/kg)	0.582	0.556
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	107.50	106.29	Frame Averaged (mW)	42.80	42.31
Linearity SAR (W/kg)	1.291		Linearity SAR (W/kg)	0.575	
% deviation from expected linearity		-0.18%	% deviation from expected linearity		-3.38%

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.	WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
6.	WLAN6GHz+ Bluetooth	Yes	Yes	Yes	Yes
7.	WWAN + WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
8.	WWAN + WLAN6GHz+ Bluetooth	Yes	Yes	Yes	Yes
9.	WWAN + WLAN2.4GHz+ NFC				Yes
10.	WWAN + WLAN5GHz+ NFC				Yes
11.	WWAN + WLAN6GHz+ NFC				Yes
12.	WWAN + Bluetooth+ NFC				Yes
13.	WLAN5GHz+ Bluetooth+ NFC				Yes
14.	WLAN6GHz+ Bluetooth+ NFC				Yes
15.	WWAN + WLAN5GHz+ Bluetooth+ NFC				Yes
16.	WWAN + WLAN6GHz+ Bluetooth+ NFC				Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- 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). WLAN6GHz has no hotspot function.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- 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't transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
- According to the EUT characteristic, WLAN 2.4GHz and Bluetooth cannot transmit simultaneously.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
- For distance SAR and non-distance SAR always chose higher SAR to do co-located analysis.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for head each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
- For co-located SAR with WWAN/Bluetooth, always chose higher SAR among WLAN5GHz U-NII-1/2A/2C/3 and WLAN 6GHz U-NII-5/6/7/8, it is the worst co-located analysis and can represent each WLAN5GHz bands and each WLAN6GHz bands.
- The maximum SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{separation distance, mm})$, 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.
 - 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 17.8.
19. The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results. The simultaneous transmission and test exemption analysis were compliant with KDB 447498 D01. For the device does not support FR2 or other MPE field measurement, therefore section 17 in the SAR report has no TER analysis according to KDB 987594 requirement.

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.

17.2 MIMO SAR Test condition and verification

General Note:

1. For WWAN radios, Smart Transmit EFS v20 (or lower) uses SISO P_{limit} to calculate RF exposure from MIMO transmission scenario. Therefore, if MIMO is supported for WWAN technologies (including 5G sub6 NR), below procedure should be performed for validity of Smart Transmit operation:
 1. Below procedure should also be performed for Smart Transmit EFS v21 (or higher) if MIMO P_{limit} is not populated in the EFS but MIMO operation is supported for antennas belonging to the same antenna group (refer to Section 4.2.5 of Qualcomm's document 80-W2112-4).
2. Measure SAR for supported MIMO scenarios in FTM mode with each of the MIMO antennas set to transmit continuously at P_{test} = minimum {P_{limit}(i), P_{max}(i); i=1 to n MIMO antennas}, where P_{limit}(i) is the power level entered in the Smart Transmit EFS for antenna i under the corresponding tech/band/DSI. For Smart Transmit to ensure the compliance in MIMO transmission scenario, the below criteria should be met for measured MIMO SAR (i.e., highest peak spatial-average SAR from the measurement):

$$\text{reported SAR}_{MIMO} = \text{Measured MIMO SAR}_{MIMO} \text{ at } (P_{test} + \text{device total uncertainty}) \leq \text{calc. SAR}$$

$$\text{Where } \text{calc. SAR} = \sum_{i=1}^n \left[\text{SAR}_{design_target} * 10^{\left(\frac{\text{total uncertainty} + P_{test} - P_{limit}(i) - \text{backoff}(i)}{10} \right)} \right]$$

Here,

- n is number of MIMO antennas (in case of 2x2MIMO, n=2).
 - P_{limit}(i) is EFS P_{limit} for antenna i ∈ MIMO for a given tech/band/DSI. P_{limit} corresponds to SAR_{design_target}.
 - backoff(i) is backoff from SAR_{design_target} used for the ith antenna's P_{limit} to meet TER with external radios (i.e., radios outside of Smart Transmit control). If EFS P_{limit} of antenna i corresponds to SAR_{design_target}, then backoff(i) = 0 in the above equation.
 - P_{test} (i.e., power level used for MIMO SAR measurement, MIMO.SAR @P_{test}) = min {P_{limit}(i), P_{max}(i), i = 1 to n MIMO antenna}. To further clarify, P_{test} = min {P_{limit}(i), SISO.P_{max}(i), MIMO.P_{max}, i = 1 to n antenna ∈ MIMO}, where, P_{limit} corresponds to SAR_{design_target}; SISO.P_{max} and MIMO.P_{max} correspond to the maximum output power (nominal levels without device uncertainty) that device is capable; here, P_{test} is nominal power level, not measured level.
3. If the reported SAR_{MIMO} does not meet the above condition, then P_{limit}(i) for each of the MIMO antenna in the Smart Transmit EFS should be reduced by 10*log₁₀[reported SAR_{MIMO} /calc.SAR] dB.
 4. This test is not needed if MIMO antennas are in different AGs.
 5. The detail analysis results please referred to appendix H.

17.3 Sub6 Antenna Groups

The 2nd generation of Smart Transmit (GEN2) operates based on pre-defined sub6 antenna groups (AG). Sub6 Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating below conditions for all exposure positions under each DSI for a given exposure category.

- 1) Case 1: Sum of SAR of one antenna from each of the sub6 AGs and the RF exposure from radios outside Smart Transmit is less than regulatory limits for each supported DSI. This condition must be demonstrated for all antenna combinations of sub6 AGs.
 - i. For a given DSI, obtain the highest *reported* SAR for each antenna out of all supported technologies and frequency bands. Obtain the maximum *reported* SAR for each AG by taking the maximum out of *reported* SAR for all antennas belonging to each AG.
 - ii. Demonstrate that the sum of maximum reported SAR (normalized to regulatory limit) from each of the sub6 AGs and the sum of reported SAR (normalized to regulatory limit) from all supported radios outside of Smart Transmit should be less than 1.0
- 2) Case 2: If the Case 1 is NOT met, then for a given antenna grouping scheme plus external radios/antennas (ERs) (referred to as 'configuration'), demonstrate all AG pairs, all ER pairs and all (AG, ER) pairs in the configuration meet SPLSR criteria (Section 4.3.2 (c) in FCC KDB 447498 D01 v06) for each exposure position under each supported DSI. For a given exposure position under a given DSI, prove all AG pairs, all ER pairs and all (AG, ER) pairs (if there are external radios outside Smart Transmit) in the configuration meet SPLSR.
- 3) Case 3: When One or more antenna(s) can be placed as shared antenna(s) among multiple AGs as described in this Section. Repeat the same procedure to check if the new antenna grouping scheme (using shared antenna) with all supported external radios meets Case 1 or Case 2 so that each AG in the new antenna grouping scheme can operate independently.
 - a) For antenna grouping, only Case 1 or Case 2 (not both) needs to be met for each exposure position of all supported DSIs under a given exposure category. To further clarify, only one of the two conditions (either Case 1 or Case 2) should be used for a given exposure position to demonstrate RF exposure is mutually exclusive among all antenna groups (including external radios). In other words, a combination of Case 1 and Case 2 CANNOT be used for a given exposure position, i.e., mutual exclusivity between AGs CANNOT be demonstrated by using Case 1 for some antenna combinations and using Case 2 for remaining antenna combinations.
 - b) New antenna grouping analysis with one or more antenna(s) as a shared antenna (sAnt). AG0, AG1 and WLAN must be demonstrated to transmit independently with a shared antenna (sAnt) configured in AG0/AG1. The TER for simultaneous analysis for sub6 radios should be given by the sum of these RF exposures meets (i) and (ii) :
 - i. $\{ [\text{max.SAR.without.sAnt.AG0} + \text{max.SAR.without.sAnt.AG1}] + \text{WIFI/BT worst-case reported SAR} \} \leq 1.6$ (for 1g, or 4.0 for 10g).
 - ii. $\{ [\text{max.SAR.sAnt}] + \text{WIFI/BT worst-case reported SAR} \} \leq 1.6$ (for 1g, or 4.0 for 10g).
 - c) For a given exposure position under a given DSI, prove all AG pairs, all ER pairs and all (AG, ER) pairs (if there are external radios outside Smart Transmit) in the configuration meet SPLSR.

This device supports two sub6 AG: AG0 and AG1, the detailed please refer to the below table:

Antenna Group 0 (AG0)	ANT0 & ANT2 & ANT9
Antenna Group 1 (AG1)	ANT1 & ANT6 & ANT4 & ANT7 & ANT8 & ANT10 & ANT9

Note: Ant9 as shared antennas (sAnt) among AG0 and AG1.

The conditions are verified through the following criterias:

i) (SAR1 + SAR2 criteria): If SPLSR criteria is not used, then the highest reported SAR at *Plimit* for each antenna should be obtained out of all supported technologies and frequency bands for each DSI. Demonstrate that the sum of reported SAR of one antenna from each of the sub6 AGs and the sum of RF exposure from all supported radios outside of Smart Transmit should be less than the regulatory limit as given below for each DSI.

1. Obtain the worst-case reported SAR for each antenna group (i.e., maximum *reported* SAR at *Plimit* out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure for each external radio, and demonstrate that the sum of these RF exposures meets: { [max.SAR.AG0+ max.SAR.AG1] + WIFI/BT worst-case reported SAR} \leq 1.6 (for 1g, or 4.0 for 10g). (WIFI/BT worst-case reported SAR is the worst SAR in all combinations of WIFI and BT simultaneous transmission)

ii) (SPLSR criteria): For each antenna, obtain the highest reported SAR value at *Plimit* out of all supported technologies for each frequency band. Using these values, demonstrate for a given DSI that every antenna from one sub6 AG meets SPLSR criteria with every antenna in another sub6 AG for all frequency bands. This criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios as given below for each DSI:

b. SPLSR criteria should be met for all antenna pair combinations of AG0 and AG1. As it can be seen, these include all combinations of antenna groups, antennas, and frequency bands.

c. Obtain combined SAR per AG: Obtain the worst-case conservative combined SAR and its peak location for each AG.

d. Use the 'closest' peak location out of all antennas of AGj to evaluate SPLSR with other AGs in the configuration. Note, by 'closest', select the peak location out of all antennas (ϵ AGj) that is closest to the peak location of other AG where SPLSR is evaluated.

iii) (combination of SPLSR & SAR1+SAR2 criteria): If SPLSR criteria for all the combinations of sub6 antenna groups in (i) is demonstrated to show that each AG is mutually exclusive from other AGs, and if the WIFI/BT antennas supported outside of Smart Transmit do not meet SPLSR criteria, then the condition in (ii) reduces to: {max.SAR.AG0 + worst-case reported SAR} \leq 1.6 and {max.SAR.AG1+ worst-case reported SAR } \leq 1.6 for compliance demonstration (for 1g, or 4.0 for 10g).

For summed SAR results and SPLSR detailed analysis, please refer to section 17.4 / 17.5 / 17.6 /17.7/17.8 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

17.4 Head Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.
Simultaneous Transmission Evaluation of WWAN+WLAN+BT:
<AG0 maximum report SAR>:

Test Position	Ant 0	Ant 2	All Antenna MAX SAR 1g W/kg
Right Cheek	0.343	0.203	0.343
Right Tilted	0.202	0.148	0.202
Left Cheek	0.277	0.307	0.307
Left Tilted	0.181	0.099	0.181

<AG1 maximum report SAR>:

Test Position	Ant 1	Ant 6	Ant 4	Ant 7	Ant 10	Ant 8	All Antenna MAX SAR 1g W/kg
Right Cheek	0.594	0.607	0.880	0.258	0.196	0.303	0.880
Right Tilted	0.596	0.088	0.344	0.271	0.058	0.366	0.596
Left Cheek	0.403	0.522	0.148	0.278	0.258	0.593	0.593
Left Tilted	0.528	0.067	0.134	0.333	0.070	0.591	0.591

<sAnt maximum report SAR>:

Test Position	Ant 9	All Antenna MAX SAR 1g W/kg
Right Cheek	0.572	0.572
Right Tilted	0.219	0.219
Left Cheek	0.311	0.311
Left Tilted	0.197	0.197

<WLAN+BT Worse-case SAR>:

Test Position	1	2	3	4	1+4 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	Wlan/BT worse case
	Bluetooth Ant 3	Bluetooth Ant 5	2.4GWLAN	5G/6GWLAN			
Right Cheek	0.100	0.093	0.173	0.208	0.308	0.301	0.308
Right Tilted	0.080	0.051	0.106	0.215	0.295	0.266	0.295
Left Cheek	0.296	0.263	0.373	0.394	0.690	0.657	0.690
Left Tilted	0.137	0.069	0.212	0.279	0.416	0.348	0.416

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT worse case
Right Cheek	0.880	0.343	0.308	1.53
Right Tilted	0.596	0.202	0.295	1.09
Left Cheek	0.593	0.307	0.690	1.59
Left Tilted	0.591	0.181	0.416	1.19

<Simultaneous Transmission analysis of sAnt + WLAN+BT Worse-case>:

Test Position	share Ant 9	Wlan/BT worse case	share Ant 9+Wlan/BT worse case
Right Cheek	0.572	0.308	0.88
Right Tilted	0.219	0.295	0.51
Left Cheek	0.311	0.690	1.00
Left Tilted	0.197	0.416	0.61

17.5 Hotspot Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.
Simultaneous Transmission Evaluation of WWAN+WLAN+BT:
<AG0 maximum report SAR>:

Test Position	Ant 0	Ant 2	All Antenna MAX SAR 1g W/kg
Front	0.831	0.451	0.831
Back	1.220	0.844	1.220
Left side	0.389	1.048	1.048
Right side	0.452		0.452
Top side	0.000		0.000
Bottom side	1.269	0.258	1.269

<AG1 maximum report SAR>:

Test Position	Ant 1	Ant 6	Ant 4	Ant 7	Ant 10	Ant 8	All Antenna MAX SAR 1g W/kg
Front	0.386	0.331	0.149	0.101	0.087	0.136	0.386
Back	0.613	0.536	0.542	0.611	0.498	0.577	0.613
Left side	0.351	0.582	0.615	0.044	0.089		0.615
Right side	0.000			0.154		0.102	0.154
Top side	0.611		0.074	0.169	0.051	0.551	0.611
Bottom side							0.000

<sAnt maximum report SAR>:

Test Position	Ant 9	All Antenna MAX SAR 1g W/kg
Front	0.259	0.831
Back	0.589	1.220
Left side	0.000	1.048
Right side	1.277	1.277
Top side	0.000	0.000
Bottom side	0.111	1.269

<WLAN+BT Worse-case SAR>:

Test Position	1 Bluetooth Ant 3	2 Bluetooth Ant 5	3 2.4GWLAN	4 5GWLAN	1+4 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	Wlan/BT worse case
Front	0.113	0.127	0.389	0.151	0.264	0.278	0.389
Back	0.191	0.295	0.849	0.618	0.809	0.913	0.913
Left side					0.000	0.000	0.000
Right side	0.113	0.264	0.830	0.680	0.793	0.944	0.944
Top side	0.103	0.031	0.176	0.211	0.314	0.242	0.314
Bottom side					0.000	0.000	0.000

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT worse case
Front	0.386	0.831	0.389	1.61
Back	0.613	1.220	0.913	2.75
Left side	0.615	1.048	0.000	1.66
Right side	0.154	0.452	0.944	1.55
Top side	0.611	0.000	0.314	0.93
Bottom side	0.000	1.269	0.000	1.27

<Simultaneous Transmission analysis of sAnt + WLAN+BT Worse-case>:

Test Position	share Ant 9	Wlan/BT worse case	share Ant 9+Wlan/BT worse case	SPLSR
Front	0.831	0.389	1.22	
Back	1.220	0.913	2.13	Case 48
Left side	1.048	0.000	1.05	
Right side	1.277	0.944	2.22	Case 49
Top side	0.000	0.314	0.31	
Bottom side	1.269	0.000	1.27	

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Front					
Ant,combination	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT worse case	SPLSR
	SAR	SAR			
Ant 1-Ant 0	0.386	0.831	0.389	1.61	Case 1
Ant 6-Ant 0	0.331	0.831	0.389	1.55	
Ant 4-Ant 0	0.149	0.831	0.389	1.37	
Ant 7-Ant 0	0.101	0.831	0.389	1.32	
Ant 10-Ant 0	0.087	0.831	0.389	1.31	
Ant 8-Ant 0	0.136	0.831	0.389	1.36	
Ant 1-Ant 2	0.386	0.451	0.389	1.23	
Ant 6-Ant 2	0.331	0.451	0.389	1.17	
Ant 4-Ant 2	0.149	0.451	0.389	0.99	
Ant 7-Ant 2	0.101	0.451	0.389	0.94	
Ant 10-Ant 2	0.087	0.451	0.389	0.93	
Ant 8-Ant 2	0.136	0.451	0.389	0.98	

Back					
Ant,combination	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT worse case	SPLSR
	SAR	SAR			
Ant 1-Ant 0	0.613	1.220	0.913	2.75	Case 2
Ant 6-Ant 0	0.536	1.220	0.913	2.67	Case 3
Ant 4-Ant 0	0.542	1.220	0.913	2.68	Case 4
Ant 7-Ant 0	0.611	1.220	0.913	2.74	Case 5
Ant 10-Ant 0	0.498	1.220	0.913	2.63	Case 6
Ant 8-Ant 0	0.577	1.220	0.913	2.71	Case 7
Ant 1-Ant 2	0.613	0.844	0.913	2.37	Case 8
Ant 6-Ant 2	0.536	0.844	0.913	2.29	Case 9
Ant 4-Ant 2	0.542	0.844	0.913	2.30	Case 10
Ant 7-Ant 2	0.611	0.844	0.913	2.37	Case 11
Ant 10-Ant 2	0.498	0.844	0.913	2.26	Case 12
Ant 8-Ant 2	0.577	0.844	0.913	2.33	Case 13



Left side					
Ant,combination	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT worse case	SPLSR
	SAR	SAR			
Ant 1-Ant 0	0.351	0.389	0.000	0.74	
Ant 6-Ant 0	0.582	0.389	0.000	0.97	
Ant 4-Ant 0	0.615	0.389	0.000	1.00	
Ant 7-Ant 0	0.044	0.389	0.000	0.43	
Ant 10-Ant 0	0.089	0.389	0.000	0.48	
Ant 8-Ant 0	0.000	0.389	0.000	0.39	
Ant 1-Ant 2	0.351	1.048	0.000	1.40	
Ant 6-Ant 2	0.582	1.048	0.000	1.63	Case 14
Ant 4-Ant 2	0.615	1.048	0.000	1.66	Case 15
Ant 7-Ant 2	0.044	1.048	0.000	1.09	
Ant 10-Ant 2	0.089	1.048	0.000	1.14	
Ant 8-Ant 2	0.000	1.048	0.000	1.05	

17.6 Body-Worn Accessory Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.
Simultaneous Transmission Evaluation of WWAN+WLAN+BT:
<AG0 maximum report SAR>:

Test Position	Ant 0	Ant 2	All Antenna MAX SAR 1g W/kg
Front	1.093	0.553	1.093
Back	1.279	1.137	1.279

<AG1 maximum report SAR>:

Test Position	Ant 1	Ant 6	Ant 4	Ant 7	Ant 10	Ant 8	All Antenna MAX SAR 1g W/kg
Front	0.805	0.463	0.257	0.142	0.607	0.215	0.805
Back	0.884	0.578	0.880	0.885	0.685	0.786	0.885

<Share Ant maximum report SAR>:

Test Position	Ant 9	All Antenna MAX SAR 1g W/kg
Front	0.540	0.540
Back	1.266	1.266

<WLAN+BT Worse-case SAR>:

Test Position	1 Bluetooth Ant 3	2 Bluetooth Ant 5	3 2.4GWLAN	4 5G/6GWLAN	1+4 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	Wlan/BT worse case
Front	0.113	0.127	0.314	0.107	0.220	0.234	0.314
Back	0.191	0.295	0.694	0.390	0.581	0.685	0.694

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT worse case
Front	0.805	1.093	0.314	2.21
Back	0.885	1.279	0.694	2.86

<Simultaneous Transmission analysis of sAnt + WLAN+BT Worse-case>:

Test Position	share Ant 9	Wlan/BT worse case	share Ant 9+Wlan/BT worse case	SPLSR
Front	0.540	0.314	0.85	
Back	1.266	0.694	1.96	Case 51

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.



Front					
Ant,combination	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT worse case	SPLSR
	SAR	SAR			
Ant 1-Ant 0	0.805	1.093	0.314	2.21	Case 30
Ant 6-Ant 0	0.463	1.093	0.314	1.87	Case 31
Ant 4-Ant 0	0.257	1.093	0.314	1.66	Case 32
Ant 7-Ant 0	0.142	1.093	0.314	1.55	
Ant 10-Ant 0	0.607	1.093	0.314	2.01	Case 33
Ant 8-Ant 0	0.215	1.093	0.314	1.62	Case 34
Ant 1-Ant 2	0.805	0.553	0.314	1.67	Case 35
Ant 6-Ant 2	0.463	0.553	0.314	1.33	
Ant 4-Ant 2	0.257	0.553	0.314	1.12	
Ant 7-Ant 2	0.142	0.553	0.314	1.01	
Ant 10-Ant 2	0.607	0.553	0.314	1.47	
Ant 8-Ant 2	0.215	0.553	0.314	1.08	

Back					
Ant,combination	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT worse case	SPLSR
	SAR	SAR			
Ant 1-Ant 0	0.884	1.279	0.694	2.86	Case 36
Ant 6-Ant 0	0.578	1.279	0.694	2.55	Case 37
Ant 4-Ant 0	0.880	1.279	0.694	2.85	Case 38
Ant 7-Ant 0	0.885	1.279	0.694	2.86	Case 39
Ant 10-Ant 0	0.685	1.279	0.694	2.66	Case 40
Ant 8-Ant 0	0.786	1.279	0.694	2.76	Case 41
Ant 1-Ant 2	0.884	1.137	0.694	2.72	Case 42
Ant 6-Ant 2	0.578	1.137	0.694	2.41	Case 43
Ant 4-Ant 2	0.880	1.137	0.694	2.71	Case 44
Ant 7-Ant 2	0.885	1.137	0.694	2.72	Case 45
Ant 10-Ant 2	0.685	1.137	0.694	2.52	Case 46
Ant 8-Ant 2	0.786	1.137	0.694	2.62	Case 47

17.7 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.

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT+NFC:

<AG0 maximum report SAR>:

Test Position	Ant 0	Ant 2	All Antenna MAX SAR 1g W/kg
Front	2.614	0.000	2.614
Back	2.733	1.424	2.733
Left side	0.000	2.725	2.725
Right side	0.000	0.000	0.000
Top side	0.000	0.000	0.000
Bottom side	2.732	0.000	2.732

<AG1 maximum report SAR>:

Test Position	Ant 1	Ant 6	Ant 4	Ant 7	Ant 10	Ant 8	All Antenna MAX SAR 1g W/kg
Front	1.366	0.885	0.488	0.000	0.000	0.000	1.366
Back	1.887	0.926	1.972	1.987	1.329	1.582	1.987
Left side	0.000	1.326	1.975	0.000	0.000	0.000	1.975
Right side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Top side	1.992	0.000	0.000	0.000	0.000	1.723	1.992
Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<sAnt maximum report SAR>:

Test Position	Ant 9	All Antenna MAX SAR 10g W/kg
Front	0.000	0.000
Back	2.146	2.146
Left side	0.000	0.000
Right side	3.176	3.176
Top side	0.000	0.000
Bottom side	0.000	0.000

<WLAN+BT +NFC Worse-case SAR>:

Test Position	1 Bluetooth Ant 3	2 Bluetooth Ant 5	3 2.4GWLAN	4 5G/6GWLAN	5 NFC	1+4+5 Summed 1g SAR (W/kg)	2+4+5 Summed 1g SAR (W/kg)	Wlan/BT+NFC worse case
Front			1.035	0.307	0.000	0.307	0.307	1.035
Back			0.908	0.908	0.024	0.932	0.932	0.932
Left side			0.000	0.000	0.000	0.000	0.000	0.000
Right side			0.756	0.994	0.000	0.994	0.994	0.994
Top side			0.000	0.470	0.000	0.470	0.470	0.470
Bottom side			0.000	0.000	0.000	0.000	0.000	0.000

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT+NFC Worse-case>:

Test Position	AG1	AG0	Wlan/BT+NFC worse case	AG0+AG1+Wlan/BT+NFC worse case
Front	1.366	2.614	1.035	5.02
Back	1.987	2.733	0.932	5.65
Left side	1.975	2.725	0.000	4.70
Right side	0.000	0.000	0.994	0.99
Top side	1.992	0.000	0.470	2.46
Bottom side	0.000	2.732	0.000	2.73

<Simultaneous Transmission analysis of sAnt + WLAN+BT+NFC Worse-case>:

Test Position	share Ant 9	Wlan/BT+NFC worse case	share Ant 9+Wlan/BT+NFC worse case	SPLSR
Front	0.000	1.035	1.04	
Back	2.146	0.932	3.08	
Left side	0.000	0.000	0.00	
Right side	3.176	0.994	4.17	Case 50
Top side	0.000	0.470	0.47	
Bottom side	0.000	0.000	0.00	

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Front					
Ant,combination	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT+NFC worse case	SPLSR
	SAR	SAR			
Ant 1-Ant 0	1.366	2.614	1.035	5.02	Case 16
Ant 6-Ant 0	0.885	2.614	1.035	4.53	Case 17
Ant 4-Ant 0	0.488	2.614	1.035	4.14	Case 18
Ant 7-Ant 0	0.000	2.614	1.035	3.65	
Ant 10-Ant 0	0.000	2.614	1.035	3.65	
Ant 8-Ant 0	0.000	2.614	1.035	3.65	
Ant 1-Ant 2	1.366	0.000	1.035	2.40	
Ant 6-Ant 2	0.885	0.000	1.035	1.92	
Ant 4-Ant 2	0.488	0.000	1.035	1.52	
Ant 7-Ant 2	0.000	0.000	1.035	1.04	
Ant 10-Ant 2	0.000	0.000	1.035	1.04	
Ant 8-Ant 2	0.000	0.000	1.035	1.04	

Back					
Ant,combination	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT+NFC worse case	SPLSR
	SAR	SAR			
Ant 1-Ant 0	1.887	2.733	0.932	5.55	Case 19
Ant 6-Ant 0	0.926	2.733	0.932	4.59	Case 20
Ant 4-Ant 0	1.972	2.733	0.932	5.64	Case 21
Ant 7-Ant 0	1.987	2.733	0.932	5.65	Case 22
Ant 10-Ant 0	1.329	2.733	0.932	4.99	Case 23
Ant 8-Ant 0	1.582	2.733	0.932	5.25	Case 24
Ant 1-Ant 2	1.887	1.424	0.932	4.24	Case 25
Ant 6-Ant 2	0.926	1.424	0.932	3.28	
Ant 4-Ant 2	1.972	1.424	0.932	4.33	Case 26
Ant 7-Ant 2	1.987	1.424	0.932	4.34	Case 27
Ant 10-Ant 2	1.329	1.424	0.932	3.69	
Ant 8-Ant 2	1.582	1.424	0.932	3.94	

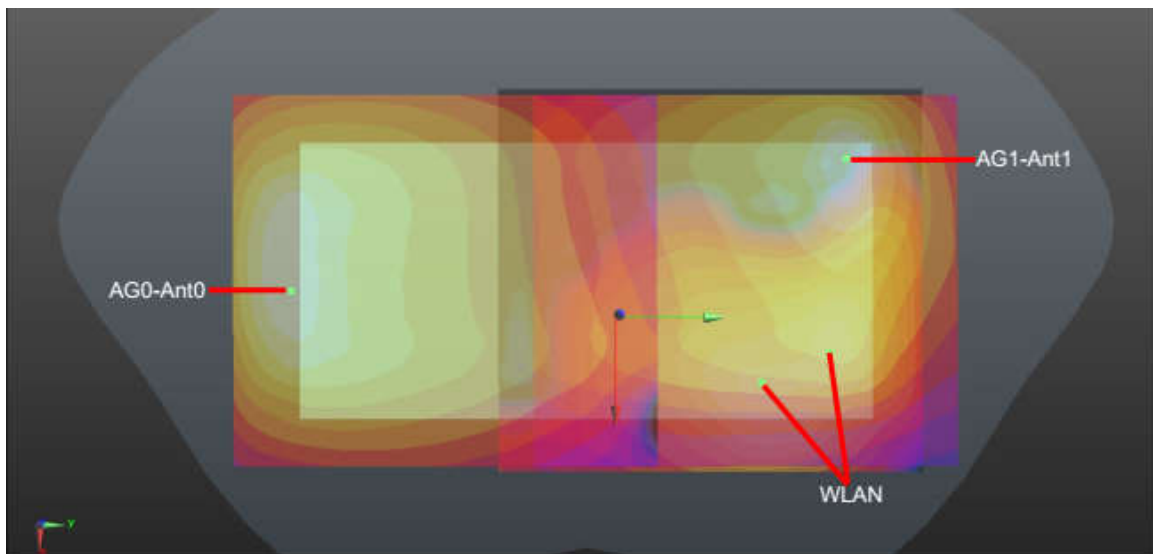


Left side					
Ant,combination	AG1	AG0	Wlan/BT worse case	AG0+AG1+Wlan/BT+NFC worse case	SPLSR
	SAR	SAR			
Ant 1-Ant 0	0.000	0.000	0.000	0.00	
Ant 6-Ant 0	1.326	0.000	0.000	1.33	
Ant 4-Ant 0	1.975	0.000	0.000	1.98	
Ant 7-Ant 0	0.000	0.000	0.000	0.00	
Ant 10-Ant 0	0.000	0.000	0.000	0.00	
Ant 8-Ant 0	0.000	0.000	0.000	0.00	
Ant 1-Ant 2	0.000	2.725	0.000	2.73	
Ant 6-Ant 2	1.326	2.725	0.000	4.05	Case 28
Ant 4-Ant 2	1.975	2.725	0.000	4.70	Case 29
Ant 7-Ant 2	0.000	2.725	0.000	2.73	
Ant 10-Ant 2	0.000	2.725	0.000	2.73	
Ant 8-Ant 2	0.000	2.725	0.000	2.73	

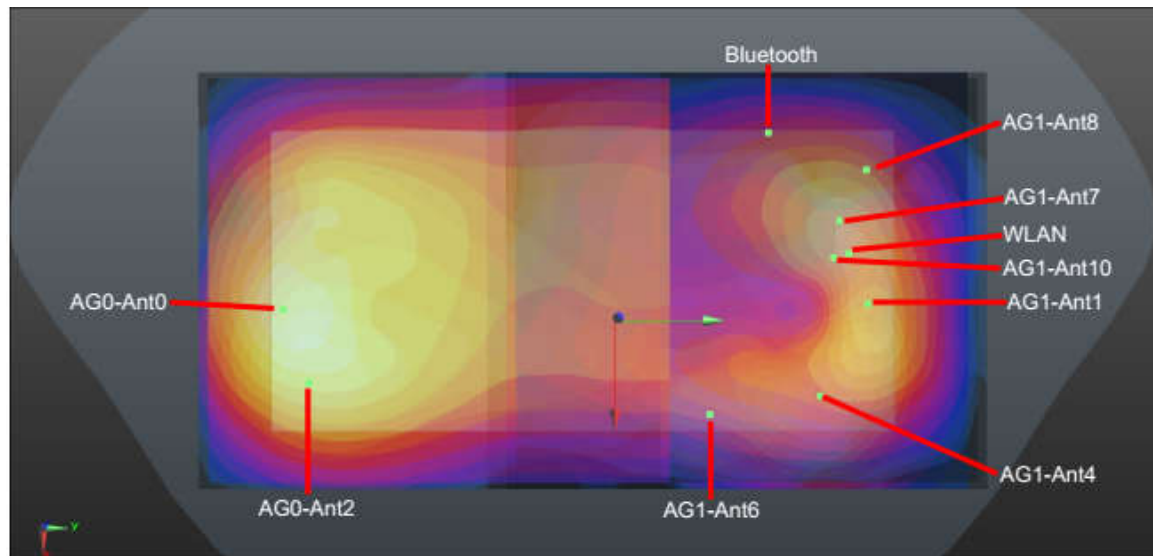
17.8 SPLSR Evaluation and Analysis

General Note:

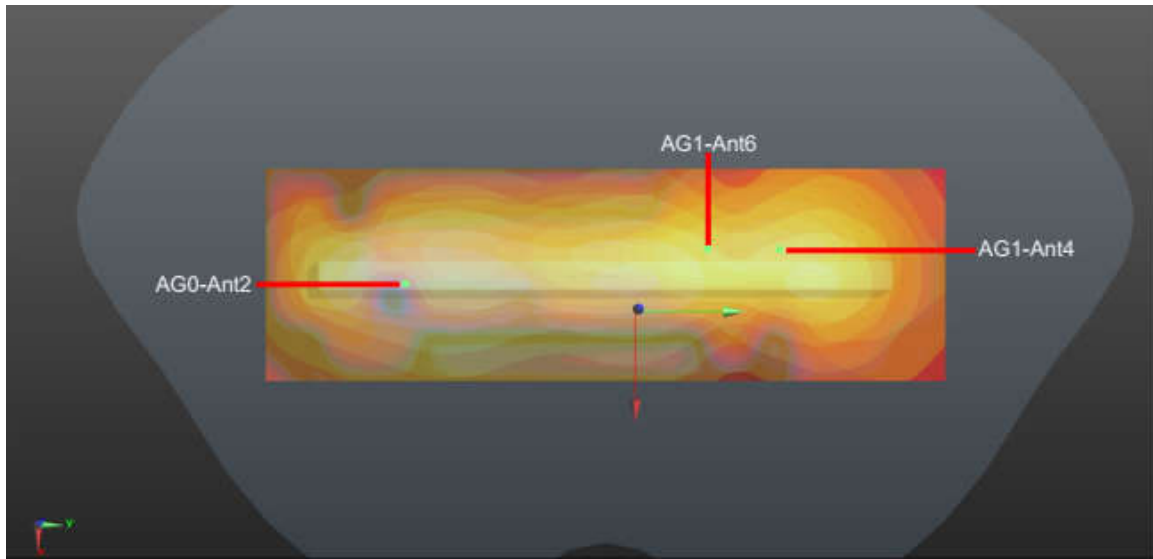
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, AG1 was summed algebraically with the BT/WIFI Antenna 3/5/7 and NFC antenna for the purposes of hybrid SPLSR combination and they are located at the Top of the device.
4. 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.
5. The axis peak locations refer to Section 17.9.



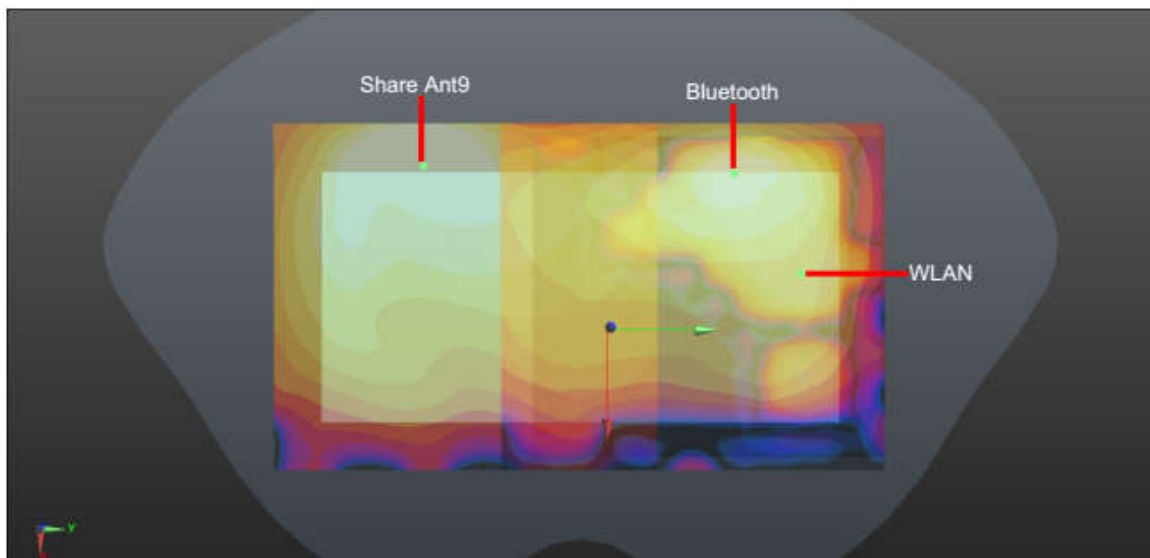
Hotspot WWAN+WLAN+BT Front 5mm



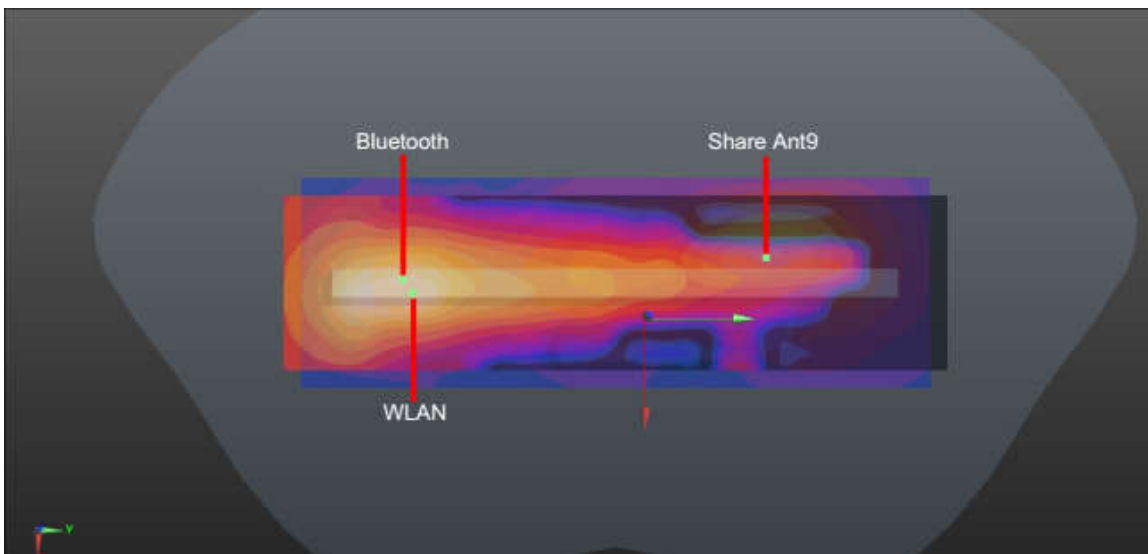
Hotspot WWAN+WLAN+BT Back 5mm



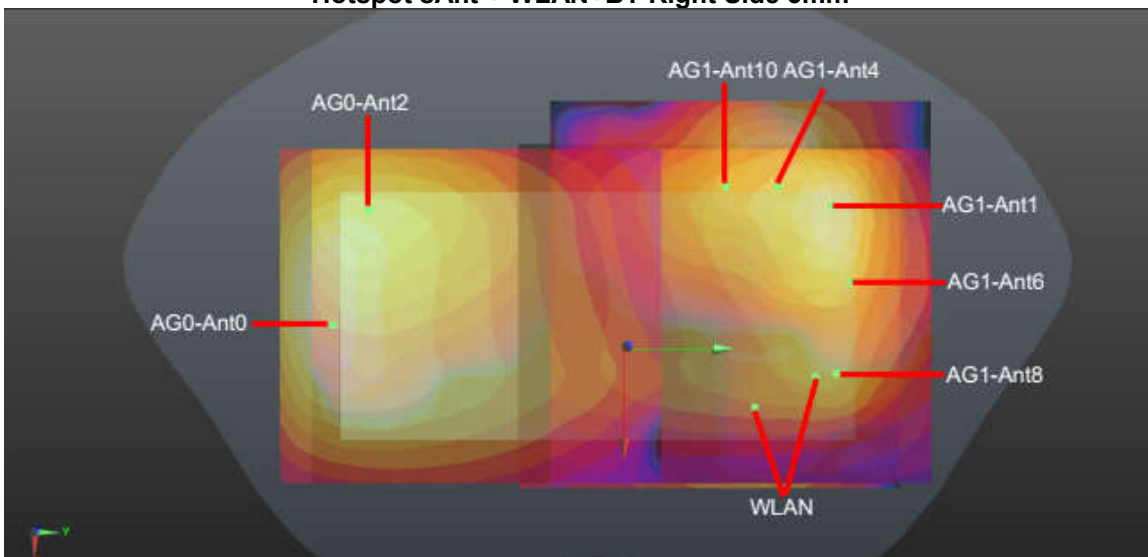
Hotspot WWAN+WLAN+BT Left Side 5mm



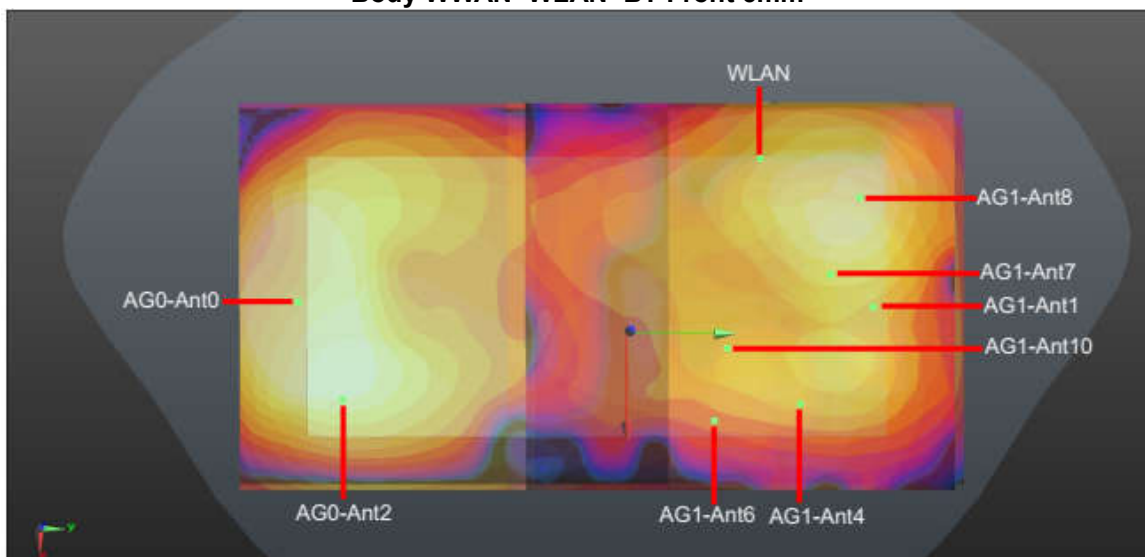
Hotspot sAnt + WLAN+BT Back 5mm



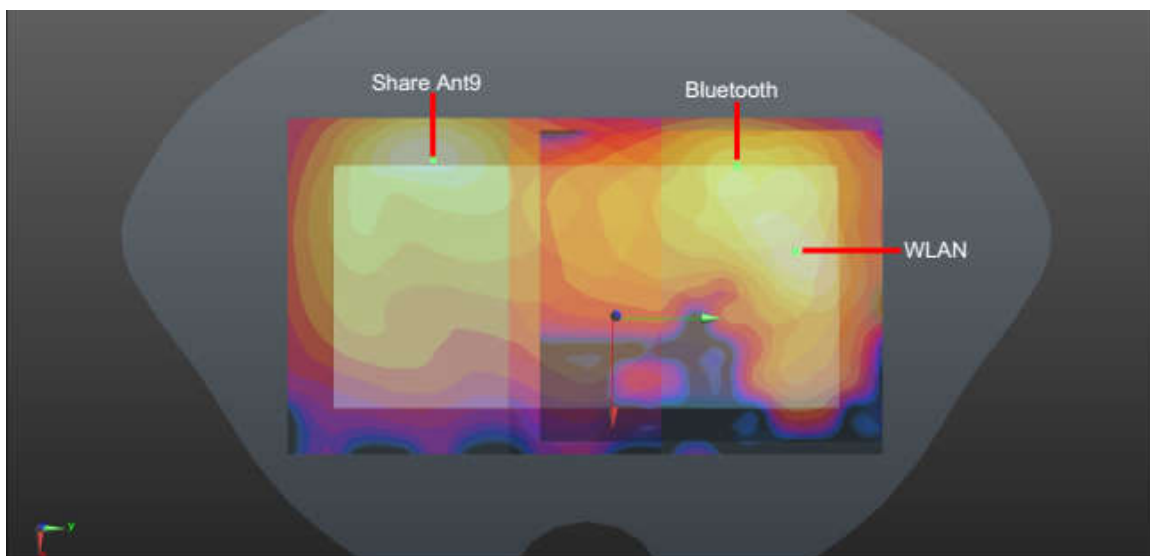
Hotspot sAnt + WLAN+BT Right Side 5mm



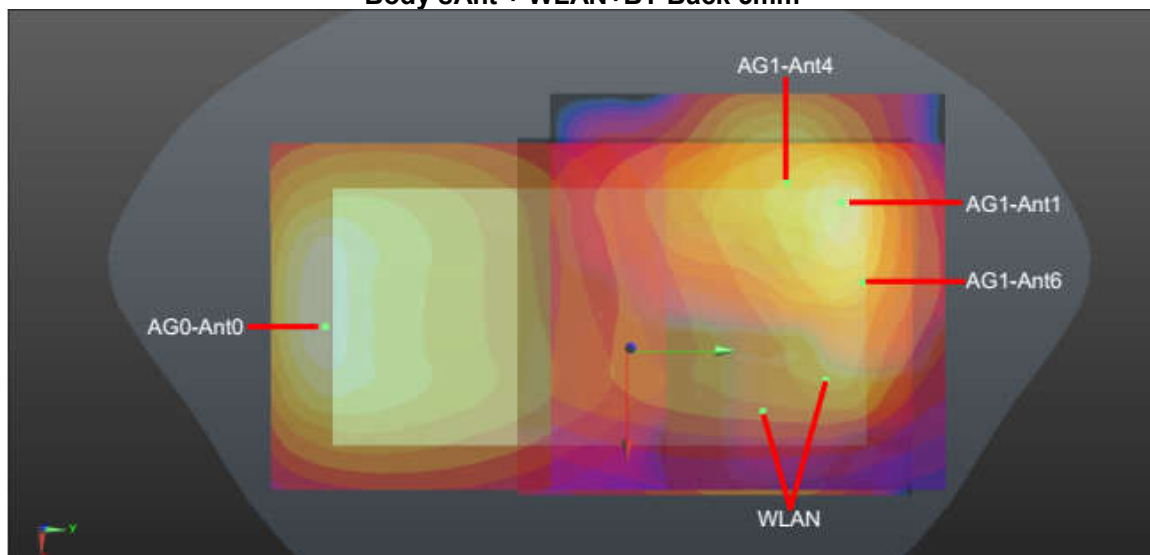
Body WWAN+WLAN+BT Front 5mm



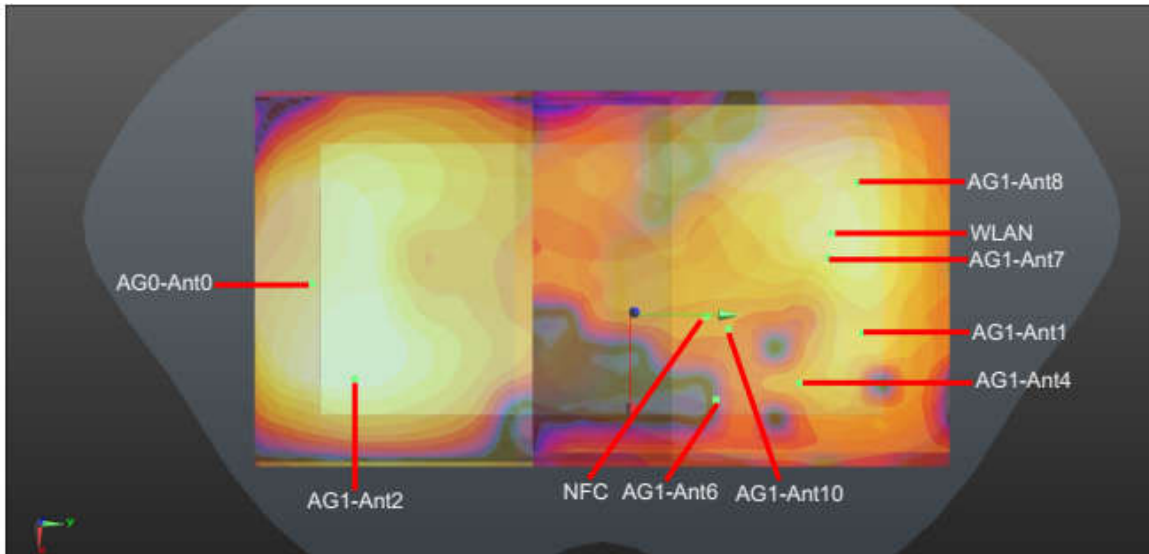
Body WWAN+WLAN+BT Back 5mm



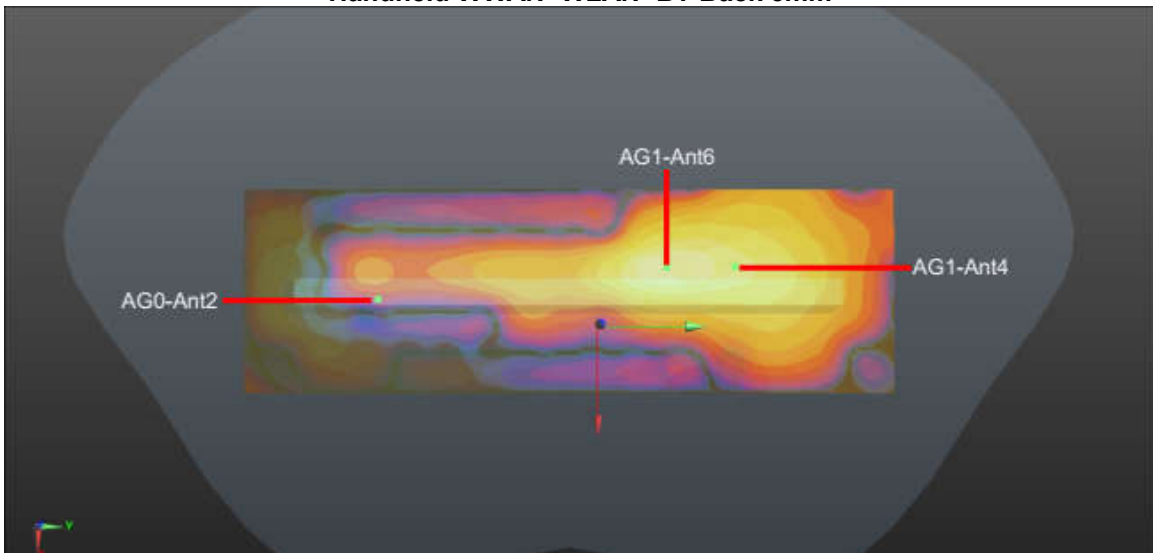
Body sAnt + WLAN+BT Back 5mm



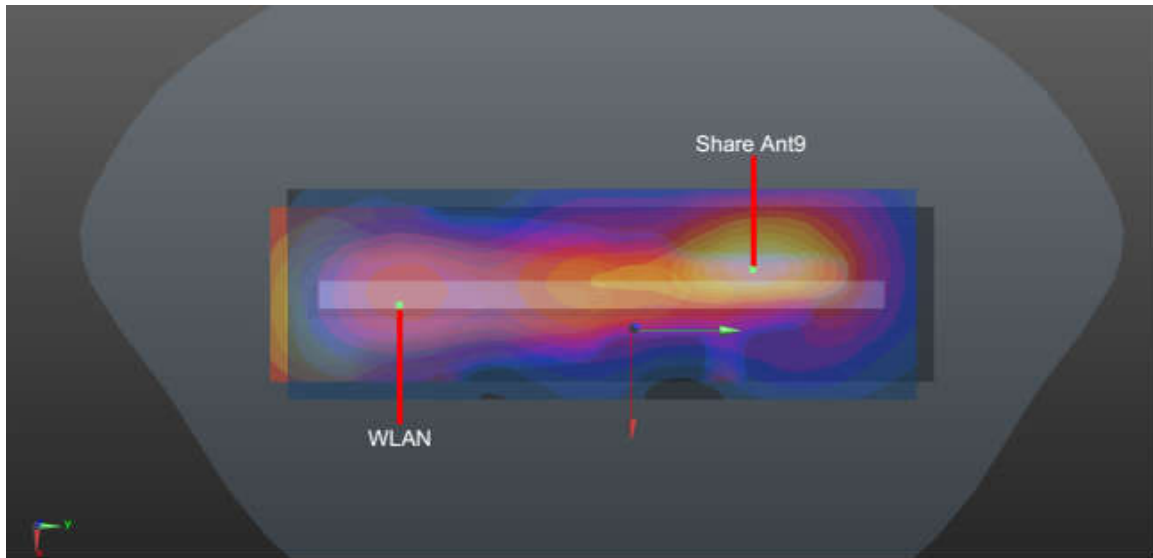
Handheld WWAN+WLAN+BT Front 5mm



Handheld WWAN+WLAN+BT Back 5mm



Handheld WWAN+WLAN+BT Left Side 5mm



Handheld sAnt + WLAN+BT Right Side 5mm

<Hotspot>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 1	AG0-Ant 0	Front	0.831	0.83	5mm	-40.00	-78.00	-203.00	149.5	1.61	0.01	Not required
	AG1-Ant 1		0.386	0.78	5mm	-40.00	71.50	-203.00				
	WLAN		0.389		5mm							
	AG0-Ant 0	Front	0.831	0.83	5mm	-40.00	-78.00	-203.00	141.7	1.61	0.01	Not required
	AG1-Ant 1		0.386	0.78	5mm							
	WLAN		0.389		5mm	15.00	52.60	-203.00				

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 2	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00	139.5	2.75	0.03	Not required
	AG1-Ant 1		0.613	1.53	5mm	-10.00	67.20	-203.00				
	WLAN		0.913		5mm							
	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00	129.3	2.75	0.04	Not required
	AG1-Ant 1		0.613	1.53	5mm							
	WLAN		0.913		5mm	-55.00	48.90	-203.00				
Case 3	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00	111.0	2.67	0.04	Not required
	AG1-Ant 6		0.536	1.45	5mm	15.00	35.80	-203.00				
	WLAN		0.913		5mm							
	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00	129.3	2.67	0.03	Not required
	AG1-Ant 6		0.536	1.45	5mm							
	WLAN		0.913		5mm	-55.00	48.90	-203.00				
Case 4	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00	137.4	2.68	0.03	Not required
	AG1-Ant 4		0.542	1.46	5mm	15.00	62.80	-203.00				
	WLAN		0.913		5mm							
	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00	129.3	2.68	0.03	Not required
	AG1-Ant 4		0.542	1.46	5mm							
	WLAN		0.913		5mm	-55.00	48.90	-203.00				
Case 5	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00	148.9	2.74	0.03	Not required
	AG1-Ant 7		0.611	1.52	5mm	-35.00	74.50	-203.00				
	WLAN		0.913		5mm							
	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00	129.3	2.74	0.04	Not required



	AG1-Ant 7		0.611	1.52	5mm							
	WLAN		0.913		5mm	-55.00	48.90	-203.00				
Case 6	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00	110.9	2.63	0.04	Not required
	AG1-Ant 10		0.498	1.41	5mm	-5.00	38.50	-203.00				
	WLAN		0.913	5mm								
	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00				
	AG1-Ant 10		0.498	1.41	5mm							
	WLAN		0.913	5mm	-55.00	48.90	-203.00					
Case 7	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00	155.7	2.71	0.03	Not required
	AG1-Ant 8		0.577	1.49	5mm	-45.00	79.40	-203.00				
	WLAN		0.913	5mm								
	AG0-Ant 0	Back	1.220	1.22	5mm	-10.00	-72.30	-203.00				
	AG1-Ant 8		0.577	1.49	5mm							
	WLAN		0.913	5mm	-55.00	48.90	-203.00					
Case 8	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00	131.7	2.37	0.03	Not required
	AG1-Ant 1		0.613	1.53	5mm	-10.00	67.20	-203.00				
	WLAN		0.913	5mm								
	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00				
	AG1-Ant 1		0.613	1.53	5mm							
	WLAN		0.913	5mm	-55.00	48.90	-203.00					
Case 9	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00	97.9	2.29	0.04	Not required
	AG1-Ant 6		0.536	1.45	5mm	15.00	35.80	-203.00				
	WLAN		0.913	5mm								
	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00				
	AG1-Ant 6		0.536	1.45	5mm							
	WLAN		0.913	5mm	-55.00	48.90	-203.00					
Case 10	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00	124.9	2.30	0.03	Not required
	AG1-Ant 4		0.542	1.46	5mm	15.00	62.80	-203.00				
	WLAN		0.913	5mm								
	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00				
	AG1-Ant 4		0.542	1.46	5mm							
	WLAN		0.913	5mm	-55.00	48.90	-203.00					
Case 11	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00	145.5	2.37	0.03	Not required
	AG1-Ant 7		0.611	1.52	5mm	-35.00	74.50	-203.00				
	WLAN		0.913	5mm								
	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00				
	AG1-Ant 7		0.611	1.52	5mm							
	WLAN		0.913	5mm	-55.00	48.90	-203.00					
Case 12	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00	102.6	2.26	0.03	Not required
	AG1-Ant 10		0.498	1.41	5mm	-5.00	38.50	-203.00				
	WLAN		0.913	5mm								
	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00				
	AG1-Ant 10		0.498	1.41	5mm							
	WLAN		0.913	5mm	-55.00	48.90	-203.00					
Case 13	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00	153.7	2.33	0.02	Not required
	AG1-Ant 8		0.577	1.49	5mm	-45.00	79.40	-203.00				
	WLAN		0.913	5mm								
	AG0-Ant 2	Back	0.844	0.84	5mm	15.00	-62.10	-203.00				
	AG1-Ant 8		0.577	1.49	5mm							
	WLAN		0.913	5mm	-55.00	48.90	-203.00					



Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 14	AG0-Ant 2	Left Side	1.048	1.05	5mm	-25.00	-59.80	-203.00	96.0	1.63	0.02	Not required
	AG1-Ant 6		0.582		5mm	-25.00	36.20	-203.00				
	WLAN		0.000		5mm							
Case 15	AG0-Ant 2	Left Side	1.048	1.05	5mm	-25.00	-59.80	-203.00	119.4	1.66	0.02	Not required
	AG1-Ant 4		0.615		5mm	-25.00	59.60	-203.00				
	WLAN		0.000		5mm							

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 48	Ant 9	Back	1.220	2.13	5mm	-65.00	-47.90	-203.00	97.3	2.13	0.03	Not required
	WLAN		0.913		5mm	-55.00	48.90	-203.00				
Case 49	Ant 9	Right side	1.277	2.22	5mm	-25.00	49.50	-203.00	102.3	2.22	0.03	Not required
	WLAN		0.944		5mm	-25.00	-52.80	-203.00				

<Body-worn>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 30	AG0-Ant 0	Front	0.884	1.12	5mm	-40.00	-78.00	-203.00	149.5	2.00	0.02	Not required
	AG1-Ant 1		0.805		5mm	-40.00	71.50	-203.00				
	WLAN		0.314		5mm							
	AG0-Ant 0	Front	0.884	1.12	5mm	-40.00	-78.00	-203.00	141.7	2.00	0.02	Not required
	AG1-Ant 1		0.805		5mm							
	WLAN		0.314		5mm	15.00	52.60	-203.00				
Case 31	AG0-Ant 0	Front	1.093	1.09	5mm	-40.00	-78.00	-203.00	117.5	1.87	0.02	Not required
	AG1-Ant 6		0.463		5mm	-65.00	36.80	-203.00				
	WLAN		0.314		5mm							
	AG0-Ant 0	Front	1.093	1.09	5mm	-40.00	-78.00	-203.00	141.7	1.87	0.02	Not required
	AG1-Ant 6		0.463		5mm							
	WLAN		0.314		5mm	15.00	52.60	-203.00				
Case 32	AG0-Ant 0	Front	1.093	1.09	5mm	-40.00	-78.00	-203.00	146.8	1.66	0.01	Not required
	AG1-Ant 4		0.257		5mm	-65.00	66.70	-203.00				
	WLAN		0.314		5mm							
	AG0-Ant 0	Front	1.093	1.09	5mm	-40.00	-78.00	-203.00	141.7	1.66	0.02	Not required
	AG1-Ant 4		0.257		5mm							
	WLAN		0.314		5mm	15.00	52.60	-203.00				
Case 33	AG0-Ant 0	Front	1.093	1.09	5mm	-40.00	-78.00	-203.00	108.3	1.62	0.02	Not required
	AG1-Ant 10		0.215		5mm	-65.00	27.40	-203.00				
	WLAN		0.314		5mm							
	AG0-Ant 0	Front	1.093	1.09	5mm	-40.00	-78.00	-203.00	141.7	1.62	0.01	Not required
	AG1-Ant 10		0.215		5mm							
	WLAN		0.314		5mm	15.00	52.60	-203.00				
Case 34	AG0-Ant 0	Front	1.093	1.09	5mm	-40.00	-78.00	-203.00	164.7	2.01	0.02	Not required
	AG1-Ant 8		0.607		5mm	-5.00	82.90	-203.00				
	WLAN		0.314		5mm							
	AG0-Ant 0	Front	1.093	1.09	5mm	-40.00	-78.00	-203.00	141.7	2.01	0.02	Not required
	AG1-Ant 8		0.607		5mm							
	WLAN		0.314		5mm	15.00	52.60	-203.00				
Case 35	AG0-Ant 2	Front	0.553	1.12	5mm	-45.00	-70.80	-203.00	142.4	1.67	0.02	Not required
	AG1-Ant 1		0.805		5mm	-40.00	71.50	-203.00				
	WLAN		0.314		5mm							



	AG0-Ant 2	Front	0.553	0.55	5mm	-45.00	-70.80	-203.00	137.2	1.67	0.02	Not required
	AG1-Ant 1		0.805									
	WLAN		0.314									

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 36	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	139.5	2.86	0.03	Not required
	AG1-Ant 1		0.884		5mm	-10.00	67.20	-203.00				
	WLAN		0.694		5mm							
	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	129.3	2.86	0.04	Not required
	AG1-Ant 1		0.884		5mm							
	WLAN		0.694		5mm	-55.00	48.90	-203.00				
Case 37	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	111.0	2.55	0.04	Not required
	AG1-Ant 6		0.578		5mm	15.00	35.80	-203.00				
	WLAN		0.694		5mm							
	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	129.3	2.55	0.03	Not required
	AG1-Ant 6		0.578		5mm							
	WLAN		0.694		5mm	-55.00	48.90	-203.00				
Case 38	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	137.4	2.85	0.04	Not required
	AG1-Ant 4		0.880		5mm	15.00	62.80	-203.00				
	WLAN		0.694		5mm							
	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	129.3	2.85	0.04	Not required
	AG1-Ant 4		0.880		5mm							
	WLAN		0.694		5mm	-55.00	48.90	-203.00				
Case 39	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	148.9	2.86	0.03	Not required
	AG1-Ant 7		0.885		5mm	-35.00	74.50	-203.00				
	WLAN		0.694		5mm							
	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	129.3	2.86	0.04	Not required
	AG1-Ant 7		0.885		5mm							
	WLAN		0.694		5mm	-55.00	48.90	-203.00				
Case 40	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	110.9	2.66	0.04	Not required
	AG1-Ant 10		0.685		5mm	-5.00	38.50	-203.00				
	WLAN		0.694		5mm							
	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	129.3	2.66	0.03	Not required
	AG1-Ant 10		0.685		5mm							
	WLAN		0.694		5mm	-55.00	48.90	-203.00				
Case 41	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	155.7	2.76	0.03	Not required
	AG1-Ant 8		0.786		5mm	-45.00	79.40	-203.00				
	WLAN		0.694		5mm							
	AG0-Ant 0	Back	1.279	1.28	5mm	-10.00	-72.30	-203.00	129.3	2.76	0.04	Not required
	AG1-Ant 8		0.786		5mm							
	WLAN		0.694		5mm	-55.00	48.90	-203.00				
Case 42	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00	131.7	2.72	0.03	Not required
	AG1-Ant 1		0.884		5mm	-10.00	67.20	-203.00				
	WLAN		0.694		5mm							
	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00	131.2	2.72	0.03	Not required
	AG1-Ant 1		0.884		5mm							
	WLAN		0.694		5mm	-55.00	48.90	-203.00				
Case 43	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00	97.9	2.41	0.04	Not required
	AG1-Ant 6		0.578		5mm	15.00	35.80	-203.00				
	WLAN		0.694		5mm							
	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00	131.2	2.41	0.03	Not required
	AG1-Ant 6		0.578		5mm							
	WLAN		0.694		5mm	-55.00	48.90	-203.00				
Case 44	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00	124.9	2.71	0.04	Not required
	AG1-Ant 4		0.880		5mm	15.00	62.80	-203.00				



	WLAN		0.694		5mm											
	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00	131.2	2.71	0.03	Not required				
	AG1-Ant 4		0.880	1.57	5mm											
	WLAN		0.694		5mm	-55.00	48.90	-203.00								
Case 45	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00					145.5	2.72	0.03	Not required
	AG1-Ant 7		0.885	1.58	5mm	-35.00	74.50	-203.00								
	WLAN		0.694		5mm											
	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00	131.2	2.72	0.03	Not required				
	AG1-Ant 7		0.885	1.58	5mm											
	WLAN		0.694		5mm	-55.00	48.90	-203.00								
Case 46	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00					102.6	2.52	0.04	Not required
	AG1-Ant 10		0.685	1.38	5mm	-5.00	38.50	-203.00								
	WLAN		0.694		5mm											
	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00	131.2	2.52	0.03	Not required				
	AG1-Ant 10		0.685	1.38	5mm											
	WLAN		0.694		5mm	-55.00	48.90	-203.00								
Case 47	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00					153.7	2.62	0.03	Not required
	AG1-Ant 8		0.786	1.48	5mm	-45.00	79.40	-203.00								
	WLAN		0.694		5mm											
	AG0-Ant 2	Back	1.137	1.14	5mm	15.00	-62.10	-203.00	131.2	2.62	0.03	Not required				
	AG1-Ant 8		0.786	1.48	5mm											
	WLAN		0.694		5mm	-55.00	48.90	-203.00								

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 51	Ant 9	Back	1.266	1.96	5mm	-65.00	-47.90	-203.00	97.3	1.96	0.03	Not required
	WLAN		0.694		5mm	-55.00	48.90	-203.00				

<Extremity>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR				
						X	Y	Z								
Case 16	AG0-Ant 0	Front	2.614	2.61	0mm	-25.00	-78.90	-203.00	160.3	5.02	0.07	Not required				
	AG1-Ant 1		1.366	2.40	0mm	-25.00	81.40	-203.00								
	WLAN		1.035		0mm											
	AG0-Ant 0	Front	2.614	2.61	0mm	-25.00	-78.90	-203.00					146.0	5.02	0.08	Not required
	AG1-Ant 1		1.366	2.40	0mm											
	WLAN		1.035		0mm	15.00	61.50	-203.00								
Case 17	AG0-Ant 0	Front	2.614	2.61	0mm	-25.00	-78.90	-203.00	122.4	4.53	0.08	Not required				
	AG1-Ant 6		0.885	1.92	0mm	-64.80	36.90	-203.20								
	WLAN		1.035		0mm											
	AG0-Ant 0	Front	2.614	2.61	0mm	-25.00	-78.90	-203.00					146.0	4.53	0.07	Not required
	AG1-Ant 6		0.885	1.92	0mm											
	WLAN		1.035		0mm	15.00	61.50	-203.00								
Case 18	AG0-Ant 0	Front	2.614	2.61	0mm	-25.00	-78.90	-203.00	147.9	4.14	0.06	Not required				
	AG1-Ant 4		0.488	1.52	0mm	-65.00	63.50	-203.00								
	WLAN		1.035		0mm											
	AG0-Ant 0	Front	2.614	2.61	0mm	-25.00	-78.90	-203.00					146.0	4.14	0.06	Not required
	AG1-Ant 4		0.488	1.52	0mm											
	WLAN		1.035		0mm	15.00	61.50	-203.00								



Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 19	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	151.7	5.55	0.09	Not required
	AG1-Ant 1		1.887		0mm	-5.00	73.30	-203.00				
	WLAN		0.932		0mm							
	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	139.6	5.55	0.09	Not required
	AG1-Ant 1		1.887		0mm							
	WLAN		0.932		0mm	-55.00	53.80	-203.00				
Case 20	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	117.7	4.59	0.08	Not required
	AG1-Ant 6		0.926		0mm	15.00	36.70	-203.00				
	WLAN		0.932		0mm							
	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	139.6	4.59	0.07	Not required
	AG1-Ant 6		0.926		0mm							
	WLAN		0.932		0mm	-55.00	53.80	-203.00				
Case 21	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	152.1	5.64	0.09	Not required
	AG1-Ant 4		1.972		0mm	-65.00	63.50	-203.00				
	WLAN		0.932		0mm							
	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	139.6	5.64	0.10	Not required
	AG1-Ant 4		1.972		0mm							
	WLAN		0.932		0mm	-55.00	53.80	-203.00				
Case 22	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	146.6	5.65	0.09	Not required
	AG1-Ant 7		1.987		0mm	-25.00	67.50	-203.00				
	WLAN		0.932		0mm							
	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	139.6	5.65	0.10	Not required
	AG1-Ant 7		1.987		0mm							
	WLAN		0.932		0mm	-55.00	53.80	-203.00				
Case 23	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	115.7	4.99	0.10	Not required
	AG1-Ant 10		1.329		0mm	-5.00	37.30	-203.00				
	WLAN		0.932		0mm							
	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	139.6	4.99	0.08	Not required
	AG1-Ant 10		1.329		0mm							
	WLAN		0.932		0mm	-55.00	53.80	-203.00				
Case 24	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	157.8	5.25	0.08	Not required
	AG1-Ant 8		1.582		0mm	-45.00	75.60	-203.00				
	WLAN		0.932		0mm							
	AG0-Ant 0	Back	2.733	2.73	0mm	-10.00	-78.30	-203.00	139.6	5.25	0.09	Not required
	AG1-Ant 8		1.582		0mm							
	WLAN		0.932		0mm	-55.00	53.80	-203.00				
Case 25	AG0-Ant 2	Back	1.424	1.42	0mm	15.00	-65.00	-203.00	139.7	4.24	0.06	Not required
	AG1-Ant 1		1.887		0mm	-5.00	73.30	-203.00				
	WLAN		0.932		0mm							
	AG0-Ant 2	Back	1.424	1.42	0mm	15.00	-65.00	-203.00	137.9	4.24	0.06	Not required
	AG1-Ant 1		1.887		0mm							
	WLAN		0.932		0mm	-55.00	53.80	-203.00				
Case 26	AG0-Ant 2	Back	1.424	1.42	0mm	15.00	-65.00	-203.00	151.4	4.33	0.06	Not required
	AG1-Ant 4		1.972		0mm	-65.00	63.50	-203.00				
	WLAN		0.932		0mm							
	AG0-Ant 2	Back	1.424	1.42	0mm	15.00	-65.00	-203.00	137.9	4.33	0.07	Not required
	AG1-Ant 4		1.972		0mm							
	WLAN		0.932		0mm	-55.00	53.80	-203.00				
Case 27	AG0-Ant 2	Back	1.424	1.42	0mm	15.00	-65.00	-203.00	138.4	4.34	0.07	Not required
	AG1-Ant 7		1.987		0mm	-25.00	67.50	-203.00				
	WLAN		0.932		0mm							
	AG0-Ant 2	Back	1.424	1.42	0mm	15.00	-65.00	-203.00	137.9	4.34	0.07	Not required
	AG1-Ant 7		1.987		0mm							
	WLAN		0.932		0mm							



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	WLAN		0.932		0mm	-55.00	53.80	-203.00				
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Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 28	AG0-Ant 2	Left side	2.725	2.73	0mm	-25.00	-62.00	-203.00	98.1	4.05	0.08	Not required
	AG1-Ant 6		1.326		0mm	-25.00	36.10	-203.00				
	WLAN		0.000		0mm							
Case 29	AG0-Ant 2	Left side	2.725	2.73	0mm	-25.00	-62.00	-203.00	126.7	4.70	0.08	Not required
	AG1-Ant 4		1.975		0mm	-25.00	64.70	-203.00				
	WLAN		0.000		0mm							

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 50	Ant 9	Right side	3.176	4.17	0mm	-25.00	50.30	-203.00	114.0	4.17	0.07	Not required
	WLAN		0.994		0mm	-25.00	-63.70	-203.00				



17.9 Maximum Report SAR And SAR Peak Locations

General Note:

- 6. The maximum report SAR and SAR Peak Locations corresponding to each position of each frequency band of each antenna in the below tables are as follows.
- 7. The unit of SAR evaluation is W/kg. The unit of x, y, z with Axis evaluation is mm.
- 8. WWAN antenna always chose the worst Axis among each frequency range (750MHz/835MHz/1750MHz/1900MHz /2300MHz/2600MHz/3500MHz/3700MHz) within the selected antenna for each exposure position.

<Hotspot>

Front													
Freq.	Support Band		Ant0	Ant7	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant8	Ant9	Ant10
750MHz	LTE Band12/13/14/17/171 FR1 n12/14/71	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-40 Y:-78.3 Z:-203		X:-40 Y:71.5 Z:-203								
835MHz	GSM850,3T X WCDMA V LTE Bands/26 FR1 n5/26	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-40 Y:-78 Z:-203		X:-40 Y:71.5 Z:-203								
1750MHz	WCDMA IV LTE Band4/66 FR1 n70/66	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-25 Y:-81.8 Z:-203		X:-25 Y:80.5 Z:-203								
1900MHz	GSM1900,3T X WCDMA II LTE Band2/25 FR1 n2/25	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-25 Y:-82.1 Z:-203		X:-25 Y:79.3 Z:-203								
2300MHz	LTE Band30 FR1 n30	Max SAR			NA							NA	
		Axis(X, Y, Z)			X:-25 Y:77.8 Z:-203							X:25 Y:-47.9 Z:-203	
2450MHz	2.4GWLAN	Max SAR					NA		NA				
		Axis(X, Y, Z)					X:-5 Y:78.3 Z:-203		X:-5 Y:78.3 Z:-203				
2450MHz	Bluetooth	Max SAR					NA		NA				
		Axis(X, Y, Z)					X:5 Y:70.5 Z:-203		X:15 Y:52.6 Z:-203				
2600MHz	LTE Band7/38/41 FR1 n7/38/41	Max SAR			NA	NA				NA		NA	
		Axis(X, Y, Z)			X:-25 Y:85.7 Z:-203	X:-45 Y:-70.8 Z:-203				X:-65 Y:36.8 Z:-203		X:25 Y:-50.3 Z:-203	
3500/3700/3900MHz	LTE Band48 FR1 n48/77/78	Max SAR		NA				NA			NA		NA
		Axis(X, Y, Z)		X:-15 Y:80.5 Z:-203				X:-65 Y:66.7 Z:-203			X:-5 Y:82.9 Z:-203		X:-65 Y:27.4 Z:-203
WLAN 5GH/6GHz	WLAN	Max SAR		NA					NA				
		Axis(X, Y, Z)		X:15 Y:61.5 Z:-203					X:15 Y:61.5 Z:-203				

Back													
Freq.	Support Band		Ant0	Ant7	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant8	Ant9	Ant10
750MHz	LTE Band12/13/14/17/171 FR1 n12/14/71	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-10 Y:-72.9 Z:-203		X:-10 Y:67.2 Z:-203								
835MHz	GSM850,3T X WCDMA V LTE Bands/26 FR1 n5/26	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-10 Y:-72.3 Z:-203		X:-10 Y:70.5 Z:-203								
1750MHz	WCDMA IV LTE Band4/66 FR1 n70/66	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-25 Y:-80.3 Z:-203		X:-10 Y:71.1 Z:-203								
1900MHz	GSM1900,3T X WCDMA II LTE Band 2/25 FR1 n2/25	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-25 Y:-78.8 Z:-203		X:-25 Y:67.6 Z:-203								
2300MHz	LTE Band30 FR1 n30	Max SAR			NA							NA	
		Axis(X, Y, Z)			X:-5 Y:74.2							X:-65 Y:-47.9	



		Y,Z)			Z:-203							Z:-203	
2450MHz	2.4GWLAN	Max SAR					NA		NA				
		Axis(X,Y,Z)					X:-55 Y:49 Z:-203		X:-55 Y:49 Z:-203				
2450MHz	Bluetooth	Max SAR					NA		NA				
		Axis(X,Y,Z)					X:-45 Y:66.4 Z:-203		X:-55 Y:48.9 Z:-203				
2600MHz	LTE Band7/38/41 FR1 n7/38/41	Max SAR			NA	NA				NA		NA	
		Axis(X,Y,Z)			X:-5 Y:77.5 Z:-203	X:15 Y:-62.1 Z:-203				X:15 Y:35.8 Z:-203		X:-65 Y:-49.1 Z:-203	
3500/3700/3900MHz	LTE Band48 FR1 n48/77/78	Max SAR		NA				NA			NA		NA
		Axis(X,Y,Z)		X:-35 Y:74.5 Z:-203			X:15 Y:62.8 Z:-203			X:-45 Y:79.4 Z:-203		X:-5 Y:38.5 Z:-203	
WLAN 5GH/6GHz	WLAN	Max SAR		NA					NA				
		Axis(X,Y,Z)		X:-45 Y:63.7 Z:-203					X:-45 Y:63.7 Z:-203				

Left Side													
Freq.	Support Band		Ant0	Ant7	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant8	Ant9	Ant10
750MHz	LTE Band12/13/14/17/71 FR1 n12/14/71	Max SAR	NA		NA								
		Axis(X,Y,Z)	X:-25 Y:-5.8 Z:-203		X:-25 Y:72 Z:-203								
835MHz	GSM850,3TX WCDMA V LTE Band5/26 FR1 n5/26	Max SAR	NA		NA								
		Axis(X,Y,Z)	X:-25 Y:17.1 Z:-203		X:-25 Y:72 Z:-203								
1750MHz	WCDMA IV LTE Band4/66 FR1 n70/66	Max SAR	NA		NA								
		Axis(X,Y,Z)	X:-25 Y:-53.7 Z:-203		X:-33 Y:74.8 Z:-203								
1900MHz	GSM1900,3TX WCDMA II LTE Band2/25 FR1 n2/25	Max SAR	NA		NA								
		Axis(X,Y,Z)	X:-25 Y:-70.9 Z:-203		X:-33 Y:76 Z:-203								
2300MHz	LTE Band30 FR1 n30	Max SAR			NA								
		Axis(X,Y,Z)			X:-25 Y:54.9 Z:-203								
2450MHz	2.4GWLAN	Max SAR											
		Axis(X,Y,Z)											
2450MHz	Bluetooth	Max SAR											
		Axis(X,Y,Z)											
2600MHz	LTE Band7/38/41 FR1 n7/38/41	Max SAR			NA	NA				NA			
		Axis(X,Y,Z)			NA	X:-25 Y:-59.8 Z:-203				X:-25 Y:36.2 Z:-203			
3500/3700/3900 MHz	LTE Band48 FR1 n48/77/78	Max SAR		NA				NA					NA
		Axis(X,Y,Z)		X:-49 Y:67.9 Z:-203				X:-25 Y:59.6 Z:-203					X:-25 Y:29.3 Z:-203
WLAN 5GH/6GHz	WLAN	Max SAR											
		Axis(X,Y,Z)											



<Body-worn>

Front													
Freq.	Support Band		Ant0	Ant7	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant8	Ant9	Ant10
750MHz	LTE Band12/13/14/17/71 FR1 n12/14/71	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-40 Y:-78.3 Z:-203		X:-40 Y:71.5 Z:-203								
835MHz	GSM850,3T X WCDMA V LTE Bands/26 FR1 n5/26	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-40 Y:-78 Z:-203		X:-40 Y:71.5 Z:-203								
1750MHz	WCDMA IV LTE Band4/66 FR1 n70/66	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-25 Y:-81.8 Z:-203		X:-25 Y:80.5 Z:-203								
1900MHz	GSM1900,3T X WCDMA II LTE Band2/25 FR1 n2/25	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-25 Y:-82.1 Z:-203		X:-25 Y:79.3 Z:-203								
2300MHz	LTE Band30 FR1 n30	Max SAR			NA							NA	
		Axis(X, Y, Z)			X:-25 Y:77.8 Z:-203							X:25 Y:-47.9 Z:-203	
2450MHz	2.4GWLAN	Max SAR					NA		NA				
		Axis(X, Y, Z)					X:-5 Y:78.3 Z:-203		X:-5 Y:78.3 Z:-203				
2450MHz	Bluetooth	Max SAR					NA		NA				
		Axis(X, Y, Z)					X:5 Y:70.5 Z:-203		X:15 Y:52.6 Z:-203				
2600MHz	LTE_Band,7/38/41 FR1,n7/38/41	Max SAR			NA	NA				NA		NA	
		Axis(X, Y, Z)			X:-25 Y:85.7 Z:-203	X:-45 Y:-70.8 Z:-203				X:-65 Y:36.8 Z:-203		X:25 Y:-50.3 Z:-203	
3500/3700/3900MHz	LTE Band48 FR1 n48/77/78	Max SAR		NA				NA			NA		NA
		Axis(X, Y, Z)		X:-15 Y:80.5 Z:-203				X:-65 Y:66.7 Z:-203			X:-5 Y:82.9 Z:-203		X:-65 Y:27.4 Z:-203
WLAN 5GH/6GHz	WLAN	Max SAR		NA						NA			
		Axis(X, Y, Z)		X:15 Y:61.5 Z:-203						X:15 Y:61.5 Z:-203			

Back													
Freq.	Support Band		Ant0	Ant7	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant8	Ant9	Ant10
750MHz	LTE Band12/13/14/17/71 FR1 n12/14/71	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-10 Y:-72.9 Z:-203		X:-10 Y:67.2 Z:-203								
835MHz	GSM850,3T X WCDMA V LTE Bands/26 FR1 n5/26	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-10 Y:-72.3 Z:-203		X:-10 Y:70.5 Z:-203								
1750MHz	WCDMA IV LTE Band4/66 FR1 n70/66	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-25 Y:-80.3 Z:-203		X:-10 Y:71.1 Z:-203								
1900MHz	GSM1900,3T X WCDMA II LTE Band2/25 FR1 n2/25	Max SAR	NA		NA								
		Axis(X, Y, Z)	X:-25 Y:-78.8 Z:-203		X:-25 Y:67.6 Z:-203								
2300MHz	LTE Band30 FR1 n30	Max SAR			NA							NA	
		Axis(X, Y, Z)			X:-5 Y:74.2 Z:-203							X:-65 Y:-47.9 Z:-203	
2450MHz	2.4GWLAN	Max SAR					NA		NA				
		Axis(X, Y, Z)					X:-55 Y:49 Z:-203		X:-55 Y:49 Z:-203				
2450MHz	Bluetooth	Max SAR					NA		NA				
		Axis(X, Y, Z)					X:-45 Y:66.4 Z:-203		X:-55 Y:48.9 Z:-203				
2600MHz	LTE Band7/38/41 FR1 n7/38/41	Max SAR			NA	NA				NA		NA	
		Axis(X, Y, Z)			X:-5 Y:77.5 Z:-203	X:15 Y:-62.1 Z:-203				X:15 Y:35.8 Z:-203		X:-65 Y:-49.1 Z:-203	



3500/3700/3900MHz	LTE Band48 FR1 n48/77/78	Max SAR Axis(X, Y, Z)	NA	X:-35 Y:74.5 Z:-203	NA	X:15 Y:62.8 Z:-203	NA	X:-45 Y:79.4 Z:-203	NA	X:-5 Y:38.5 Z:-203
WLAN 5GH/6GHz	WLAN	Max SAR Axis(X, Y, Z)	NA	X:-45 Y:63.7 Z:-203	NA	X:-45 Y:63.7 Z:-203	NA			

<Extremity>

Front													
Freq.	Support Band		Ant0	Ant7	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant8	Ant9	Ant10
750MHz	LTE Band12/13/14/17/71 FR1 n12/14/71	Max SAR Axis(X, Y, Z)											
835MHz	GSM850,3TX WCDMA V LTE Band5/26 FR1 n5/26	Max SAR Axis(X, Y, Z)											
1750MHz	WCDMA, IV LTE Band4/66 FR1 n70/66	Max SAR Axis(X, Y, Z)	NA		NA								
1900MHz	GSM1900,3TX WCDMA II LTE Band2/25 FR1 n2/25	Max SAR Axis(X, Y, Z)	NA		NA								
2300MHz	LTE Band30 FR1 n30	Max SAR Axis(X, Y, Z)											
2450MHz	2.4GWLAN	Max SAR Axis(X, Y, Z)						NA	NA				
2450MHz	Bluetooth	Max SAR Axis(X, Y, Z)						X:5 Y:73.6 Z:-203	X:5 Y:73.6 Z:-203				
2600MHz	LTE Band7/38/41 FR1 n7/38/41	Max SAR Axis(X, Y, Z)			NA					NA		NA	
3500/3700/3900 MHz	LTE Band48 FR1 n48/77/78	Max SAR Axis(X, Y, Z)						NA					
WLAN 5GH/6GHz	WLAN	Max SAR Axis(X, Y, Z)		NA					NA				
				X:15 Y:61.5 Z:-203					X:15 Y:61.5 Z:-203				

Back													
Freq.	Support Band		Ant0	Ant7	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant8	Ant9	Ant10
750MHz	LTE Band12/13/14/17/71 FR1 n12/14/71	Max SAR Axis(X, Y, Z)	NA		NA								
835MHz	GSM850,3TX WCDMA V LTE Band5/26 FR1 n5/26	Max SAR Axis(X, Y, Z)	NA		NA								
1750MHz	WCDMA IV LTE Band4/66 FR1 n70/66	Max SAR Axis(X, Y, Z)	NA		NA								
1900MHz	GSM1900,3TX WCDMA II LTE Band2/25 FR1 n2/25	Max SAR Axis(X, Y, Z)	NA		NA								
2300MHz	LTE Band30 FR1 n30	Max SAR Axis(X, Y, Z)			NA							NA	
2450MHz	2.4GWLAN	Max SAR Axis(X, Y, Z)						NA	NA				
2450MHz	Bluetooth	Max SAR Axis(X, Y, Z)						X:-55 Y:53.8 Z:-203	X:-55 Y:53.8 Z:-203				
2600MHz	LTE Band7/38/41 FR1 n7/38/41	Max SAR Axis(X, Y, Z)			NA	NA				NA		NA	
				X:-5 Y:75.6 Z:-203	X:15 Y:65 Z:-203					X:15 Y:36.7 Z:-203		X:-55 Y:-57.9 Z:-203	



3500/3700/3900MHz	LTE Band48 FR1 n48/77/78	Max SAR	NA				NA			NA		NA
		Axis(X, Y, Z)	X:-25 Y:67.5 Z:-203				X:15 Y:63 Z:-203			X:-45 Y:75.6 Z:-203		X:-5 Y:37.3 Z:-203
WLAN 5GH/6GHz	WLAN	Max SAR	NA					NA				
		Axis(X, Y, Z)	X:-35 Y:71.8 Z:-203					X:-35 Y:71.8 Z:-203				
NFC		Max, SAR	NA									
		Axis(X, Y, Z)	X:-5 Y:56.2 Z:-203									

Left Side													
Freq.	Support Band		Ant0	Ant7	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant8	Ant9	Ant10
750MHz	LTE Band12/13/14/17/71 FR1 n12/14/71	Max SAR											
		Axis(X, Y, Z)											
835MHz	GSM850,3TX WCDMA V LTE Band5/26 FR1 n5/26	Max SAR											
		Axis(X, Y, Z)											
1750MHz	WCDMA IV LTE Band4/66 FR1 n70/66	Max SAR											
		Axis(X, Y, Z)											
1900MHz	GSM1900,3TX WCDMA II LTE Band2/25 FR1 n2/25	Max SAR											
		Axis(X, Y, Z)											
2300MHz	LTE Band30 FR1 n30	Max SAR											
		Axis(X, Y, Z)											
2450MHz	2.4GWLAN	Max SAR								NA			
		Axis(X, Y, Z)								NA			
2450MHz	Bluetooth	Max SAR								NA			
		Axis(X, Y, Z)								NA			
2600MHz	LTE Band7/38/41 FR1 n7/38/41	Max SAR				NA				NA			
		Axis(X, Y, Z)				X:-25 Y:-62 Z:-203				X:-25 Y:36.1 Z:-203			
3500/3700/3900MHz	LTE Band48 FR1 n48/77/78	Max SAR						NA					
		Axis(X, Y, Z)						X:-25 Y:64.7 Z:-203					
WLAN 5GH/6GHz	WLAN	Max SAR		NA						NA			
		Axis(X, Y, Z)		NA						NA			

18. Supplemental Tuner Tests Results

General Note:

1. This device implements impedance tuner (246 states) antenna tuning techniques in the WCDMA V/III/IV, LTE Band 2/4/5/12/13/14/17/25/26/66/71, and 5GNR n2/n5/ n12/ n14/ n25/26/66/71 for ANT0.
2. LTE B17 / B5 / B4 / B2 SAR test was covered by LTE B12 / B26 / B66 / B25; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
3. 5GNR n2 / n5 SAR test was covered by 5GNR n25 / n26; according to April 2015 TCB workshop, SAR test for overlapping NR bands can be reduced.
4. Per 2019, April TCBC 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.
5. 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.
6. To evaluate all of the tuner states, the 246 tuner states for ANT0/1 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 1g SAR was > 1.2 W/kg or 10g SAR was > 3.0 W/kg for a particular band / mode / exposure condition, point SAR measurements were made for all 246 tuner states.
7. 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.
8. 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.
9. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

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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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