



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26_Ant 0	15M	QPSK	1	0	Front	10mm	Index 5/6	26865	831.5	24.39	25.40	1.262	-0.16	0.495	0.625
	LTE Band 26_Ant 0	15M	QPSK	36	0	Front	10mm	Index 5/6	26865	831.5	23.50	24.40	1.230	0.06	0.378	0.465
84	LTE Band 26_Ant 0	15M	QPSK	1	0	Back	10mm	Index 5/6	26865	831.5	24.39	25.40	1.262	-0.02	0.568	0.717
	LTE Band 26_Ant 0	15M	QPSK	36	0	Back	10mm	Index 5/6	26865	831.5	23.50	24.40	1.230	0.11	0.462	0.568
	LTE Band 5B_Ant 0	10M+10M	QPSK	1	49	Back	10mm	Index 5/6	20475	831.5	22.75	23.70	1.245	0.03	0.386	0.480
	LTE Band 26_Ant 1	15M	QPSK	1	0	Front	10mm	Index 5/6	26865	831.5	24.33	25.40	1.279	0.08	0.337	0.431
	LTE Band 26_Ant 1	15M	QPSK	36	0	Front	10mm	Index 5/6	26865	831.5	23.28	24.40	1.294	0.17	0.264	0.342
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	Index 5/6	26865	831.5	24.33	25.40	1.279	0	0.539	0.690
	LTE Band 26_Ant 1	15M	QPSK	36	0	Back	10mm	Index 5/6	26865	831.5	23.28	24.40	1.294	-0.08	0.440	0.569
	LTE Band 5B_Ant 1	10M+10M	QPSK	1	49	Back	10mm	Index 5/6	20475	831.5	22.50	24.10	1.445	-0.06	0.296	0.428
	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	Index 5	27710	2310	20.56	21.60	1.271	0.02	0.367	0.466
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	Index 5	27710	2310	20.37	21.60	1.327	-0.04	0.334	0.443
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	Index 5	27710	2310	20.56	21.60	1.271	-0.16	0.364	0.462
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	Index 5	27710	2310	20.37	21.60	1.327	-0.16	0.298	0.396
	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	Index 6	27710	2310	20.56	20.90	1.081	0.02	0.367	0.397
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	Index 6	27710	2310	20.37	20.90	1.130	-0.04	0.334	0.377
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	Index 6	27710	2310	20.56	20.90	1.081	-0.16	0.364	0.394
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	Index 6	27710	2310	20.37	20.90	1.130	-0.16	0.298	0.337
85	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	Index 5	27710	2310	20.07	20.80	1.183	-0.01	0.788	0.932
	LTE Band 30_Ant 0	10M	QPSK	25	0	Front	10mm	Index 5	27710	2310	19.87	20.80	1.239	0.16	0.724	0.897
	LTE Band 30_Ant 0	10M	QPSK	50	0	Front	10mm	Index 5	27710	2310	19.84	20.80	1.247	0.04	0.711	0.887
	LTE Band 30_Ant 0	10M	QPSK	1	0	Back	10mm	Index 5	27710	2310	20.07	20.80	1.183	-0.16	0.770	0.911
	LTE Band 30_Ant 0	10M	QPSK	25	0	Back	10mm	Index 5	27710	2310	19.87	20.80	1.239	0.16	0.681	0.844
	LTE Band 30_Ant 0	10M	QPSK	50	0	Back	10mm	Index 5	27710	2310	19.84	20.80	1.247	-0.02	0.667	0.832
	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	Index 6	27710	2310	20.07	20.10	1.007	-0.01	0.788	0.793
	LTE Band 30_Ant 0	10M	QPSK	25	0	Front	10mm	Index 6	27710	2310	19.87	20.10	1.054	0.16	0.724	0.763
	LTE Band 30_Ant 0	10M	QPSK	1	0	Back	10mm	Index 6	27710	2310	20.07	20.10	1.007	-0.16	0.770	0.775
	LTE Band 30_Ant 0	10M	QPSK	25	0	Back	10mm	Index 6	27710	2310	19.87	20.10	1.054	0.16	0.681	0.718
	LTE Band 66_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	132572	1770	20.56	21.70	1.300	-0.04	0.252	0.328
	LTE Band 66_Ant 2	20M	QPSK	50	0	Front	10mm	Index 5	132572	1770	20.49	21.70	1.321	0.08	0.235	0.311
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Index 5	132572	1770	20.56	21.70	1.300	-0.13	0.307	0.399
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Index 5	132072	1720	20.27	21.70	1.390	-0.02	0.258	0.359
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Index 5	132322	1745	20.33	21.70	1.371	-0.19	0.275	0.377
	LTE Band 66_Ant 2	20M	QPSK	50	0	Back	10mm	Index 5	132572	1770	20.49	21.70	1.321	0.17	0.278	0.367
	LTE Band 66B_Ant 2	15M+5M	QPSK	1	0	Back	10mm	Index 5	132322	1745	18.75	20.10	1.365	-0.04	0.195	0.266
	LTE Band 66C_Ant 2	20M+20M	QPSK	1	0	Back	10mm	Index 5	132322	1745	18.81	20.10	1.346	0.08	0.198	0.266
	LTE Band 66_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	132572	1770	20.56	21.00	1.107	-0.04	0.252	0.279
	LTE Band 66_Ant 2	20M	QPSK	50	0	Front	10mm	Index 6	132572	1770	20.49	21.00	1.125	0.08	0.235	0.264
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Index 6	132572	1770	20.56	21.00	1.107	-0.13	0.307	0.340
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Index 6	132072	1720	20.27	21.00	1.183	-0.02	0.258	0.305
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Index 6	132322	1745	20.33	21.00	1.167	-0.19	0.275	0.321
	LTE Band 66_Ant 2	20M	QPSK	50	0	Back	10mm	Index 6	132572	1770	20.49	21.00	1.125	0.17	0.278	0.313
	LTE Band 66B_Ant 2	15M+5M	QPSK	1	0	Back	10mm	Index 6	132322	1745	18.75	19.40	1.161	-0.04	0.195	0.226
	LTE Band 66C_Ant 2	20M+20M	QPSK	1	0	Back	10mm	Index 6	132322	1745	18.81	19.40	1.146	0.08	0.198	0.227
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	132572	1770	18.99	19.90	1.233	-0.05	0.455	0.561
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	132072	1720	18.63	19.90	1.340	0	0.509	0.682
86	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	132322	1745	18.75	19.90	1.303	-0.06	0.536	0.698
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	Index 5	132572	1770	18.90	19.90	1.259	0.04	0.440	0.554
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	Index 5	132572	1770	18.99	19.90	1.233	-0.05	0.447	0.551
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	Index 5	132572	1770	18.90	19.90	1.259	-0.05	0.403	0.507
	LTE Band 66B_Ant 0	15M+5M	QPSK	1	0	Front	10mm	Index 5	132322	1745	17.33	19.10	1.503	-0.12	0.381	0.573
	LTE Band 66C_Ant 0	20M+20M	QPSK	1	0	Front	10mm	Index 5	132322	1745	17.24	19.10	1.535	0.17	0.378	0.580



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	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	132572	1770	18.99	19.20	1.050	-0.05	0.455	0.478
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	132072	1720	18.63	19.20	1.140	0	0.509	0.580
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	132322	1745	18.75	19.20	1.109	-0.06	0.536	0.595
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	Index 6	132572	1770	18.90	19.20	1.072	0.04	0.440	0.471
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	Index 6	132572	1770	18.99	19.20	1.050	-0.05	0.447	0.469
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	Index 6	132572	1770	18.90	19.20	1.072	-0.05	0.403	0.432
	LTE Band 66B_Ant 0	15M+5M	QPSK	1	0	Front	10mm	Index 6	132322	1745	17.33	18.40	1.279	-0.12	0.381	0.487
	LTE Band 66C_Ant 0	20M+20M	QPSK	1	0	Front	10mm	Index 6	132322	1745	17.24	18.40	1.306	0.17	0.378	0.494
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	Index 5	132322	1745	21.80	22.70	1.230	-0.03	0.364	0.448
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	Index 5	132322	1745	21.77	22.70	1.239	-0.09	0.321	0.398
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Index 5	132322	1745	21.80	22.70	1.230	0.01	0.393	0.483
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Index 5	132072	1720	21.66	22.70	1.271	-0.12	0.369	0.469
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Index 5	132572	1770	21.63	22.70	1.279	0.17	0.352	0.450
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	Index 5	132322	1745	21.77	22.70	1.239	0.06	0.324	0.401
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	Index 6	132322	1745	21.80	22.00	1.047	-0.03	0.364	0.381
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	Index 6	132322	1745	21.77	22.00	1.054	-0.09	0.321	0.338
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Index 6	132322	1745	21.80	22.00	1.047	0.01	0.393	0.412
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Index 6	132072	1720	21.66	22.00	1.081	-0.12	0.369	0.399
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Index 6	132572	1770	21.63	22.00	1.089	0.17	0.352	0.383
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	Index 6	132322	1745	21.77	22.00	1.054	0.06	0.324	0.342
	LTE Band 66_Ant 5	20M	QPSK	1	0	Front	10mm	Index 5	132322	1745	21.74	23.10	1.368	-0.01	0.219	0.300
	LTE Band 66_Ant 5	20M	QPSK	50	0	Front	10mm	Index 5	132322	1745	21.62	23.10	1.406	0.02	0.195	0.274
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	Index 5	132322	1745	21.74	23.10	1.368	-0.02	0.272	0.372
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	Index 5	132072	1720	21.65	23.10	1.396	-0.15	0.259	0.362
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	Index 5	132572	1770	21.68	23.10	1.387	-0.01	0.227	0.315
	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	Index 5	132322	1745	21.62	23.10	1.406	0.05	0.202	0.284
	LTE Band 66_Ant 5	20M	QPSK	1	0	Front	10mm	Index 6	132322	1745	21.74	22.40	1.164	-0.01	0.219	0.255
	LTE Band 66_Ant 5	20M	QPSK	50	0	Front	10mm	Index 6	132322	1745	21.62	22.40	1.197	0.02	0.195	0.233
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	Index 6	132322	1745	21.74	22.40	1.164	-0.02	0.272	0.317
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	Index 6	132072	1720	21.65	22.40	1.189	-0.15	0.259	0.308
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	Index 6	132572	1770	21.68	22.40	1.180	-0.01	0.227	0.268
	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	Index 6	132322	1745	21.62	22.40	1.197	0.05	0.202	0.242
	LTE Band 71_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5/6	133297	680.5	24.61	25.40	1.199	-0.08	0.288	0.345
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	Index 5/6	133297	680.5	23.60	24.40	1.202	0.02	0.225	0.271
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	Index 5/6	133297	680.5	24.61	25.40	1.199	-0.01	0.294	0.353
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	Index 5/6	133297	680.5	23.60	24.40	1.202	0.01	0.232	0.279
	LTE Band 71_Ant 1	20M	QPSK	1	0	Front	10mm	Index 5/6	133297	680.5	24.45	25.50	1.274	-0.06	0.273	0.348
	LTE Band 71_Ant 1	20M	QPSK	50	0	Front	10mm	Index 5/6	133297	680.5	23.45	24.50	1.274	0.09	0.237	0.302
87	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	Index 5/6	133297	680.5	24.45	25.50	1.274	-0.1	0.316	0.402
	LTE Band 71_Ant 1	20M	QPSK	50	0	Back	10mm	Index 5/6	133297	680.5	23.45	24.50	1.274	-0.03	0.213	0.271



<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	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)
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	39750	2506	22.97	23.90	1.239	62.9	1.006	0.1	0.322	0.401
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	40185	2549.5	22.72	23.90	1.312	62.9	1.006	-0.03	0.353	0.466
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	40620	2593	22.77	23.90	1.297	62.9	1.006	-0.06	0.380	0.496
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	41055	2636.5	22.79	23.90	1.291	62.9	1.006	-0.14	0.336	0.436
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	41490	2680	22.74	23.90	1.306	62.9	1.006	0.19	0.317	0.417
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	Index 5	39750	2506	22.33	22.90	1.140	62.9	1.006	0.03	0.278	0.319
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	Index 5	39750	2506	22.97	23.90	1.239	62.9	1.006	-0.06	0.261	0.325
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	Index 5	39750	2506	22.33	22.90	1.140	62.9	1.006	0	0.225	0.258
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	39750	2506	24.43	25.50	1.279	42.9	1.009	-0.17	0.362	0.467
	LTE Band 38C_Ant 2	20M+20M	QPSK	1	0	Front	10mm	Index 5	38150	2610	22.78	23.90	1.294	62.9	1.006	0.03	0.338	0.440
	LTE Band 41C_Ant 2	20M+20M	QPSK	1	0	Front	10mm	Index 5	39750	2506	22.94	23.90	1.247	62.9	1.006	0.04	0.354	0.444
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	39750	2506	22.97	23.20	1.054	62.9	1.006	0.1	0.322	0.342
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	40185	2549.5	22.72	23.20	1.117	62.9	1.006	-0.03	0.353	0.397
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	40620	2593	22.77	23.20	1.104	62.9	1.006	-0.06	0.380	0.422
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	41055	2636.5	22.79	23.20	1.099	62.9	1.006	-0.14	0.336	0.371
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	41490	2680	22.74	23.20	1.112	62.9	1.006	0.19	0.317	0.355
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	Index 6	39750	2506	22.33	22.90	1.140	62.9	1.006	0.03	0.278	0.319
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	Index 6	39750	2506	22.97	23.20	1.054	62.9	1.006	-0.06	0.261	0.277
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	Index 6	39750	2506	22.33	22.90	1.140	62.9	1.006	0	0.225	0.258
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	39750	2506	24.43	24.80	1.089	42.9	1.009	-0.17	0.362	0.398
	LTE Band 38C_Ant 2	20M+20M	QPSK	1	0	Front	10mm	Index 6	38150	2610	22.78	23.20	1.102	62.9	1.006	0.03	0.338	0.375
	LTE Band 41C_Ant 2	20M+20M	QPSK	1	0	Front	10mm	Index 6	39750	2506	22.94	23.20	1.062	62.9	1.006	0.04	0.354	0.378
88	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	39750	2506	22.10	23.10	1.259	62.9	1.006	0.02	0.511	0.647
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	40185	2549.5	21.62	23.10	1.406	62.9	1.006	-0.18	0.274	0.388
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	40620	2593	21.96	23.10	1.300	62.9	1.006	0.18	0.396	0.518
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	41055	2636.5	21.91	23.10	1.315	62.9	1.006	0.11	0.257	0.340
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	41490	2680	21.92	23.10	1.312	62.9	1.006	0.08	0.283	0.374
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	Index 5	39750	2506	21.60	22.50	1.230	62.9	1.006	-0.14	0.442	0.547
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	Index 5	39750	2506	22.10	23.10	1.259	62.9	1.006	-0.05	0.505	0.640
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	Index 5	39750	2506	21.60	22.50	1.230	62.9	1.006	-0.13	0.436	0.540
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	39750	2506	23.64	24.70	1.276	42.9	1.009	-0.19	0.501	0.645
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	40185	2549.5	23.19	24.70	1.416	62.9	1.006	-0.03	0.266	0.379
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	40620	2593	23.40	24.70	1.349	62.9	1.006	-0.06	0.389	0.528
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	41055	2636.5	23.30	24.70	1.380	62.9	1.006	-0.14	0.243	0.337
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	41490	2680	23.45	24.70	1.334	62.9	1.006	0.19	0.276	0.370
	LTE Band 38C_Ant 0	20M+20M	QPSK	1	0	Front	10mm	Index 5	38150	2610	21.73	23.10	1.371	62.9	1.006	0.01	0.418	0.576
	LTE Band 41C_Ant 0	20M+20M	QPSK	1	0	Front	10mm	Index 5	39750	2506	22.18	23.10	1.236	62.9	1.006	0.04	0.468	0.582
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	39750	2506	22.10	22.40	1.072	62.9	1.006	0.02	0.511	0.551
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	40185	2549.5	21.62	22.40	1.197	62.9	1.006	-0.18	0.274	0.330
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	40620	2593	21.96	22.40	1.107	62.9	1.006	0.18	0.396	0.441
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	41055	2636.5	21.91	22.40	1.119	62.9	1.006	0.11	0.257	0.289
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	41490	2680	21.92	22.40	1.117	62.9	1.006	0.08	0.283	0.318
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	Index 6	39750	2506	21.60	22.40	1.202	62.9	1.006	-0.14	0.442	0.535
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	Index 6	39750	2506	22.10	22.40	1.072	62.9	1.006	0.01	0.473	0.510
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	Index 6	39750	2506	21.60	22.40	1.202	62.9	1.006	-0.13	0.436	0.527
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	39750	2506	23.64	24.00	1.086	42.9	1.009	-0.19	0.501	0.549
	LTE Band 38C_Ant 0	20M+20M	QPSK	1	0	Front	10mm	Index 6	38150	2610	21.73	22.40	1.167	62.9	1.006	0.01	0.418	0.491
	LTE Band 41C_Ant 0	20M+20M	QPSK	1	0	Front	10mm	Index 6	39750	2506	22.18	22.40	1.052	62.9	1.006	0.04	0.468	0.495



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	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)
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	Index 5	56150	3641	20.70	21.40	1.175	62.9	1.006	-0.16	0.171	0.202
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	Index 5	55340	3560	20.55	21.40	1.216	62.9	1.006	-0.08	0.255	0.312
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	Index 5	55830	3609	20.44	21.40	1.247	62.9	1.006	-0.03	0.173	0.217
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	Index 5	56640	3690	20.54	21.40	1.219	62.9	1.006	0.17	0.156	0.191
	LTE Band 48_Ant 6	20M	QPSK	50	0	Front	10mm	Index 5	56150	3641	20.62	21.40	1.197	62.9	1.006	0.1	0.156	0.188
	LTE Band 48_Ant 6	20M	QPSK	1	0	Back	10mm	Index 5	56150	3641	20.70	21.40	1.175	62.9	1.006	-0.03	0.131	0.155
	LTE Band 48_Ant 6	20M	QPSK	50	0	Back	10mm	Index 5	56150	3641	20.62	21.40	1.197	62.9	1.006	-0.1	0.115	0.138
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	Index 6	56150	3641	20.70	20.70	1.000	62.9	1.006	-0.16	0.171	0.172
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	Index 6	55340	3560	20.55	20.70	1.035	62.9	1.006	-0.08	0.255	0.266
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	Index 6	55830	3609	20.44	20.70	1.062	62.9	1.006	-0.03	0.173	0.185
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	Index 6	56640	3690	20.54	20.70	1.038	62.9	1.006	0.17	0.156	0.163
	LTE Band 48_Ant 6	20M	QPSK	50	0	Front	10mm	Index 6	56150	3641	20.62	20.70	1.019	62.9	1.006	0.1	0.156	0.160
	LTE Band 48_Ant 6	20M	QPSK	1	0	Back	10mm	Index 6	56150	3641	20.70	20.70	1.000	62.9	1.006	-0.03	0.131	0.132
	LTE Band 48_Ant 6	20M	QPSK	50	0	Back	10mm	Index 6	56150	3641	20.62	20.70	1.019	62.9	1.006	-0.1	0.115	0.118
	LTE Band 48_Ant 7	20M	QPSK	1	0	Front	10mm	Index 5	56150	3641	23.10	24.40	1.349	62.9	1.006	0.06	0.317	0.430
	LTE Band 48_Ant 7	20M	QPSK	50	0	Front	10mm	Index 5	56150	3641	21.96	23.70	1.493	62.9	1.006	-0.06	0.238	0.357
	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	Index 5	56150	3641	23.10	24.40	1.349	62.9	1.006	0.12	0.469	0.636
	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	Index 5	55340	3560	22.92	24.40	1.406	62.9	1.006	0.16	0.344	0.487
89	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	Index 5	55830	3609	22.88	24.40	1.419	62.9	1.006	-0.05	0.448	0.640
	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	Index 5	56640	3690	22.86	24.40	1.426	62.9	1.006	-0.07	0.411	0.589
	LTE Band 48_Ant 7	20M	QPSK	50	0	Back	10mm	Index 5	56150	3641	21.96	23.70	1.493	62.9	1.006	0.01	0.347	0.521
	LTE Band 48_Ant 7	20M	QPSK	1	0	Front	10mm	Index 6	56150	3641	23.10	23.70	1.148	62.9	1.006	0.06	0.317	0.366
	LTE Band 48_Ant 7	20M	QPSK	50	0	Front	10mm	Index 6	56150	3641	21.96	23.70	1.493	62.9	1.006	-0.06	0.238	0.357
	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	Index 6	56150	3641	23.10	23.70	1.148	62.9	1.006	0.12	0.469	0.542
	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	Index 6	55340	3560	22.92	23.70	1.197	62.9	1.006	0.16	0.344	0.414
	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	Index 6	55830	3609	22.88	23.70	1.208	62.9	1.006	-0.05	0.448	0.544
	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	Index 6	56640	3690	22.86	23.70	1.213	62.9	1.006	-0.07	0.411	0.502
	LTE Band 48_Ant 7	20M	QPSK	50	0	Back	10mm	Index 6	56150	3641	21.96	23.70	1.493	62.9	1.006	0.01	0.347	0.521



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n2_Ant 1	20M	QPSK	1	1	Front	10mm	Index 5	376000	1880	20.58	21.60	1.265	0.04	0.272	0.344
	FR1 n2_Ant 1	20M	QPSK	50	28	Front	10mm	Index 5	376000	1880	20.47	21.60	1.297	0.16	0.268	0.348
	FR1 n2_Ant 1	20M	QPSK	1	1	Back	10mm	Index 5	376000	1880	20.58	21.60	1.265	0.1	0.282	0.357
	FR1 n2_Ant 1	20M	QPSK	1	1	Back	10mm	Index 5	372000	1860	20.48	21.60	1.294	0.18	0.266	0.344
	FR1 n2_Ant 1	20M	QPSK	1	1	Back	10mm	Index 5	380000	1900	20.55	21.60	1.274	0.13	0.459	0.585
	FR1 n2_Ant 1	20M	QPSK	50	28	Back	10mm	Index 5	376000	1880	20.47	21.60	1.297	0.08	0.273	0.354
	FR1 n2_Ant 1	20M	QPSK	1	1	Front	10mm	Index 6	376000	1880	20.58	20.90	1.076	0.04	0.272	0.293
	FR1 n2_Ant 1	20M	QPSK	50	28	Front	10mm	Index 6	376000	1880	20.47	20.90	1.104	0.16	0.268	0.296
	FR1 n2_Ant 1	20M	QPSK	1	1	Back	10mm	Index 6	376000	1880	20.58	20.90	1.076	0.1	0.282	0.304
	FR1 n2_Ant 1	20M	QPSK	1	1	Back	10mm	Index 6	372000	1860	20.48	20.90	1.102	0.18	0.266	0.293
	FR1 n2_Ant 1	20M	QPSK	1	1	Back	10mm	Index 6	380000	1900	20.55	20.90	1.084	0.13	0.459	0.498
	FR1 n2_Ant 1	20M	QPSK	50	28	Back	10mm	Index 6	376000	1880	20.47	20.90	1.104	0.08	0.273	0.301
	FR1 n2_Ant 5	20M	QPSK	1	1	Front	10mm	Index 5	376000	1880	21.45	23.00	1.429	-0.1	0.332	0.474
	FR1 n2_Ant 5	20M	QPSK	50	28	Front	10mm	Index 5	376000	1880	21.43	23.00	1.435	-0.18	0.314	0.451
	FR1 n2_Ant 5	20M	QPSK	1	1	Back	10mm	Index 5	376000	1880	21.45	23.00	1.429	0.17	0.456	0.652
90	FR1 n2_Ant 5	20M	QPSK	1	1	Back	10mm	Index 5	372000	1860	21.36	23.00	1.459	-0.07	0.471	0.687
	FR1 n2_Ant 5	20M	QPSK	1	1	Back	10mm	Index 5	380000	1900	21.42	23.00	1.439	0.02	0.045	0.064
	FR1 n2_Ant 5	20M	QPSK	50	28	Back	10mm	Index 5	376000	1880	21.43	23.00	1.435	-0.02	0.429	0.616
	FR1 n2_Ant 5	20M	QPSK	1	1	Front	10mm	Index 6	376000	1880	21.45	22.30	1.216	-0.1	0.332	0.404
	FR1 n2_Ant 5	20M	QPSK	50	28	Front	10mm	Index 6	376000	1880	21.43	22.30	1.222	-0.18	0.314	0.384
	FR1 n2_Ant 5	20M	QPSK	1	1	Back	10mm	Index 6	376000	1880	21.45	22.30	1.216	0.17	0.456	0.555
	FR1 n2_Ant 5	20M	QPSK	1	1	Back	10mm	Index 6	372000	1860	21.36	22.30	1.242	-0.07	0.471	0.585
	FR1 n2_Ant 5	20M	QPSK	1	1	Back	10mm	Index 6	380000	1900	21.42	22.30	1.225	0.02	0.045	0.055
	FR1 n2_Ant 5	20M	QPSK	50	28	Back	10mm	Index 6	376000	1880	21.43	22.30	1.222	-0.02	0.429	0.524
	FR1 n7_Ant 2	50M	QPSK	1	1	Front	10mm	Index 5	507000	2535	21.94	22.80	1.219	-0.18	0.671	0.818
	FR1 n7_Ant 2	50M	QPSK	135	68	Front	10mm	Index 5	507000	2535	21.87	22.80	1.239	0.02	0.620	0.768
	FR1 n7_Ant 2	50M	QPSK	270	0	Front	10mm	Index 5	507000	2535	21.84	22.80	1.247	0.13	0.595	0.742
	FR1 n7_Ant 2	50M	QPSK	1	1	Back	10mm	Index 5	507000	2535	21.94	22.80	1.219	-0.03	0.488	0.595
	FR1 n7_Ant 2	50M	QPSK	135	68	Back	10mm	Index 5	507000	2535	21.87	22.80	1.239	-0.06	0.467	0.579
	FR1 n7_Ant 2	50M	QPSK	1	1	Front	10mm	Index 6	507000	2535	21.94	22.10	1.038	-0.12	0.671	0.696
	FR1 n7_Ant 2	50M	QPSK	135	68	Front	10mm	Index 6	507000	2535	21.87	22.10	1.054	0.02	0.620	0.654
	FR1 n7_Ant 2	50M	QPSK	1	1	Back	10mm	Index 6	507000	2535	21.94	22.10	1.038	-0.1	0.488	0.506
	FR1 n7_Ant 2	50M	QPSK	135	68	Back	10mm	Index 6	507000	2535	21.87	22.10	1.054	0.04	0.467	0.492
91	FR1 n7_Ant 0	50M	QPSK	1	1	Front	10mm	Index 5	507000	2535	20.95	21.90	1.245	-0.17	0.771	0.960
	FR1 n7_Ant 0	50M	QPSK	135	68	Front	10mm	Index 5	507000	2535	20.53	21.90	1.371	0.09	0.688	0.943
	FR1 n7_Ant 0	50M	QPSK	270	0	Front	10mm	Index 5	507000	2535	20.48	21.90	1.387	0.09	0.675	0.936
	FR1 n7_Ant 0	50M	QPSK	1	1	Back	10mm	Index 5	507000	2535	20.95	21.90	1.245	-0.04	0.602	0.749
	FR1 n7_Ant 0	50M	QPSK	135	68	Back	10mm	Index 5	507000	2535	20.53	21.90	1.371	0.16	0.544	0.746
	FR1 n7_Ant 0	50M	QPSK	1	1	Front	10mm	Index 6	507000	2535	20.95	21.20	1.059	-0.17	0.771	0.817
	FR1 n7_Ant 0	50M	QPSK	135	68	Front	10mm	Index 6	507000	2535	20.53	21.20	1.167	0.09	0.688	0.803
	FR1 n7_Ant 0	50M	QPSK	270	0	Front	10mm	Index 6	507000	2535	20.48	21.20	1.180	0.09	0.675	0.797
	FR1 n7_Ant 0	50M	QPSK	1	1	Back	10mm	Index 6	507000	2535	20.95	21.20	1.059	-0.04	0.602	0.638
	FR1 n7_Ant 0	50M	QPSK	135	68	Back	10mm	Index 6	507000	2535	20.53	21.20	1.167	0.16	0.544	0.635



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n12_Ant 0	15M	QPSK	1	1	Front	10mm	Index 5/6	141500	707.5	24.53	25.40	1.222	-0.14	0.264	0.323
	FR1 n12_Ant 0	15M	QPSK	36	22	Front	10mm	Index 5/6	141500	707.5	24.48	25.40	1.236	0.17	0.255	0.315
92	FR1 n12_Ant 0	15M	QPSK	1	1	Back	10mm	Index 5/6	141500	707.5	24.53	25.40	1.222	-0.17	0.311	0.380
	FR1 n12_Ant 0	15M	QPSK	36	22	Back	10mm	Index 5/6	141500	707.5	24.48	25.40	1.236	-0.07	0.291	0.360
	FR1 n12_Ant 1	15M	QPSK	1	1	Front	10mm	Index 5/6	141500	707.5	24.81	25.20	1.094	-0.02	0.144	0.158
	FR1 n12_Ant 1	15M	QPSK	36	22	Front	10mm	Index 5/6	141500	707.5	24.65	25.20	1.135	0.09	0.120	0.136
	FR1 n12_Ant 1	15M	QPSK	1	1	Back	10mm	Index 5/6	141500	707.5	24.81	25.20	1.094	-0.19	0.243	0.266
	FR1 n12_Ant 1	15M	QPSK	36	22	Back	10mm	Index 5/6	141500	707.5	24.65	25.20	1.135	0.13	0.196	0.222
	FR1 n25_Ant 2	40M	QPSK	1	1	Front	10mm	Index 5	376500	1882.5	19.90	21.30	1.380	-0.13	0.368	0.508
	FR1 n25_Ant 2	40M	QPSK	108	54	Front	10mm	Index 5	376500	1882.5	19.83	21.30	1.403	0.1	0.341	0.478
	FR1 n25_Ant 2	40M	QPSK	1	1	Back	10mm	Index 5	376500	1882.5	19.90	21.30	1.380	-0.13	0.365	0.504
	FR1 n25_Ant 2	40M	QPSK	108	54	Back	10mm	Index 5	376500	1882.5	19.83	21.30	1.403	-0.16	0.343	0.481
	FR1 n25_Ant 2	40M	QPSK	1	1	Front	10mm	Index 6	376500	1882.5	19.90	20.60	1.175	-0.13	0.368	0.432
	FR1 n25_Ant 2	40M	QPSK	108	54	Front	10mm	Index 6	376500	1882.5	19.83	20.60	1.194	0.1	0.341	0.407
	FR1 n25_Ant 2	40M	QPSK	1	1	Back	10mm	Index 6	376500	1882.5	19.90	20.60	1.175	-0.13	0.365	0.429
	FR1 n25_Ant 2	40M	QPSK	108	54	Back	10mm	Index 6	376500	1882.5	19.83	20.60	1.194	-0.16	0.343	0.410
93	FR1 n25_Ant 0	40M	QPSK	1	1	Front	10mm	Index 5	376500	1882.5	19.26	20.60	1.361	-0.14	0.503	0.685
	FR1 n25_Ant 0	40M	QPSK	108	54	Front	10mm	Index 5	376500	1882.5	19.13	20.60	1.403	0.1	0.461	0.647
	FR1 n25_Ant 0	40M	QPSK	1	1	Back	10mm	Index 5	376500	1882.5	19.26	20.60	1.361	-0.06	0.397	0.540
	FR1 n25_Ant 0	40M	QPSK	108	54	Back	10mm	Index 5	376500	1882.5	19.13	20.60	1.403	0.01	0.362	0.508
	FR1 n25_Ant 0	40M	QPSK	1	1	Front	10mm	Index 6	376500	1882.5	19.26	19.90	1.159	-0.14	0.503	0.583
	FR1 n25_Ant 0	40M	QPSK	108	54	Front	10mm	Index 6	376500	1882.5	19.13	19.90	1.194	0.1	0.461	0.550
	FR1 n25_Ant 0	40M	QPSK	1	1	Back	10mm	Index 6	376500	1882.5	19.26	19.90	1.159	-0.06	0.397	0.460
	FR1 n25_Ant 0	40M	QPSK	108	54	Back	10mm	Index 6	376500	1882.5	19.13	19.90	1.194	0.01	0.362	0.432
	FR1 n26_Ant 0	20M	QPSK	1	1	Front	10mm	Index 5/6	166300	831.5	24.49	25.40	1.233	-0.16	0.423	0.522
	FR1 n26_Ant 0	20M	QPSK	50	28	Front	10mm	Index 5/6	166300	831.5	24.48	25.40	1.236	-0.06	0.406	0.502
	FR1 n26_Ant 0	20M	QPSK	1	1	Back	10mm	Index 5/6	166300	831.5	24.49	25.40	1.233	-0.12	0.488	0.602
	FR1 n26_Ant 0	20M	QPSK	50	28	Back	10mm	Index 5/6	166300	831.5	24.48	25.40	1.236	0.09	0.473	0.585
	FR1 n26_Ant 1	20M	QPSK	1	1	Front	10mm	Index 5/6	166300	831.5	24.33	25.40	1.279	-0.11	0.193	0.247
	FR1 n26_Ant 1	20M	QPSK	50	28	Front	10mm	Index 5/6	166300	831.5	24.26	25.40	1.300	0.11	0.188	0.244
94	FR1 n26_Ant 1	20M	QPSK	1	1	Back	10mm	Index 5/6	166300	831.5	24.33	25.40	1.279	-0.15	0.562	0.719
	FR1 n26_Ant 1	20M	QPSK	50	28	Back	10mm	Index 5/6	166300	831.5	24.26	25.40	1.300	0.11	0.513	0.667
	FR1 n30_Ant 2	10M	QPSK	1	1	Front	10mm	Index 5	462000	2310	20.77	22.30	1.422	-0.02	0.396	0.563
	FR1 n30_Ant 2	10M	QPSK	25	14	Front	10mm	Index 5	462000	2310	20.74	22.30	1.432	0	0.341	0.488
	FR1 n30_Ant 2	10M	QPSK	1	1	Back	10mm	Index 5	462000	2310	20.77	22.30	1.422	-0.11	0.271	0.385
	FR1 n30_Ant 2	10M	QPSK	25	14	Back	10mm	Index 5	462000	2310	20.74	22.30	1.432	-0.04	0.255	0.365
	FR1 n30_Ant 2	10M	QPSK	1	1	Front	10mm	Index 6	462000	2310	20.77	21.60	1.211	-0.02	0.396	0.479
	FR1 n30_Ant 2	10M	QPSK	25	14	Front	10mm	Index 6	462000	2310	20.74	21.60	1.219	0	0.341	0.416
	FR1 n30_Ant 2	10M	QPSK	1	1	Back	10mm	Index 6	462000	2310	20.77	21.60	1.211	-0.11	0.271	0.328
	FR1 n30_Ant 2	10M	QPSK	25	14	Back	10mm	Index 6	462000	2310	20.74	21.60	1.219	-0.04	0.255	0.311
	FR1 n30_Ant 0	10M	QPSK	1	1	Front	10mm	Index 5	462000	2310	19.41	20.70	1.346	0.12	0.524	0.705
	FR1 n30_Ant 0	10M	QPSK	25	14	Front	10mm	Index 5	462000	2310	19.36	20.70	1.361	0.12	0.501	0.682
95	FR1 n30_Ant 0	10M	QPSK	1	1	Back	10mm	Index 5	462000	2310	19.41	20.70	1.346	-0.13	0.714	0.961
	FR1 n30_Ant 0	10M	QPSK	25	14	Back	10mm	Index 5	462000	2310	19.36	20.70	1.361	0.03	0.612	0.833
	FR1 n30_Ant 0	10M	QPSK	50	0	Back	10mm	Index 5	462000	2310	19.21	20.70	1.409	0.03	0.593	0.836
	FR1 n30_Ant 0	10M	QPSK	1	1	Front	10mm	Index 6	462000	2310	19.41	20.00	1.146	0.12	0.524	0.600
	FR1 n30_Ant 0	10M	QPSK	25	14	Front	10mm	Index 6	462000	2310	19.36	20.00	1.159	0.12	0.501	0.581
	FR1 n30_Ant 0	10M	QPSK	1	1	Back	10mm	Index 6	462000	2310	19.41	20.00	1.146	-0.13	0.714	0.818
	FR1 n30_Ant 0	10M	QPSK	25	14	Back	10mm	Index 6	462000	2310	19.36	20.00	1.159	0.03	0.612	0.709
	FR1 n30_Ant 0	10M	QPSK	50	0	Back	10mm	Index 6	462000	2310	19.21	20.00	1.199	0.03	0.593	0.711



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n66_Ant 2	40M	QPSK	1	1	Front	10mm	Index 5	349000	1745	21.45	22.80	1.365	-0.07	0.313	0.427
	FR1 n66_Ant 2	40M	QPSK	108	54	Front	10mm	Index 5	349000	1745	21.41	22.80	1.377	0.05	0.298	0.410
	FR1 n66_Ant 2	40M	QPSK	1	1	Back	10mm	Index 5	349000	1745	21.45	22.80	1.365	-0.08	0.441	0.602
	FR1 n66_Ant 2	40M	QPSK	108	54	Back	10mm	Index 5	349000	1745	21.41	22.80	1.377	0.03	0.381	0.525
	FR1 n66_Ant 2	40M	QPSK	1	1	Front	10mm	Index 6	349000	1745	21.45	22.10	1.161	-0.07	0.313	0.364
	FR1 n66_Ant 2	40M	QPSK	108	54	Front	10mm	Index 6	349000	1745	21.41	22.10	1.172	0.05	0.298	0.349
	FR1 n66_Ant 2	40M	QPSK	1	1	Back	10mm	Index 6	349000	1745	21.45	22.10	1.161	-0.08	0.441	0.512
	FR1 n66_Ant 2	40M	QPSK	108	54	Back	10mm	Index 6	349000	1745	21.41	22.10	1.172	0.03	0.381	0.447
96	FR1 n66_Ant 0	40M	QPSK	1	1	Front	10mm	Index 5	349000	1745	18.61	19.60	1.256	-0.06	0.601	0.755
	FR1 n66_Ant 0	40M	QPSK	108	54	Front	10mm	Index 5	349000	1745	18.52	19.60	1.282	-0.14	0.577	0.740
	FR1 n66_Ant 0	40M	QPSK	216	0	Front	10mm	Index 5	349000	1745	18.49	19.60	1.291	0.18	0.527	0.680
	FR1 n66_Ant 0	40M	QPSK	1	1	Back	10mm	Index 5	349000	1745	18.61	19.60	1.256	-0.09	0.344	0.432
	FR1 n66_Ant 0	40M	QPSK	108	54	Back	10mm	Index 5	349000	1745	18.52	19.60	1.282	-0.07	0.322	0.413
	FR1 n66_Ant 0	40M	QPSK	1	1	Front	10mm	Index 6	349000	1745	18.61	18.90	1.069	-0.06	0.601	0.643
	FR1 n66_Ant 0	40M	QPSK	108	54	Front	10mm	Index 6	349000	1745	18.52	18.90	1.091	-0.14	0.577	0.630
	FR1 n66_Ant 0	40M	QPSK	1	1	Back	10mm	Index 6	349000	1745	18.61	18.90	1.069	-0.09	0.344	0.368
	FR1 n66_Ant 0	40M	QPSK	108	54	Back	10mm	Index 6	349000	1745	18.52	18.90	1.091	-0.07	0.322	0.351
	FR1 n66_Ant 1	40M	QPSK	1	1	Front	10mm	Index 5	349000	1745	21.96	23.00	1.271	-0.02	0.378	0.480
	FR1 n66_Ant 1	40M	QPSK	108	54	Front	10mm	Index 5	349000	1745	21.87	23.00	1.297	0.01	0.351	0.455
	FR1 n66_Ant 1	40M	QPSK	1	1	Back	10mm	Index 5	349000	1745	21.96	23.00	1.271	-0.03	0.389	0.494
	FR1 n66_Ant 1	40M	QPSK	108	54	Back	10mm	Index 5	349000	1745	21.87	23.00	1.297	-0.01	0.366	0.475
	FR1 n66_Ant 1	40M	QPSK	1	1	Front	10mm	Index 6	349000	1745	21.96	22.30	1.081	-0.02	0.378	0.409
	FR1 n66_Ant 1	40M	QPSK	108	54	Front	10mm	Index 6	349000	1745	21.87	22.30	1.104	0.01	0.351	0.388
	FR1 n66_Ant 1	40M	QPSK	1	1	Back	10mm	Index 6	349000	1745	21.96	22.30	1.081	-0.03	0.389	0.421
	FR1 n66_Ant 1	40M	QPSK	108	54	Back	10mm	Index 6	349000	1745	21.87	22.30	1.104	-0.01	0.366	0.404
	FR1 n66_Ant 5	40M	QPSK	1	1	Front	10mm	Index 5	349000	1745	22.29	23.30	1.262	-0.1	0.313	0.395
	FR1 n66_Ant 5	40M	QPSK	108	54	Front	10mm	Index 5	349000	1745	22.19	23.30	1.291	-0.19	0.303	0.391
	FR1 n66_Ant 5	40M	QPSK	1	1	Back	10mm	Index 5	349000	1745	22.29	23.30	1.262	-0.15	0.424	0.535
	FR1 n66_Ant 5	40M	QPSK	108	54	Back	10mm	Index 5	349000	1745	22.19	23.30	1.291	-0.19	0.406	0.524
	FR1 n66_Ant 5	40M	QPSK	1	1	Front	10mm	Index 6	349000	1745	22.29	22.60	1.074	-0.1	0.313	0.336
	FR1 n66_Ant 5	40M	QPSK	108	54	Front	10mm	Index 6	349000	1745	22.19	22.60	1.099	-0.19	0.303	0.333
	FR1 n66_Ant 5	40M	QPSK	1	1	Back	10mm	Index 6	349000	1745	22.29	22.60	1.074	-0.15	0.424	0.455
	FR1 n66_Ant 5	40M	QPSK	108	54	Back	10mm	Index 6	349000	1745	22.19	22.60	1.099	-0.19	0.406	0.446
	FR1 n70_Ant 2	15M	QPSK	1	1	Front	10mm	Index 5	340500	1702.5	21.53	23.00	1.403	-0.1	0.359	0.504
	FR1 n70_Ant 2	15M	QPSK	36	22	Front	10mm	Index 5	340500	1702.5	21.52	23.00	1.406	0.12	0.342	0.481
	FR1 n70_Ant 2	15M	QPSK	1	1	Back	10mm	Index 5	340500	1702.5	21.53	23.00	1.403	-0.14	0.361	0.506
	FR1 n70_Ant 2	15M	QPSK	36	22	Back	10mm	Index 5	340500	1702.5	21.52	23.00	1.406	-0.09	0.355	0.499
	FR1 n70_Ant 2	15M	QPSK	1	1	Front	10mm	Index 6	340500	1702.5	21.53	22.30	1.194	-0.1	0.359	0.429
	FR1 n70_Ant 2	15M	QPSK	36	22	Front	10mm	Index 6	340500	1702.5	21.52	22.30	1.197	0.12	0.342	0.409
	FR1 n70_Ant 2	15M	QPSK	1	1	Back	10mm	Index 6	340500	1702.5	21.53	22.30	1.194	-0.14	0.361	0.431
	FR1 n70_Ant 2	15M	QPSK	36	22	Back	10mm	Index 6	340500	1702.5	21.52	22.30	1.197	-0.09	0.355	0.425
97	FR1 n70_Ant 0	15M	QPSK	1	1	Front	10mm	Index 5	340500	1702.5	18.55	19.50	1.245	-0.11	0.470	0.585
	FR1 n70_Ant 0	15M	QPSK	36	22	Front	10mm	Index 5	340500	1702.5	18.52	19.50	1.253	0.16	0.455	0.570
	FR1 n70_Ant 0	15M	QPSK	1	1	Back	10mm	Index 5	340500	1702.5	18.55	19.50	1.245	-0.16	0.388	0.483
	FR1 n70_Ant 0	15M	QPSK	36	22	Back	10mm	Index 5	340500	1702.5	18.52	19.50	1.253	0.01	0.371	0.465
	FR1 n70_Ant 0	15M	QPSK	1	1	Front	10mm	Index 6	340500	1702.5	18.55	18.80	1.059	-0.11	0.470	0.498
	FR1 n70_Ant 0	15M	QPSK	36	22	Front	10mm	Index 6	340500	1702.5	18.52	18.80	1.067	0.16	0.455	0.485
	FR1 n70_Ant 0	15M	QPSK	1	1	Back	10mm	Index 6	340500	1702.5	18.55	18.80	1.059	-0.16	0.388	0.411
	FR1 n70_Ant 0	15M	QPSK	36	22	Back	10mm	Index 6	340500	1702.5	18.52	18.80	1.067	0.01	0.371	0.396



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n71_Ant 0	20M	QPSK	1	1	Front	10mm	Index 5/6	136100	680.5	24.58	25.40	1.208	-0.13	0.224	0.271
	FR1 n71_Ant 0	20M	QPSK	50	28	Front	10mm	Index 5/6	136100	680.5	24.42	25.40	1.253	0.08	0.201	0.252
98	FR1 n71_Ant 0	20M	QPSK	1	1	Back	10mm	Index 5/6	136100	680.5	24.58	25.40	1.208	-0.14	0.260	0.314
	FR1 n71_Ant 0	20M	QPSK	50	28	Back	10mm	Index 5/6	136100	680.5	24.42	25.40	1.253	-0.01	0.223	0.279
	FR1 n71_Ant 1	20M	QPSK	1	1	Front	10mm	Index 5/6	136100	680.5	24.50	25.20	1.175	-0.11	0.129	0.152
	FR1 n71_Ant 1	20M	QPSK	50	28	Front	10mm	Index 5/6	136100	680.5	24.33	25.20	1.222	-0.02	0.108	0.132
	FR1 n71_Ant 1	20M	QPSK	1	1	Back	10mm	Index 5/6	136100	680.5	24.50	25.20	1.175	-0.17	0.235	0.276
	FR1 n71_Ant 1	20M	QPSK	50	28	Back	10mm	Index 5/6	136100	680.5	24.33	25.20	1.222	-0.04	0.143	0.175
	FR1 n41_Ant 2	100M	QPSK	1	1	Front	10mm	Index 5	518598	2592.99	20.65	21.90	1.334	-0.11	0.468	0.624
	FR1 n41_Ant 2	100M	QPSK	135	69	Front	10mm	Index 5	518598	2592.99	20.41	21.90	1.409	0.13	0.418	0.589
	FR1 n41_Ant 2	100M	QPSK	1	1	Back	10mm	Index 5	518598	2592.99	20.65	21.90	1.334	-0.1	0.394	0.525
	FR1 n41_Ant 2	100M	QPSK	135	69	Back	10mm	Index 5	518598	2592.99	20.41	21.90	1.409	0.15	0.352	0.496
	FR1 n41_HPUE_Ant 2	100M	QPSK	1	1	Front	10mm	Index 5	518598	2592.99	23.71	24.90	1.315	0.04	0.432	0.568
	FR1 n41_Ant 2	100M	QPSK	1	1	Front	10mm	Index 6	518598	2592.99	20.65	21.20	1.135	-0.11	0.468	0.531
	FR1 n41_Ant 2	100M	QPSK	135	69	Front	10mm	Index 6	518598	2592.99	20.41	21.20	1.199	0.13	0.418	0.501
	FR1 n41_Ant 2	100M	QPSK	1	1	Back	10mm	Index 6	518598	2592.99	20.65	21.20	1.135	-0.1	0.394	0.447
	FR1 n41_Ant 2	100M	QPSK	135	69	Back	10mm	Index 6	518598	2592.99	20.41	21.20	1.199	0.15	0.352	0.422
	FR1 n41_HPUE_Ant 2	100M	QPSK	1	1	Front	10mm	Index 6	518598	2592.99	23.71	24.20	1.119	0.04	0.412	0.461
99	FR1 n41_Ant 0	100M	QPSK	1	1	Front	10mm	Index 5	518598	2592.99	21.61	22.40	1.199	-0.13	0.815	0.978
	FR1 n41_Ant 0	100M	QPSK	135	69	Front	10mm	Index 5	518598	2592.99	21.43	22.40	1.250	-0.05	0.745	0.931
	FR1 n41_Ant 0	100M	QPSK	270	0	Front	10mm	Index 5	518598	2592.99	21.11	22.40	1.346	0.12	0.706	0.950
	FR1 n41_Ant 0	100M	QPSK	1	1	Back	10mm	Index 5	518598	2592.99	21.61	22.40	1.199	-0.14	0.671	0.805
	FR1 n41_Ant 0	100M	QPSK	135	69	Back	10mm	Index 5	518598	2592.99	21.43	22.40	1.250	-0.1	0.635	0.794
	FR1 n41_HPUE_Ant 0	100M	QPSK	1	1	Front	10mm	Index 5	518598	2592.99	24.60	25.40	1.202	0.06	0.742	0.892
	FR1 n41_Ant 0	100M	QPSK	1	1	Front	10mm	Index 6	518598	2592.99	21.61	21.70	1.021	-0.13	0.815	0.832
	FR1 n41_Ant 0	100M	QPSK	1	1	Front	10mm	Index 6	518598	2592.99	21.61	21.70	1.021	-0.13	0.806	0.823
	FR1 n41_Ant 0	100M	QPSK	135	69	Front	10mm	Index 6	518598	2592.99	21.43	21.70	1.064	-0.05	0.745	0.793
	FR1 n41_Ant 0	100M	QPSK	270	0	Front	10mm	Index 6	518598	2592.99	21.11	21.70	1.146	0.12	0.706	0.809
	FR1 n41_Ant 0	100M	QPSK	1	1	Back	10mm	Index 6	518598	2592.99	21.61	21.70	1.021	-0.14	0.671	0.685
	FR1 n41_Ant 0	100M	QPSK	135	69	Back	10mm	Index 6	518598	2592.99	21.43	21.70	1.064	-0.1	0.635	0.676
	FR1 n41_HPUE_Ant 0	100M	QPSK	1	1	Front	10mm	Index 6	518598	2592.99	24.60	24.70	1.023	0.06	0.722	0.739
	FR1 n41_Ant 1	100M	QPSK	1	1	Front	10mm	Index 5	518598	2592.99	21.7	23	1.349	-0.16	0.305	0.411
	FR1 n41_Ant 1	100M	QPSK	135	69	Front	10mm	Index 5	518598	2592.99	21.62	23	1.374	0.06	0.287	0.394
	FR1 n41_Ant 1	100M	QPSK	1	1	Back	10mm	Index 5	518598	2592.99	21.7	23	1.349	-0.19	0.382	0.515
	FR1 n41_Ant 1	100M	QPSK	135	69	Back	10mm	Index 5	518598	2592.99	21.62	23	1.374	0.04	0.361	0.496
	FR1 n41_HPUE_Ant 1	100M	QPSK	1	1	Back	10mm	Index 5	518598	2592.99	24.82	26	1.312	0.11	0.362	0.475
	FR1 n41_Ant 1	100M	QPSK	1	1	Front	10mm	Index 6	518598	2592.99	21.7	22.3	1.148	-0.16	0.305	0.350
	FR1 n41_Ant 1	100M	QPSK	135	69	Front	10mm	Index 6	518598	2592.99	21.62	22.3	1.169	0.06	0.287	0.336
	FR1 n41_Ant 1	100M	QPSK	1	1	Back	10mm	Index 6	518598	2592.99	21.7	22.3	1.148	-0.19	0.382	0.439
	FR1 n41_Ant 1	100M	QPSK	135	69	Back	10mm	Index 6	518598	2592.99	21.62	22.3	1.169	0.04	0.361	0.422
	FR1 n41_HPUE_Ant 1	100M	QPSK	1	1	Back	10mm	Index 6	518598	2592.99	24.82	25.3	1.117	0.11	0.362	0.404
	FR1 n41_Ant 5	100M	QPSK	1	1	Front	10mm	Index 5	518598	2592.99	21.25	22.3	1.274	-0.04	0.239	0.304
	FR1 n41_Ant 5	100M	QPSK	135	69	Front	10mm	Index 5	518598	2592.99	21.16	22.3	1.300	0.08	0.221	0.287
	FR1 n41_Ant 5	100M	QPSK	1	1	Back	10mm	Index 5	518598	2592.99	21.25	22.3	1.274	-0.04	0.345	0.439
	FR1 n41_Ant 5	100M	QPSK	135	69	Back	10mm	Index 5	518598	2592.99	21.16	22.3	1.300	0.1	0.331	0.430
	FR1 n41_HPUE_Ant 5	100M	QPSK	1	1	Back	10mm	Index 5	518598	2592.99	24.19	25.3	1.291	0.05	0.324	0.418
	FR1 n41_Ant 5	100M	QPSK	1	1	Front	10mm	Index 6	518598	2592.99	21.25	21.6	1.084	-0.04	0.239	0.259
	FR1 n41_Ant 5	100M	QPSK	135	69	Front	10mm	Index 6	518598	2592.99	21.16	21.6	1.107	0.08	0.221	0.245
	FR1 n41_Ant 5	100M	QPSK	1	1	Back	10mm	Index 6	518598	2592.99	21.25	21.6	1.084	-0.04	0.345	0.374
	FR1 n41_Ant 5	100M	QPSK	135	69	Back	10mm	Index 6	518598	2592.99	21.16	21.6	1.107	0.1	0.331	0.366
	FR1 n41_HPUE_Ant 5	100M	QPSK	1	1	Back	10mm	Index 6	518598	2592.99	24.19	24.6	1.099	0.05	0.324	0.356





Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n48_Ant 6	40M	BPSK	1	1	Front	10mm	Index 5	641666	3624.99	18.30	19.80	1.413	0.13	0.156	0.220
	FR1 n48_Ant 6	40M	BPSK	50	25	Front	10mm	Index 5	641666	3624.99	18.29	19.80	1.416	0.08	0.154	0.218
	FR1 n48_Ant 6	40M	BPSK	1	1	Back	10mm	Index 5	641666	3624.99	18.30	19.80	1.413	0.03	0.125	0.177
	FR1 n48_Ant 6	40M	BPSK	50	25	Back	10mm	Index 5	641666	3624.99	18.29	19.80	1.416	0.12	0.119	0.168
	FR1 n48_Ant 6	20M	BPSK	1	1	Front	10mm	Index 5	641666	3624.99	18.27	19.80	1.422	-0.11	0.173	0.246
	FR1 n48_Ant 6	20M	BPSK	25	12	Front	10mm	Index 5	641666	3624.99	18.23	19.80	1.435	0.02	0.161	0.231
	FR1 n48_Ant 6	40M	BPSK	1	1	Front	10mm	Index 6	641666	3624.99	18.30	19.10	1.202	0.13	0.156	0.188
	FR1 n48_Ant 6	40M	BPSK	50	25	Front	10mm	Index 6	641666	3624.99	18.29	19.10	1.205	0.08	0.154	0.186
	FR1 n48_Ant 6	40M	BPSK	1	1	Back	10mm	Index 6	641666	3624.99	18.30	19.10	1.202	0.03	0.125	0.150
	FR1 n48_Ant 6	40M	BPSK	50	25	Back	10mm	Index 6	641666	3624.99	18.29	19.10	1.205	0.12	0.119	0.143
	FR1 n48_Ant 6	20M	BPSK	1	1	Front	10mm	Index 6	641666	3624.99	18.27	19.10	1.211	-0.11	0.173	0.209
	FR1 n48_Ant 6	20M	BPSK	25	12	Front	10mm	Index 6	641666	3624.99	18.23	19.10	1.222	0.02	0.161	0.197
	FR1 n48_Ant 7	40M	BPSK	1	0	Front	10mm	Index 5	641666	3624.99	19.37	20.00	1.156	0.08	0.133	0.154
	FR1 n48_Ant 7	40M	BPSK	50	25	Front	10mm	Index 5	641666	3624.99	20.12	21.00	1.225	-0.12	0.174	0.213
	FR1 n48_Ant 7	40M	BPSK	1	0	Back	10mm	Index 5	641666	3624.99	19.37	20.00	1.156	0.01	0.212	0.245
	FR1 n48_Ant 7	40M	BPSK	50	25	Back	10mm	Index 5	641666	3624.99	20.12	20.30	1.042	-0.13	0.265	0.276
100	FR1 n48_Ant 7	20M	BPSK	1	49	Back	10mm	Index 5	641666	3624.99	20.14	21.00	1.219	-0.17	0.315	0.384
	FR1 n48_Ant 7	20M	BPSK	25	12	Back	10mm	Index 5	641666	3624.99	20.20	21.00	1.202	0.06	0.297	0.357
	FR1 n48_Ant 7	40M	BPSK	1	0	Front	10mm	Index 6	641666	3624.99	19.37	20.00	1.156	0.08	0.133	0.154
	FR1 n48_Ant 7	40M	BPSK	50	25	Front	10mm	Index 6	641666	3624.99	20.12	20.30	1.042	-0.12	0.174	0.181
	FR1 n48_Ant 7	40M	BPSK	1	0	Back	10mm	Index 6	641666	3624.99	19.37	20.00	1.156	0.01	0.212	0.245
	FR1 n48_Ant 7	40M	BPSK	50	25	Back	10mm	Index 6	641666	3624.99	20.12	20.30	1.042	-0.13	0.265	0.276
	FR1 n48_Ant 7	20M	BPSK	1	49	Back	10mm	Index 6	641666	3624.99	20.14	20.30	1.038	-0.17	0.315	0.327
	FR1 n48_Ant 7	20M	BPSK	25	12	Back	10mm	Index 6	641666	3624.99	20.20	20.30	1.023	0.06	0.297	0.304
	FR1 n48_Ant 1	40M	BPSK	1	104	Front	10mm	Index 5	641666	3624.99	20.16	21.20	1.271	-0.12	0.209	0.266
	FR1 n48_Ant 1	40M	BPSK	50	25	Front	10mm	Index 5	641666	3624.99	20.13	21.20	1.279	-0.07	0.200	0.256
	FR1 n48_Ant 1	40M	BPSK	1	104	Back	10mm	Index 5	641666	3624.99	20.16	21.20	1.271	0.16	0.197	0.250
	FR1 n48_Ant 1	40M	BPSK	50	25	Back	10mm	Index 5	641666	3624.99	20.13	21.20	1.279	-0.02	0.191	0.244
	FR1 n48_Ant 1	20M	BPSK	1	1	Front	10mm	Index 5	641666	3624.99	20.23	21.20	1.250	0.01	0.197	0.246
	FR1 n48_Ant 1	20M	BPSK	25	12	Front	10mm	Index 5	641666	3624.99	20.04	21.20	1.306	0.08	0.188	0.246
	FR1 n48_Ant 1	40M	BPSK	1	104	Front	10mm	Index 6	641666	3624.99	20.16	20.60	1.107	-0.12	0.209	0.231
	FR1 n48_Ant 1	40M	BPSK	50	25	Front	10mm	Index 6	641666	3624.99	20.13	20.60	1.114	-0.07	0.200	0.223
	FR1 n48_Ant 1	40M	BPSK	1	104	Back	10mm	Index 6	641666	3624.99	20.16	20.60	1.107	0.16	0.197	0.218
	FR1 n48_Ant 1	40M	BPSK	50	25	Back	10mm	Index 6	641666	3624.99	20.13	20.60	1.114	-0.02	0.191	0.213
	FR1 n48_Ant 1	20M	BPSK	1	1	Front	10mm	Index 6	641666	3624.99	20.23	20.60	1.089	0.01	0.197	0.215
	FR1 n48_Ant 1	20M	BPSK	25	12	Front	10mm	Index 6	641666	3624.99	20.04	20.60	1.138	0.08	0.188	0.214
	FR1 n48_Ant 5	40M	BPSK	1	1	Front	10mm	Index 5	641666	3624.99	21.23	22.50	1.340	-0.05	0.134	0.180
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	Index 5	641666	3624.99	21.01	22.50	1.409	0.03	0.120	0.169
	FR1 n48_Ant 5	40M	BPSK	1	1	Back	10mm	Index 5	641666	3624.99	21.23	22.50	1.340	-0.01	0.135	0.181
	FR1 n48_Ant 5	40M	BPSK	50	25	Back	10mm	Index 5	641666	3624.99	21.01	22.50	1.409	-0.17	0.123	0.173
	FR1 n48_Ant 5	20M	BPSK	1	1	Back	10mm	Index 5	641666	3624.99	21.20	22.50	1.349	-0.12	0.120	0.162
	FR1 n48_Ant 5	20M	BPSK	25	12	Back	10mm	Index 5	641666	3624.99	20.96	22.50	1.426	-0.06	0.110	0.157
	FR1 n48_Ant 5	40M	BPSK	1	1	Front	10mm	Index 6	641666	3624.99	21.23	21.80	1.140	-0.05	0.134	0.153
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	Index 6	641666	3624.99	21.01	21.80	1.199	0.03	0.120	0.144
	FR1 n48_Ant 5	40M	BPSK	1	1	Back	10mm	Index 6	641666	3624.99	21.23	21.80	1.140	-0.01	0.135	0.154
	FR1 n48_Ant 5	40M	BPSK	50	25	Back	10mm	Index 6	641666	3624.99	21.01	21.80	1.199	-0.17	0.123	0.148
	FR1 n48_Ant 5	20M	BPSK	1	1	Back	10mm	Index 6	641666	3624.99	21.20	21.80	1.148	-0.12	0.120	0.138
	FR1 n48_Ant 5	20M	BPSK	25	12	Back	10mm	Index 6	641666	3624.99	20.96	21.80	1.213	-0.06	0.110	0.133



# FCC SAR TEST REPORT

Report No. : FA2D0206-01F

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77_Ant 6	100M	QPSK	1	1	Front	10mm	Index 5	656000	3840	21.55	22.40	1.216	0	0.339	0.412
	FR1 n77_Ant 6	100M	QPSK	135	69	Front	10mm	Index 5	656000	3840	21.48	22.40	1.236	-0.1	0.296	0.366
	FR1 n77_Ant 6	100M	QPSK	1	1	Back	10mm	Index 5	656000	3840	21.55	22.40	1.216	-0.01	0.328	0.399
	FR1 n77_Ant 6	100M	QPSK	135	69	Back	10mm	Index 5	656000	3840	21.48	22.40	1.236	0.18	0.271	0.335
	FR1 n77_HPUE_Ant 6	100M	QPSK	1	1	Front	10mm	Index 5	656000	3840	24.13	25.40	1.340	-0.14	0.275	0.368
	FR1 n77_Ant 6	100M	QPSK	1	1	Front	10mm	Index 6	656000	3840	21.55	21.70	1.035	0	0.339	0.351
	FR1 n77_Ant 6	100M	QPSK	135	69	Front	10mm	Index 6	656000	3840	21.48	21.70	1.052	-0.1	0.296	0.311
	FR1 n77_Ant 6	100M	QPSK	1	1	Back	10mm	Index 6	656000	3840	21.55	21.70	1.035	-0.01	0.328	0.340
	FR1 n77_Ant 6	100M	QPSK	135	69	Back	10mm	Index 6	656000	3840	21.48	21.70	1.052	0.18	0.271	0.285
	FR1 n77_HPUE_Ant 6	100M	QPSK	1	1	Front	10mm	Index 6	656000	3840	24.13	24.70	1.140	-0.14	0.275	0.314
	FR1 n77_Ant 6	100M	QPSK	1	1	Front	10mm	Index 5	633332	3499.98	21.62	22.40	1.197	-0.02	0.361	0.432
	FR1 n77_Ant 6	100M	QPSK	135	69	Front	10mm	Index 5	633332	3499.98	21.38	22.40	1.265	-0.17	0.313	0.396
	FR1 n77_Ant 6	100M	QPSK	1	1	Back	10mm	Index 5	633332	3499.98	21.62	22.40	1.197	-0.05	0.239	0.286
	FR1 n77_Ant 6	100M	QPSK	135	69	Back	10mm	Index 5	633332	3499.98	21.38	22.40	1.265	0.07	0.217	0.274
	FR1 n77_HPUE_Ant 6	100M	QPSK	1	1	Front	10mm	Index 5	633332	3499.98	24.53	25.40	1.222	-0.09	0.347	0.424
	FR1 n77_Ant 6	100M	QPSK	1	1	Front	10mm	Index 6	633332	3499.98	21.62	21.70	1.019	-0.02	0.361	0.368
	FR1 n77_Ant 6	100M	QPSK	135	69	Front	10mm	Index 6	633332	3499.98	21.38	21.70	1.076	-0.17	0.313	0.337
	FR1 n77_Ant 6	100M	QPSK	1	1	Back	10mm	Index 6	633332	3499.98	21.62	21.70	1.019	-0.05	0.239	0.243
	FR1 n77_Ant 6	100M	QPSK	135	69	Back	10mm	Index 6	633332	3499.98	21.38	21.70	1.076	0.07	0.217	0.234
	FR1 n77_HPUE_Ant 6	100M	QPSK	1	1	Front	10mm	Index 6	633332	3499.98	24.53	24.70	1.040	-0.09	0.347	0.361
	FR1 n77_Ant 7	100M	QPSK	1	1	Front	10mm	Index 5/6	656000	3840	22.68	24.00	1.355	-0.04	0.340	0.461
	FR1 n77_Ant 7	100M	QPSK	135	69	Front	10mm	Index 5/6	656000	3840	22.32	24.00	1.472	-0.09	0.311	0.458
101	FR1 n77_Ant 7	100M	QPSK	1	1	Back	10mm	Index 5/6	656000	3840	22.68	24.00	1.355	-0.09	0.462	0.626
	FR1 n77_Ant 7	100M	QPSK	135	69	Back	10mm	Index 5/6	656000	3840	22.32	24.00	1.472	-0.19	0.420	0.618
	FR1 n77_HPUE_Ant 7	100M	QPSK	1	1	Back	10mm	Index 5/6	656000	3840	25.30	26.40	1.288	-0.07	0.459	0.591
	FR1 n77_Ant 7	100M	QPSK	1	1	Front	10mm	Index 5/6	633332	3499.98	23.05	24.00	1.245	0.01	0.236	0.294
	FR1 n77_Ant 7	100M	QPSK	135	69	Front	10mm	Index 5/6	633332	3499.98	22.58	24.00	1.387	0	0.203	0.282
	FR1 n77_Ant 7	100M	QPSK	1	1	Back	10mm	Index 5/6	633332	3499.98	23.05	24.00	1.245	-0.09	0.264	0.329
	FR1 n77_Ant 7	100M	QPSK	135	69	Back	10mm	Index 5/6	633332	3499.98	22.58	24.00	1.387	0.01	0.227	0.315
	FR1 n77_HPUE_Ant 7	100M	QPSK	1	1	Back	10mm	Index 5/6	633332	3499.98	25.72	26.40	1.169	-0.18	0.226	0.264
	FR1 n77_Ant 1	100M	QPSK	1	1	Front	10mm	Index 5	656000	3840	20.74	21.7	1.247	-0.04	0.252	0.314
	FR1 n77_Ant 1	100M	QPSK	135	69	Front	10mm	Index 5	656000	3840	20.62	21.7	1.282	-0.11	0.225	0.289
	FR1 n77_Ant 1	100M	QPSK	1	1	Back	10mm	Index 5	656000	3840	20.74	21.7	1.247	-0.08	0.397	0.495
	FR1 n77_Ant 1	100M	QPSK	135	69	Back	10mm	Index 5	656000	3840	20.62	21.7	1.282	-0.11	0.357	0.458
	FR1 n77_HPUE_Ant 1	100M	QPSK	1	1	Back	10mm	Index 5	656000	3840	23.65	24.7	1.274	0.14	0.362	0.461
	FR1 n77_Ant 1	100M	QPSK	1	1	Front	10mm	Index 6	656000	3840	20.74	21	1.062	-0.04	0.252	0.268
	FR1 n77_Ant 1	100M	QPSK	135	69	Front	10mm	Index 6	656000	3840	20.62	21	1.091	-0.11	0.225	0.246
	FR1 n77_Ant 1	100M	QPSK	1	1	Back	10mm	Index 6	656000	3840	20.74	21	1.062	-0.08	0.397	0.421
	FR1 n77_Ant 1	100M	QPSK	135	69	Back	10mm	Index 6	656000	3840	20.62	21	1.091	-0.11	0.357	0.390
	FR1 n77_HPUE_Ant 1	100M	QPSK	1	1	Back	10mm	Index 6	656000	3840	23.65	24	1.084	0.14	0.362	0.392
	FR1 n77_Ant 1	100M	QPSK	1	1	Front	10mm	Index 5	633332	3499.98	20.55	21.7	1.303	0.01	0.207	0.270
	FR1 n77_Ant 1	100M	QPSK	135	69	Front	10mm	Index 5	633332	3499.98	20.42	21.7	1.343	-0.02	0.174	0.234
	FR1 n77_Ant 1	100M	QPSK	1	1	Back	10mm	Index 5	633332	3499.98	20.55	21.7	1.303	0	0.245	0.319
	FR1 n77_Ant 1	100M	QPSK	135	69	Back	10mm	Index 5	633332	3499.98	20.42	21.7	1.343	0.15	0.213	0.286
	FR1 n77_HPUE_Ant 1	100M	QPSK	1	1	Back	10mm	Index 5	633332	3499.98	23.42	24.7	1.343	-0.06	0.217	0.291
	FR1 n77_Ant 1	100M	QPSK	1	1	Front	10mm	Index 6	633332	3499.98	20.55	21	1.109	0.01	0.207	0.230
	FR1 n77_Ant 1	100M	QPSK	135	69	Front	10mm	Index 6	633332	3499.98	20.42	21	1.143	-0.02	0.174	0.199
	FR1 n77_Ant 1	100M	QPSK	1	1	Back	10mm	Index 6	633332	3499.98	20.55	21	1.109	0	0.245	0.272
	FR1 n77_Ant 1	100M	QPSK	135	69	Back	10mm	Index 6	633332	3499.98	20.42	21	1.143	0.15	0.213	0.243
	FR1 n77_HPUE_Ant 1	100M	QPSK	1	1	Back	10mm	Index 6	633332	3499.98	23.42	24	1.143	-0.06	0.217	0.248
	FR1 n77_Ant 5	100M	QPSK	1	1	Front	10mm	Index 5	656000	3840	22.27	23.60	1.358	0.19	0.161	0.219
	FR1 n77_Ant 5	100M	QPSK	135	69	Front	10mm	Index 5	656000	3840	22.2	23.60	1.380	0.17	0.128	0.177



**FCC SAR TEST REPORT**

**Report No. : FA2D0206-01F**

FR1 n77_Ant 5	100M	QPSK	1	1	Back	10mm	Index 5	656000	3840	22.27	23.60	1.358	0.06	0.157	0.213
FR1 n77_Ant 5	100M	QPSK	135	69	Back	10mm	Index 5	656000	3840	22.2	23.60	1.380	-0.06	0.130	0.179
FR1 n77_HPUE_Ant 5	100M	QPSK	1	1	Front	10mm	Index 5	656000	3840	25.05	26.6	1.429	0.12	0.148	0.211
FR1 n77_Ant 5	100M	QPSK	1	1	Front	10mm	Index 6	656000	3840	22.27	22.90	1.156	0.19	0.161	0.186
FR1 n77_Ant 5	100M	QPSK	135	69	Front	10mm	Index 6	656000	3840	22.2	22.90	1.175	0.17	0.128	0.150
FR1 n77_Ant 5	100M	QPSK	1	1	Back	10mm	Index 6	656000	3840	22.27	22.90	1.156	0.06	0.157	0.182
FR1 n77_Ant 5	100M	QPSK	135	69	Back	10mm	Index 6	656000	3840	22.2	22.90	1.175	-0.06	0.130	0.153
FR1 n77_HPUE_Ant 5	100M	QPSK	1	1	Front	10mm	Index 6	656000	3840	25.05	25.90	1.216	0.12	0.148	0.180
FR1 n77_Ant 5	100M	QPSK	1	1	Front	10mm	Index 5	633332	3499.98	22.36	23.60	1.330	-0.01	0.174	0.231
FR1 n77_Ant 5	100M	QPSK	135	69	Front	10mm	Index 5	633332	3499.98	22.22	23.60	1.374	0.05	0.123	0.169
FR1 n77_Ant 5	100M	QPSK	1	1	Back	10mm	Index 5	633332	3499.98	22.36	23.60	1.330	-0.04	0.159	0.212
FR1 n77_Ant 5	100M	QPSK	135	69	Back	10mm	Index 5	633332	3499.98	22.22	23.60	1.374	-0.12	0.138	0.190
FR1 n77_HPUE_Ant 5	100M	QPSK	1	1	Front	10mm	Index 5	633332	3499.98	25.34	26.6	1.337	-0.14	0.164	0.219
FR1 n77_Ant 5	100M	QPSK	1	1	Front	10mm	Index 6	633332	3499.98	22.36	22.90	1.132	-0.01	0.174	0.197
FR1 n77_Ant 5	100M	QPSK	135	69	Front	10mm	Index 6	633332	3499.98	22.22	22.90	1.169	0.05	0.123	0.144
FR1 n77_Ant 5	100M	QPSK	1	1	Back	10mm	Index 6	633332	3499.98	22.36	22.90	1.132	-0.04	0.159	0.180
FR1 n77_Ant 5	100M	QPSK	135	69	Back	10mm	Index 6	633332	3499.98	22.22	22.90	1.169	-0.12	0.138	0.161
FR1 n77_HPUE_Ant 5	100M	QPSK	1	1	Front	10mm	Index 6	633332	3499.98	25.34	25.9	1.138	-0.14	0.164	0.187



<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
102	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	Index 5	11	2462	22.40	22.50	1.023	98.90	1.011	0.04	0.807	0.835
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 5	11	2462	22.40	22.50	1.023	98.90	1.011	-0.02	0.988	1.022
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 5	1	2412	22.30	22.50	1.047	98.90	1.011	-0.03	0.724	0.766
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 5	6	2437	22.20	22.50	1.072	98.90	1.011	-0.01	0.831	0.900
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	Index 6/7	11	2462	19.90	20.00	1.023	98.90	1.011	0.02	0.298	0.308
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 6/7	11	2462	19.90	20.00	1.023	98.90	1.011	-0.11	0.303	0.313
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 6/7	1	2412	19.80	20.00	1.047	98.90	1.011	-0.01	0.353	0.374
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 6/7	6	2437	19.70	20.00	1.072	98.90	1.011	-0.01	0.359	0.389
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	Index 8	11	2462	17.50	17.50	1.000	98.90	1.011	-0.01	0.174	0.176
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 8	11	2462	17.50	17.50	1.000	98.90	1.011	-0.05	0.212	0.214
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 8	1	2412	17.30	17.50	1.047	98.90	1.011	0.02	0.189	0.200
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 8	6	2437	17.20	17.50	1.072	98.90	1.011	-0.03	0.207	0.224
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	Index 5/6/7	1	2412	22.40	22.50	1.023	98.90	1.011	-0.02	0.350	0.362
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	Index 5/6/7	1	2412	22.40	22.50	1.023	98.90	1.011	-0.02	0.443	0.458
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	Index 5/6/7	6	2437	22.30	22.50	1.047	98.90	1.011	-0.04	0.368	0.390
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	Index 5/6/7	11	2462	22.30	22.50	1.047	98.90	1.011	-0.02	0.364	0.385
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	Index 8	11	2462	19.20	19.50	1.072	98.90	1.011	-0.03	0.128	0.139
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	Index 8	11	2462	19.20	19.50	1.072	98.90	1.011	-0.02	0.163	0.177
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	Index 8	1	2412	19.10	19.50	1.096	98.90	1.011	-0.01	0.147	0.163
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	Index 8	6	2437	18.90	19.50	1.148	98.90	1.011	-0.02	0.152	0.176
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3(4)	Index 5	6	2437	22.00	22.00	1.000	93.46	1.070	-0.09	0.687	0.735
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3(3)	Index 5	6	2437	21.30	22.00	1.175	93.46	1.070	0.1	0.231	0.290
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 5	6	2437	22.00	22.00	1.000	93.46	1.070	0.01	0.889	0.951
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 5	6	2437	21.30	22.00	1.175	93.46	1.070	0.01	0.310	0.390
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 5	1	2412	21.20	22.00	1.202	93.46	1.070	0.15	0.655	0.843
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 5	1	2412	20.70	22.00	1.349	93.46	1.070	-0.04	0.309	0.446
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 5	11	2462	18.90	19.00	1.023	93.46	1.070	-0.03	0.512	0.561
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 5	11	2462	18.50	19.00	1.122	93.46	1.070	-0.03	0.244	0.293
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3(4)	Index 6/7	6	2437	18.90	19.00	1.023	93.46	1.070	-0.03	0.357	0.391
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3(3)	Index 6/7	6	2437	18.40	19.00	1.148	93.46	1.070	-0.02	0.141	0.173
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 6/7	6	2437	18.90	19.00	1.023	93.46	1.070	0	0.398	0.436
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 6/7	6	2437	18.40	19.00	1.148	93.46	1.070	-0.01	0.142	0.174
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 6/7	1	2412	18.80	19.00	1.047	93.46	1.070	-0.02	0.238	0.267
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 6/7	1	2412	18.50	19.00	1.122	93.46	1.070	-0.01	0.097	0.116
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 6/7	11	2462	18.70	19.00	1.072	93.46	1.070	0	0.345	0.396
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 6/7	11	2462	18.50	19.00	1.122	93.46	1.070	-0.02	0.135	0.162
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3(4)	Index 8	6	2437	15.00	15.00	1.000	93.46	1.070	0.01	0.098	0.105
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3(3)	Index 8	6	2437	14.60	15.00	1.096	93.46	1.070	-0.03	0.049	0.057
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 8	6	2437	15.00	15.00	1.000	93.46	1.070	-0.02	0.148	0.158
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 8	6	2437	14.60	15.00	1.096	93.46	1.070	-0.01	0.053	0.062
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 8	1	2412	14.30	15.00	1.175	93.46	1.070	-0.02	0.109	0.137
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 8	1	2412	14.00	15.00	1.259	93.46	1.070	-0.01	0.046	0.062
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 8	11	2462	14.60	15.00	1.096	93.46	1.070	-0.06	0.117	0.137
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 8	11	2462	14.40	15.00	1.148	93.46	1.070	0.01	0.050	0.061



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
103	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+3(4)	Index 5	54	5270	19.90	20.00	1.023	96.15	1.040	0.18	0.122	0.130
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+3(3)	Index 5	54	5270	19.60	20.00	1.096	96.15	1.040	0.12	0.230	0.262
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(4)	Index 5	54	5270	19.90	20.00	1.023	96.15	1.040	-0.14	0.263	0.280
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(3)	Index 5	54	5270	19.60	20.00	1.096	96.15	1.040	-0.09	0.180	0.205
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(4)	Index 5	62	5310	14.00	14.50	1.122	96.15	1.040	-0.09	0.124	0.145
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(3)	Index 5	62	5310	13.70	14.50	1.202	96.15	1.040	-0.08	0.091	0.114
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+3(4)	Index 6/7/8/9	54	5270	18.80	19.00	1.047	96.15	1.040	0.18	0.115	0.125
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+3(3)	Index 6/7/8/9	54	5270	18.60	19.00	1.096	96.15	1.040	0.12	0.199	0.227
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(4)	Index 6/7/8/9	54	5270	18.80	19.00	1.047	96.15	1.040	-0.02	0.250	0.272
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(3)	Index 6/7/8/9	54	5270	18.60	19.00	1.096	96.15	1.040	-0.01	0.134	0.153
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(4)	Index 6/7/8/9	62	5310	14.00	14.50	1.122	96.15	1.040	-0.09	0.124	0.145
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(3)	Index 6/7/8/9	62	5310	13.70	14.50	1.202	96.15	1.040	-0.08	0.091	0.114
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(4)	Index 5/6/7	122	5610	19.90	20.00	1.023	85.54	1.169	0.02	0.126	0.151
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(3)	Index 5/6/7	122	5610	19.60	20.00	1.096	85.54	1.169	-0.05	0.311	0.399
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	Index 5/6/7	122	5610	19.90	20.00	1.023	85.54	1.169	-0.04	0.357	0.427
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	Index 5/6/7	122	5610	19.60	20.00	1.096	85.54	1.169	-0.01	0.272	0.349
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	Index 5/6/7	106	5530	15.10	15.50	1.096	85.54	1.169	0.01	0.058	0.074
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	Index 5/6/7	106	5530	15.00	15.50	1.122	85.54	1.169	0.01	0.063	0.083
104	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	Index 5/6/7	138	5690	19.80	20.00	1.047	85.54	1.169	-0.12	0.390	0.477
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	Index 5/6/7	138	5690	19.60	20.00	1.096	85.54	1.169	-0.1	0.193	0.247
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(4)	Index 8/9	122	5610	18.90	19.00	1.023	85.54	1.169	0.04	0.092	0.110
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(3)	Index 8/9	122	5610	18.70	19.00	1.072	85.54	1.169	0.03	0.213	0.267
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	Index 8/9	122	5610	18.90	19.00	1.023	85.54	1.169	0.07	0.262	0.313
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	Index 8/9	122	5610	18.70	19.00	1.072	85.54	1.169	-0.18	0.186	0.233
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	Index 8/9	106	5530	15.10	15.50	1.096	85.54	1.169	0.01	0.058	0.074
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	Index 8/9	106	5530	15.00	15.50	1.122	85.54	1.169	0.01	0.063	0.083
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	Index 8/9	138	5690	18.80	19.00	1.047	85.54	1.169	-0.02	0.286	0.350
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	Index 8/9	138	5690	18.70	19.00	1.072	85.54	1.169	-0.05	0.166	0.208
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(4)	Index 5/6/7	155	5775	19.20	20.00	1.202	85.54	1.169	-0.12	0.090	0.126
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(3)	Index 5/6/7	155	5775	19.80	20.00	1.047	85.54	1.169	-0.13	0.153	0.187
105	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	Index 5/6/7	155	5775	19.20	20.00	1.202	85.54	1.169	-0.11	0.431	0.606
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	Index 5/6/7	155	5775	19.80	20.00	1.047	85.54	1.169	-0.14	0.171	0.209
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(4)	Index 8/9	155	5775	18.40	19.00	1.148	85.54	1.169	-0.15	0.066	0.089
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(3)	Index 8/9	155	5775	18.80	19.00	1.047	85.54	1.169	-0.15	0.109	0.133
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	Index 8/9	155	5775	18.40	19.00	1.148	85.54	1.169	-0.05	0.291	0.391
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	Index 8/9	155	5775	18.80	19.00	1.047	85.54	1.169	-0.15	0.116	0.142
106	WLAN5GHz	802.11ac-VHT160 MCS0	Front	10mm	Ant 4+3(4)	Index 5/6/7	163	5815	18.20	19.50	1.349	87.95	1.137	-0.01	0.125	0.192
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	10mm	Ant 4+3(3)	Index 5/6/7	163	5815	18.80	19.50	1.175	87.95	1.137	-0.08	0.162	0.216
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	10mm	Ant 4+3(4)	Index 5/6/7	163	5815	18.20	19.50	1.349	87.95	1.137	0.1	0.465	0.713
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	10mm	Ant 4+3(3)	Index 5/6/7	163	5815	18.80	19.50	1.175	87.95	1.137	-0.17	0.190	0.254
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	10mm	Ant 4+3(4)	Index 8/9	163	5815	18.10	18.50	1.096	87.95	1.137	0.02	0.085	0.106
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	10mm	Ant 4+3(3)	Index 8/9	163	5815	18.30	18.50	1.047	87.95	1.137	0.02	0.116	0.138
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	10mm	Ant 4+3(4)	Index 8/9	163	5815	18.10	18.50	1.096	87.95	1.137	-0.07	0.321	0.400
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	10mm	Ant 4+3(3)	Index 8/9	163	5815	18.30	18.50	1.047	87.95	1.137	-0.05	0.143	0.170



<6GHzWLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)	Measured APD (W/m <sup>2</sup> )	Reported APD (W/m <sup>2</sup> )
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 4+3(4)	Index 5/6/7/8/9	207	6985	18.70	19.50	1.202	86.11	1.161	-0.07	0.040	0.056	0.315	0.440
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 4+3(3)	Index 5/6/7/8/9	207	6985	19.30	19.50	1.047	86.11	1.161	-0.06	0.043	0.052	0.336	0.408
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 4+3(4)	Index 5/6/7/8/9	207	6985	18.70	19.50	1.202	86.11	1.161	-0.1	0.075	0.105	0.460	0.642
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 4+3(3)	Index 5/6/7/8/9	207	6985	19.30	19.50	1.047	86.11	1.161	-0.08	0.073	0.089	0.566	0.688
107	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 4+3(4)	Index 5/6/7/8/9	15	6025	15.30	15.50	1.047	86.11	1.161	-0.08	0.220	0.267	1.580	1.921
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 4+3(3)	Index 5/6/7/8/9	15	6025	15.00	15.50	1.122	86.11	1.161	-0.09	0.085	0.111	0.660	0.860
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 4+3(4)	Index 5/6/7/8/9	47	6185	15.20	15.50	1.072	86.11	1.161	-0.05	0.079	0.098	0.551	0.685
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 4+3(3)	Index 5/6/7/8/9	47	6185	15.10	15.50	1.096	86.11	1.161	0.02	0.038	0.048	0.279	0.355
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 4+3(4)	Index 5/6/7/8/9	111	6505	15.40	16.00	1.148	86.11	1.161	0.01	0.017	0.023	0.116	0.155
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 4+3(3)	Index 5/6/7/8/9	111	6505	15.90	16.00	1.023	86.11	1.161	0.05	0.032	0.038	0.232	0.276
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 4+3(4)	Index 5/6/7/8/9	143	6665	16.70	17.00	1.072	86.11	1.161	-0.12	0.024	0.030	0.152	0.189
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 4+3(3)	Index 5/6/7/8/9	143	6665	16.90	17.00	1.023	86.11	1.161	-0.15	0.079	0.094	0.625	0.743

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	Bluetooth	1Mbps	Front	10mm	Ant 4	Index 2	78	2480	19.38	20.00	1.153	76.86	1.084	-0.13	0.168	0.210
	Bluetooth	1Mbps	Back	10mm	Ant 4	Index 2	78	2480	19.38	20.00	1.153	76.86	1.084	0	0.215	0.269
108	Bluetooth	1Mbps	Back	10mm	Ant 4	Index 2	0	2402	19.28	20.00	1.180	76.86	1.084	-0.14	0.274	0.350
	Bluetooth	1Mbps	Back	10mm	Ant 4	Index 2	39	2441	19.31	20.00	1.172	76.86	1.084	-0.19	0.270	0.343
	Bluetooth	1Mbps	Front	10mm	Ant 4	Index 3/4	78	2480	18.40	18.50	1.023	76.86	1.084	-0.04	0.152	0.169
	Bluetooth	1Mbps	Back	10mm	Ant 4	Index 3/4	78	2480	18.40	18.50	1.023	76.86	1.084	-0.02	0.209	0.232
	Bluetooth	1Mbps	Back	10mm	Ant 4	Index 3/4	0	2402	18.20	18.50	1.072	76.86	1.084	0.1	0.190	0.221
	Bluetooth	1Mbps	Back	10mm	Ant 4	Index 3/4	39	2441	18.30	18.50	1.047	76.86	1.084	0.09	0.194	0.220
	Bluetooth	1Mbps	Front	10mm	Ant 3	Index 2/3/4	0	2402	20.27	21.00	1.183	77.07	1.081	0.06	0.093	0.119
	Bluetooth	1Mbps	Back	10mm	Ant 3	Index 2/3/4	0	2402	20.27	21.00	1.183	77.07	1.081	-0.16	0.110	0.141
	Bluetooth	1Mbps	Back	10mm	Ant 3	Index 2/3/4	39	2441	20.24	21.00	1.191	77.07	1.081	-0.15	0.155	0.200
	Bluetooth	1Mbps	Back	10mm	Ant 3	Index 2/3/4	78	2480	20.13	21.00	1.221	77.07	1.081	-0.17	0.146	0.193
	Bluetooth	1Mbps	Front	10mm	Ant 4+3(4)	Index 2/3/4	78	2480	16.81	18.50	1.474	77.07	1.081	-0.07	0.105	0.167
	Bluetooth	1Mbps	Front	10mm	Ant 4+3(3)	Index 2/3/4	78	2480	17.31	18.50	1.314	77.07	1.081	0.06	0.052	0.074
	Bluetooth	1Mbps	Back	10mm	Ant 4+3(4)	Index 2/3/4	78	2480	16.81	18.50	1.474	77.07	1.081	-0.06	0.063	0.100
	Bluetooth	1Mbps	Back	10mm	Ant 4+3(3)	Index 2/3/4	78	2480	17.31	18.50	1.314	77.07	1.081	-0.01	0.126	0.179
	Bluetooth	1Mbps	Back	10mm	Ant 4+3(4)	Index 2/3/4	0	2402	16.64	18.50	1.534	77.07	1.081	-0.02	0.193	0.320
	Bluetooth	1Mbps	Back	10mm	Ant 4+3(3)	Index 2/3/4	0	2402	17.29	18.50	1.320	77.07	1.081	-0.02	0.109	0.156
	Bluetooth	1Mbps	Back	10mm	Ant 4+3(4)	Index 2/3/4	39	2441	16.60	18.50	1.547	77.07	1.081	-0.05	0.175	0.293
	Bluetooth	1Mbps	Back	10mm	Ant 4+3(3)	Index 2/3/4	39	2441	17.22	18.50	1.341	77.07	1.081	0.02	0.148	0.215



**15.4 Product Specific SAR**

**<GSM SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	0mm	Index 5	9262	1852.4	19.89	20.80	1.233	-0.04	1.940	2.392
109	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	0mm	Index 5	9400	1880	19.71	20.80	1.285	-0.01	1.910	2.455
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	0mm	Index 5	9538	1907.6	19.84	20.80	1.247	-0.18	1.880	2.345
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	0mm	Index 6	9262	1852.4	19.89	20.10	1.050	-0.04	1.940	2.036
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	0mm	Index 6	9400	1880	19.71	20.10	1.094	-0.01	1.910	2.089
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	0mm	Index 6	9538	1907.6	19.84	20.10	1.062	-0.18	1.880	1.996

**<FDD LTE SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
110	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 5	20850	2510	21.24	22.00	1.191	-0.01	1.450	1.727
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 5	21100	2535	21.01	22.00	1.256	0.02	1.330	1.671
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 5	21350	2560	21.03	22.00	1.250	-0.01	1.250	1.563
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 6	20850	2510	21.24	21.30	1.014	-0.01	1.450	1.470
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 6	21100	2535	21.01	21.30	1.069	0.02	1.330	1.422
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 6	21350	2560	21.03	21.30	1.064	-0.01	1.250	1.330
111	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 5	26340	1880	19.58	20.50	1.236	0.01	1.890	2.336
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 5	26140	1860	19.19	20.50	1.352	0.02	1.570	2.123
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 5	26590	1905	19.18	20.50	1.355	0.02	1.490	2.019
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 6	26340	1880	19.58	19.80	1.052	0.01	1.890	1.988
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 6	26140	1860	19.19	19.80	1.151	0.02	1.570	1.807
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 6	26590	1905	19.18	19.80	1.153	0.02	1.490	1.719
112	LTE Band 30_Ant 0	10M	QPSK	1	0	Bottom Side	0mm	Index 5	27710	2310	21.07	21.80	1.183	-0.01	2.100	2.484
	LTE Band 30_Ant 0	10M	QPSK	1	0	Bottom Side	0mm	Index 6	27710	2310	21.07	21.10	1.007	-0.01	2.100	2.115
	LTE Band 30_Ant 0	10M	QPSK	1	0	Bottom Side	0mm	Index 6	27710	2310	21.07	21.10	1.007	-0.01	2.000	2.014
113	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 5	132572	1770	18.99	19.90	1.233	0.14	2.000	2.466
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 5	132072	1720	18.63	19.90	1.340	0.01	1.700	2.277
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 5	132322	1745	18.75	19.90	1.303	0.01	1.740	2.268
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 6	132572	1770	18.99	19.20	1.050	0.14	2.000	2.099
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 6	132572	1770	18.99	19.20	1.050	0.14	1.930	2.026
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 6	132072	1720	18.63	19.20	1.140	0.01	1.700	1.938
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	0mm	Index 6	132322	1745	18.75	19.20	1.109	0.01	1.740	1.930

**<5G NR SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
114	FR1 n7_Ant 0	50M	QPSK	1	1	Bottom Side	0mm	Index 5	507000	2535	20.95	21.90	1.245	-0.08	1.640	2.041
	FR1 n7_Ant 0	50M	QPSK	1	1	Bottom Side	0mm	Index 6	507000	2535	20.95	21.20	1.059	-0.08	1.640	1.737
115	FR1 n25_Ant 0	40M	QPSK	1	1	Bottom Side	0mm	Index 5	376500	1882.5	19.26	20.60	1.361	-0.01	1.800	2.451
	FR1 n25_Ant 0	40M	QPSK	1	1	Bottom Side	0mm	Index 6	376500	1882.5	19.26	19.90	1.159	-0.01	1.800	2.086
116	FR1 n30_Ant 0	10M	QPSK	1	1	Bottom Side	0mm	Index 5	462000	2310	19.41	20.70	1.346	-0.02	1.720	2.315
	FR1 n30_Ant 0	10M	QPSK	1	1	Bottom Side	0mm	Index 6	462000	2310	19.41	20.00	1.146	-0.02	1.720	1.970
117	FR1 n66_Ant 0	40M	QPSK	1	1	Bottom Side	0mm	Index 5	349000	1745	18.61	19.60	1.256	0.02	1.790	2.248
	FR1 n66_Ant 0	40M	QPSK	1	1	Bottom Side	0mm	Index 6	349000	1745	18.61	18.90	1.069	0.02	1.790	1.914



### <WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+3(4)	Index 5	54	5270	19.90	20.00	1.023	96.15	1.040	-0.05	1.200	1.277
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+3(3)	Index 5	54	5270	19.60	20.00	1.096	96.15	1.040	-0.11	1.210	1.380
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+3(4)	Index 5	54	5270	19.90	20.00	1.023	96.15	1.040	-0.04	1.040	1.107
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+3(3)	Index 5	54	5270	19.60	20.00	1.096	96.15	1.040	-0.04	0.560	0.639
118	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 4+3(3)	Index 5	54	5270	19.60	20.00	1.096	96.15	1.040	0.1	1.960	2.235
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 4+3(3)	Index 5	62	5310	13.70	14.50	1.202	96.15	1.040	0.02	0.580	0.725
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 4+3(3)	Index 5	64	5320	19.00	20.00	1.259	93.46	1.070	0.07	1.130	1.522
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4+3(4)	Index 5	54	5270	19.90	20.00	1.023	96.15	1.040	-0.16	1.850	1.969
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+3(4)	Index 5	54	5270	19.90	20.00	1.023	96.15	1.040	-0.01	1.920	2.043
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+3(3)	Index 5	62	5310	13.70	14.50	1.202	96.15	1.040	0.04	0.548	0.685
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4+3(4)	Index 5	64	5320	19.30	20.00	1.175	93.46	1.070	0.05	1.070	1.345
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+3(4)	Index 6/7/8/9	54	5270	18.80	19.00	1.047	96.15	1.040	0.01	0.520	0.566
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+3(3)	Index 6/7/8/9	54	5270	18.60	19.00	1.096	96.15	1.040	0	0.698	0.796
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+3(4)	Index 6/7/8/9	54	5270	18.80	19.00	1.047	96.15	1.040	-0.04	0.393	0.428
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+3(3)	Index 6/7/8/9	54	5270	18.60	19.00	1.096	96.15	1.040	-0.02	0.338	0.385
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 4+3(3)	Index 6/7/8/9	54	5270	18.60	19.00	1.096	96.15	1.040	0	1.340	1.528
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 4+3(3)	Index 6/7/8/9	62	5310	13.70	14.50	1.202	96.15	1.040	0.02	0.580	0.725
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4+3(4)	Index 6/7/8/9	54	5270	18.80	19.00	1.047	96.15	1.040	-0.02	0.618	0.673
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+3(4)	Index 6/7/8/9	54	5270	18.80	19.00	1.047	96.15	1.040	0.03	0.694	0.756
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(4)	Index 5/6/7	122	5610	19.90	20.00	1.023	85.54	1.169	0.07	0.575	0.688
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(3)	Index 5/6/7	122	5610	19.60	20.00	1.096	85.54	1.169	0.05	1.040	1.333
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(4)	Index 5/6/7	122	5610	19.90	20.00	1.023	85.54	1.169	0.01	0.576	0.689
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(3)	Index 5/6/7	122	5610	19.60	20.00	1.096	85.54	1.169	-0.01	0.410	0.526
119	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	Index 5/6/7	122	5610	19.60	20.00	1.096	85.54	1.169	-0.02	1.400	1.794
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	Index 5/6/7	106	5530	15.00	15.50	1.122	85.54	1.169	0.09	0.876	1.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	Index 5/6/7	138	5690	19.60	20.00	1.096	85.54	1.169	0.05	1.370	1.756
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(4)	Index 5/6/7	122	5610	19.90	20.00	1.023	85.54	1.169	-0.17	0.811	0.970
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(4)	Index 5/6/7	122	5610	19.90	20.00	1.023	85.54	1.169	0	0.728	0.871
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(4)	Index 8/9	122	5610	18.90	19.00	1.023	85.54	1.169	0.06	0.391	0.468
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(3)	Index 8/9	122	5610	18.70	19.00	1.072	85.54	1.169	0.04	0.706	0.884
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(4)	Index 8/9	122	5610	18.90	19.00	1.023	85.54	1.169	0.03	0.397	0.475
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(3)	Index 8/9	122	5610	18.70	19.00	1.072	85.54	1.169	0.01	0.262	0.328
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	Index 8/9	122	5610	18.70	19.00	1.072	85.54	1.169	0.03	0.951	1.191
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	Index 8/9	106	5530	15.00	15.50	1.122	85.54	1.169	0.07	0.595	0.780
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	Index 8/9	138	5690	18.70	19.00	1.072	85.54	1.169	0.04	0.931	1.166
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(4)	Index 8/9	122	5610	18.90	19.00	1.023	85.54	1.169	-0.17	0.551	0.659
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(3)	Index 8/9	122	5610	18.70	19.00	1.072	85.54	1.169	0.01	0.553	0.693
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 4+3(4)	Index 5/6/7	163	5815	18.20	19.50	1.349	87.95	1.137	0.02	0.506	0.776
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 4+3(3)	Index 5/6/7	163	5815	18.80	19.50	1.175	87.95	1.137	0.1	0.861	1.150
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 4+3(4)	Index 5/6/7	163	5815	18.20	19.50	1.349	87.95	1.137	-0.01	0.520	0.798
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 4+3(3)	Index 5/6/7	163	5815	18.80	19.50	1.175	87.95	1.137	0.03	0.205	0.274
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Ant 4+3(3)	Index 5/6/7	163	5815	18.80	19.50	1.175	87.95	1.137	0.02	0.716	0.956
120	WLAN5GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 4+3(4)	Index 5/6/7	163	5815	18.20	19.50	1.349	87.95	1.137	0.05	1.020	1.564
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 4+3(4)	Index 5/6/7	163	5815	18.20	19.50	1.349	87.95	1.137	0	0.505	0.775
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 4+3(4)	Index 8/9	163	5815	18.10	18.50	1.096	87.95	1.137	0	0.357	0.445
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 4+3(3)	Index 8/9	163	5815	18.30	18.50	1.047	87.95	1.137	0.04	0.551	0.656
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 4+3(4)	Index 8/9	163	5815	18.10	18.50	1.096	87.95	1.137	-0.01	0.346	0.431
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 4+3(3)	Index 8/9	163	5815	18.30	18.50	1.047	87.95	1.137	0	0.137	0.163
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Ant 4+3(3)	Index 8/9	163	5815	18.30	18.50	1.047	87.95	1.137	0.08	0.494	0.588
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 4+3(4)	Index 8/9	163	5815	18.10	18.50	1.096	87.95	1.137	0.01	0.695	0.866
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 4+3(4)	Index 8/9	163	5815	18.10	18.50	1.096	87.95	1.137	0.03	0.358	0.446





<6GHzWLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)	Measured APD (W/m <sup>2</sup> )	Reported APD (W/m <sup>2</sup> )
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 4+3(4)	Index 5/6/7/8/9	207	6985	18.70	19.50	1.202	86.11	1.161	-0.08	0.182	0.254	4.440	6.197
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 4+3(3)	Index 5/6/7/8/9	207	6985	19.30	19.50	1.047	86.11	1.161	-0.02	0.285	0.346	6.670	8.109
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 4+3(4)	Index 5/6/7/8/9	207	6985	18.70	19.50	1.202	86.11	1.161	-0.03	0.070	0.098	1.670	2.331
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 4+3(3)	Index 5/6/7/8/9	207	6985	19.30	19.50	1.047	86.11	1.161	0.01	0.114	0.139	2.710	3.295
	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	0mm	Ant 4+3(3)	Index 5/6/7/8/9	207	6985	19.30	19.50	1.047	86.11	1.161	-0.03	0.298	0.362	6.970	8.474
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 4+3(4)	Index 5/6/7/8/9	207	6985	18.70	19.50	1.202	86.11	1.161	-0.03	0.121	0.169	2.870	4.006
121	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	0mm	Ant 4+3(4)	Index 5/6/7/8/9	207	6985	18.70	19.50	1.202	86.11	1.161	-0.05	0.270	0.377	6.310	8.808
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	0mm	Ant 4+3(4)	Index 5/6/7/8/9	15	6025	15.30	15.50	1.047	86.11	1.161	0.01	0.292	0.355	6.740	8.194
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	0mm	Ant 4+3(4)	Index 5/6/7/8/9	47	6185	15.20	15.50	1.072	86.11	1.161	0.02	0.126	0.157	2.940	3.657
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	0mm	Ant 4+3(4)	Index 5/6/7/8/9	111	6505	15.40	16.00	1.148	86.11	1.161	0.04	0.093	0.124	2.180	2.906
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	0mm	Ant 4+3(4)	Index 5/6/7/8/9	143	6665	16.70	17.00	1.072	86.11	1.161	-0.03	0.142	0.177	3.320	4.130

<NFC SAR>

Plot No.	Band	Test Position	Gap (mm)	Freq. (MHz)	Power Drift (dB)	Measured 10g SAR (W/kg)
	NFC	Front	0mm	13.56	0.06	0.001
122	NFC	Back	0mm	13.56	-0.07	0.093
	NFC	Left Side	0mm	13.56	0.04	0.002
	NFC	Right Side	0mm	13.56	-0.08	0.001

15.5 6GHz PD Test Result

Band	Mode	Test Position	Gap (mm)	Antenna	Index	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m <sup>2</sup> )	Total psPD (W/m <sup>2</sup> )
WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(4)	Index 1/2/3/4	15	6025	12.40	0.0625	5.56	0.880189387	2.010	2.330
WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	Index 1/2/3/4	15	6025	12.40	0.25	4.54		0.400	0.462
WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 1/2/3/4	207	6985	14.50	0.0625	6.07	0.326802962	2.200	2.290
WLAN6GHz	802.11ax-HE160 MCS0	Front	8.59mm	Ant 3+4(3)	Index 1/2/3/4	207	6985	14.50	0.25	5.63		0.616	0.777

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m <sup>2</sup> )	Scaled Normal psPD (W/m <sup>2</sup> )	Total psPD (W/m <sup>2</sup> )	Scaled Total psPD (W/m <sup>2</sup> )
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 1/2/3/4	15	6025	12.90	13.50	1.148	86.11	1.161	0.0625	1.5535	0.01	2.010	4.162	2.330	4.825
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 1/2/3/4	47	6185	13.20	13.50	1.072	86.11	1.161	0.0625	1.5535	-0.1	1.280	2.474	1.290	2.493
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 1/2/3/4	111	6505	15.40	16.00	1.148	86.11	1.161	0.0625	1.5535	0.16	1.810	3.748	2.170	4.494
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 1/2/3/4	143	6665	15.50	16.00	1.122	86.11	1.161	0.0625	1.5535	0.06	2.370	4.796	2.720	5.504
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 1/2/3/4	207	6985	14.50	15.00	1.122	86.11	1.161	0.0625	1.5535	-0.17	1.410	2.853	1.500	3.036
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	2mm	Ant 3+4(4)	Index 5/6/7/8/9	207	6985	19.30	19.50	1.047	86.11	1.161	0.0625	1.5535	0.12	1.410	2.663	1.660	3.135
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 5/6/7/8/9	207	6985	18.70	19.50	1.202	86.11	1.161	0.0625	1.5535	0.05	1.940	4.207	3.040	6.592
	WLAN6GHz	802.11ax-HE160 MCS0	Back	2mm	Ant 3+4(4)	Index 5/6/7/8/9	207	6985	19.30	19.50	1.047	86.11	1.161	0.0625	1.5535	0.02	1.230	2.323	1.420	2.682
	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	2mm	Ant 3+4(3)	Index 5/6/7/8/9	207	6985	18.70	19.50	1.202	86.11	1.161	0.0625	1.5535	-0.14	1.730	3.751	2.110	4.575
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	2mm	Ant 3+4(4)	Index 5/6/7/8/9	207	6985	19.30	19.50	1.047	86.11	1.161	0.0625	1.5535	-0.07	0.923	1.743	1.110	2.096
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 5/6/7/8/9	15	6025	15.00	15.50	1.122	86.11	1.161	0.0625	1.5535	0.06	3.930	7.953	3.400	6.881
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 5/6/7/8/9	47	6185	15.10	15.50	1.096	86.11	1.161	0.0625	1.5535	0.09	2.800	5.537	3.530	6.981
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 5/6/7/8/9	111	6505	15.40	16.00	1.148	86.11	1.161	0.0625	1.5535	0.16	1.810	3.748	2.170	4.494
123	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	Index 5/6/7/8/9	143	6665	16.70	17.00	1.072	86.11	1.161	0.0625	1.5535	0.03	2.970	5.740	3.710	7.170



**15.6 Repeated SAR Measurement**

No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	FR1 n71_Ant 1	20M_QPSK_1_1	Right Cheek	0mm	Index 2	136100	680.5	24.50	25.20	1.175	-0.11	0.829	-	0.974
2nd	FR1 n71_Ant 1	20M_QPSK_1_1	Right Cheek	0mm	Index 2	136100	680.5	24.50	25.20	1.175	-0.11	0.811	1.02	0.953
1st	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	Index 4	128	824.2	28.81	28.90	1.021	-0.01	0.831	-	0.848
2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	Index 4	128	824.2	28.81	28.90	1.021	-0.01	0.811	1.02	0.828
1st	LTE Band 30_Ant 0	10M_QPSK_1_0	Bottom Side	10mm	Index 4	27710	2310	18.16	18.20	1.009	-0.09	0.839	-	0.847
2nd	LTE Band 30_Ant 0	10M_QPSK_1_0	Bottom Side	10mm	Index 4	27710	2310	18.16	18.20	1.009	0.05	0.819	1.02	0.827
1st	LTE Band 66_Ant 0	20M_QPSK_1_0	Bottom Side	10mm	Index 4	132572	1770	18.38	18.40	1.005	-0.02	0.816	-	0.820
2nd	LTE Band 66_Ant 0	20M_QPSK_1_0	Bottom Side	10mm	Index 4	132572	1770	18.38	18.40	1.005	0.02	0.804	1.01	0.808
1st	FR1 n41_Ant 0	100M_QPSK_1_1	Front	10mm	Index 5	518598	2592.99	21.61	22.40	1.199	-0.13	0.815	-	0.978
2nd	FR1 n41_Ant 0	100M_QPSK_1_1	Front	10mm	Index 5	518598	2592.99	21.61	22.40	1.199	-0.13	0.806	1.01	0.967

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 5	11	2462	22.40	22.50	1.023	98.90	1.011	-0.02	0.988	-	1.022
2nd	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 5	11	2462	22.40	22.50	1.023	98.90	1.011	-0.01	0.976	1.01	1.010

No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	LTE Band 30_Ant 0	10M_QPSK_1_0	Bottom Side	0mm	Index 5	27710	2310	21.07	21.80	1.183	-0.01	2.100	-	2.484
2nd	LTE Band 30_Ant 0	10M_QPSK_1_0	Bottom Side	0mm	Index 5	27710	2310	21.07	21.80	1.183	-0.01	2.000	1.05	2.366
1st	LTE Band 66_Ant 0	20M_QPSK_1_0	Bottom Side	0mm	Index 5	132572	1770	18.99	19.90	1.233	0.14	2.000	-	2.466
2nd	LTE Band 66_Ant 0	20M_QPSK_1_0	Bottom Side	0mm	Index 5	132572	1770	18.99	19.90	1.233	0.14	1.930	1.04	2.380

**General Note:**

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



**15.7 LTE Band 41 Power Class 2 and Power Class 3 Linearity**

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, Separate SAR testing for Power Class 2 is not required

Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

**<LTE Band 41 Linearity Data for Head>**

	LTE Band 41_Ant 2	LTE Band 41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.9	26.9
Reported 1g SAR (W/kg)	0.287	0.356
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	155.38	212.07
Linearity SAR(W/kg)	0.39	
% deviation from expected linearity		-9.12%

	LTE Band 41_Ant 0	LTE Band 41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.5	26.5
Reported 1g SAR (W/kg)	0.093	0.115
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	193.41
Linearity SAR(W/kg)	0.13	
% deviation from expected linearity		-9.40%

**<LTE Band 41 Linearity Data for Hotspot>**

	LTE Band 41_Ant 2	LTE Band 41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.2	24.8
Reported 1g SAR (W/kg)	0.503	0.472
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	132.25	130.76
Linearity SAR(W/kg)	0.50	
% deviation from expected linearity		-5.09%

	LTE Band 41_Ant 0	LTE Band 41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.3	22.9
Reported 1g SAR (W/kg)	0.784	0.783
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	85.39	84.43
Linearity SAR(W/kg)	0.78	
% deviation from expected linearity		1.01%



**<LTE Band 41 Linearity Data for Body-worn>**

	LTE Band 41_Ant 2	LTE Band 41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.9	25.5
Reported 1g SAR (W/kg)	0.496	0.467
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	155.38	153.63
Linearity SAR(W/kg)	0.49	
% deviation from expected linearity		-4.77%

	LTE Band 41_Ant 0	LTE Band 41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.1	24.7
Reported 1g SAR (W/kg)	0.647	0.645
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	129.24	127.79
Linearity SAR(W/kg)	0.64	
% deviation from expected linearity		0.83%



**15.8 FR1 n41/n77 Power Class 2 and Power Class 3 Linearity**

This device support Power Class 2 and Power Class 3 operations for FR1 n41/n77. The highest available duty cycle for Power Class 2 operation is 50%. 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 FR1 configuration and exposure condition combination, according to the highest time averaged power for 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, Separate SAR testing for Power Class 2 is not required. Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

**<FR1 n41 Linearity Data for Head>**

	FR1 n41_Ant 2 (Power Class 3)	FR1 n41_Ant 2 (Power Class 2)
Maximum Tune up Power (dBm)	23.9	26.9
Reported 1g SAR (W/kg)	0.558	0.548
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	245.47	244.89
Linearity SAR(W/kg)	0.56	
% deviation from expected linearity		-1.56%

	FR1 n41_Ant 0 (Power Class 3)	FR1 n41_Ant 0 (Power Class 2)
Maximum Tune up Power (dBm)	23.5	26.5
Reported 1g SAR (W/kg)	0.296	0.276
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	223.87	223.34
Linearity SAR(W/kg)	0.30	
% deviation from expected linearity		-6.54%

	FR1 n41_Ant 1 (Power Class 3)	FR1 n41_Ant 1 (Power Class 2)
Maximum Tune up Power (dBm)	17.7	20.7
Reported 1g SAR (W/kg)	0.897	0.826
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	58.88	58.74
Linearity SAR(W/kg)	0.89	
% deviation from expected linearity		-7.70%

	FR1 n41_Ant 5 (Power Class 3)	FR1 n41_Ant 5 (Power Class 2)
Maximum Tune up Power (dBm)	22.6	25.6
Reported 1g SAR (W/kg)	0.684	0.642
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	181.97	181.54
Linearity SAR(W/kg)	0.68	
% deviation from expected linearity		-5.92%



**<FR1 n77 Linearity Data for Head>**

	FR1 n77_Ant 6	FR1 n77_Ant 6
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24.6	27.6
Reported 1g SAR (W/kg)	0.296	0.283
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	288.40	287.72
Linearity SAR(W/kg)	0.30	
% deviation from expected linearity		-4.16%

	FR1 n77_Ant 7	FR1 n77_Ant 7
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24	26.4
Reported 1g SAR (W/kg)	0.249	0.237
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	218.26
Linearity SAR(W/kg)	0.22	
% deviation from expected linearity		9.54%

	FR1 n77_Ant 1	FR1 n77_Ant 1
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	17.60	20.60
Reported 1g SAR (W/kg)	0.942	0.849
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	57.54	57.41
Linearity SAR(W/kg)	0.94	
% deviation from expected linearity		-9.66%

	FR1 n77_Ant 5	FR1 n77_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	20.9	23.9
Reported 1g SAR (W/kg)	0.688	0.632
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	123.03	122.74
Linearity SAR(W/kg)	0.69	
% deviation from expected linearity		-7.92%



**<FR1 n41 Linearity Data for Hotspot>**

	FR1 n41_Ant 2 (Power Class 3)	FR1 n41_Ant 2 (Power Class 2)
Maximum Tune up Power (dBm)	21.2	24.2
Reported 1g SAR (W/kg)	0.585	0.551
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	131.83	131.51
Linearity SAR(W/kg)	0.58	
% deviation from expected linearity		-5.59%

	FR1 n41_Ant 0 (Power Class 3)	FR1 n41_Ant 0 (Power Class 2)
Maximum Tune up Power (dBm)	18.8	21.8
Reported 1g SAR (W/kg)	0.842	0.762
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	75.86	75.68
Linearity SAR(W/kg)	0.84	
% deviation from expected linearity		-9.29%

	FR1 n41_Ant 1 (Power Class 3)	FR1 n41_Ant 1 (Power Class 2)
Maximum Tune up Power (dBm)	21.10	24.10
Reported 1g SAR (W/kg)	0.547	0.505
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	128.82	128.52
Linearity SAR(W/kg)	0.55	
% deviation from expected linearity		-7.46%

	FR1 n41_Ant 5 (Power Class 3)	FR1 n41_Ant 5 (Power Class 2)
Maximum Tune up Power (dBm)	20.4	23.4
Reported 1g SAR (W/kg)	0.442	0.423
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	109.65	109.39
Linearity SAR(W/kg)	0.44	
% deviation from expected linearity		-4.07%



**<FR1 n77 Linearity Data for Hotspot>**

	FR1 n77_Ant 6 (Power Class 3)	FR1 n77_Ant 6 (Power Class 2)
Maximum Tune up Power (dBm)	21.7	24.7
Reported 1g SAR (W/kg)	0.508	0.47
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	147.91	147.56
Linearity SAR(W/kg)	0.51	
% deviation from expected linearity		-7.26%

	FR1 n77_Ant 7 (Power Class 3)	FR1 n77_Ant 7 (Power Class 2)
Maximum Tune up Power (dBm)	24	26.4
Reported 1g SAR (W/kg)	0.815	0.718
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	218.26
Linearity SAR(W/kg)	0.71	
% deviation from expected linearity		1.39%

	FR1 n77_Ant 1 (Power Class 3)	FR1 n77_Ant 1 (Power Class 2)
Maximum Tune up Power (dBm)	18	21
Reported 1g SAR (W/kg)	0.276	0.27
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95
Linearity SAR(W/kg)	0.28	
% deviation from expected linearity		-1.94%

	FR1 n77_Ant 5 (Power Class 3)	FR1 n77_Ant 5 (Power Class 2)
Maximum Tune up Power (dBm)	20.8	23.8
Reported 1g SAR (W/kg)	0.246	0.223
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	120.23	119.94
Linearity SAR(W/kg)	0.25	
% deviation from expected linearity		-9.13%





**<FR1 n41 Linearity Data for Body-worn>**

	FR1 n41_Ant 2	FR1 n41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.9	24.9
Reported 1g SAR (W/kg)	0.624	0.568
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	154.88	154.51
Linearity SAR(W/kg)	0.62	
% deviation from expected linearity		-8.76%

	FR1 n41_Ant 0	FR1 n41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.4	25.4
Reported 1g SAR (W/kg)	0.978	0.892
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	173.78	173.37
Linearity SAR(W/kg)	0.98	
% deviation from expected linearity		-8.58%

	FR1 n41_Ant 1	FR1 n41_Ant 1
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23	26
Reported 1g SAR (W/kg)	0.515	0.475
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05
Linearity SAR(W/kg)	0.51	
% deviation from expected linearity		-7.55%

	FR1 n41_Ant 5	FR1 n41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.3	25.3
Reported 1g SAR (W/kg)	0.439	0.418
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	169.82	169.42
Linearity SAR(W/kg)	0.44	
% deviation from expected linearity		-4.56%



**<FR1 n77 Linearity Data for Body-worn>**

	FR1 n77_Ant 6	FR1 n77_Ant 6
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.4	25.4
Reported 1g SAR (W/kg)	0.432	0.424
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	173.78	173.37
Linearity SAR(W/kg)	0.43	
% deviation from expected linearity		-1.62%

	FR1 n77_Ant 7	FR1 n77_Ant 7
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24	26.4
Reported 1g SAR (W/kg)	0.626	0.591
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	218.26
Linearity SAR(W/kg)	0.54	
% deviation from expected linearity		8.65%

	FR1 n77_Ant 1	FR1 n77_Ant 1
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.7	24.7
Reported 1g SAR (W/kg)	0.495	0.461
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	147.91	147.56
Linearity SAR(W/kg)	0.49	
% deviation from expected linearity		-6.65%

	FR1 n77_Ant 5	FR1 n77_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.6	26.6
Reported 1g SAR (W/kg)	0.231	0.219
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	229.09	228.54
Linearity SAR(W/kg)	0.23	
% deviation from expected linearity		-4.97%

**Test Engineer** : Mood Huang, Carter Jhuang, Jay Chien, Putzie Chen, Jocelyn Huang, Ben Huang, Lu Chen, Bevis Chang, Jimmy Lu, Elio Wei, EN Liu, Jacky Chen, Rain Chiu and Hank Chiang

## **16. Uncertainty Assessment**

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture’s specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

<b>Uncertainty Distributions</b>	<b>Normal</b>	<b>Rectangular</b>	<b>Triangular</b>	<b>U-Shape</b>
Multi-plying Factor <sup>(a)</sup>	1/k <sup>(b)</sup>	1/√3	1/√6	1/√2

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b)  $\kappa$  is the coverage factor

### **Standard Uncertainty for Assumed Distribution**

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual “root-sum-squares” (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.



**Applicable for SAR Measurements:**

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
<b>Measurement System</b>							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
<b>Test Sample Related</b>							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
<b>Phantom and Setup</b>							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
<b>Combined Std. Uncertainty</b>						14.5%	14.2%
<b>Coverage Factor for 95 %</b>						K=2	K=2
<b>Expanded STD Uncertainty</b>						29.0%	28.4%



**Applicable for Power Density Measurements:**

Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response (BW ≤ 1 GHz)	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependance	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
<b>Uncertainty terms dep endent on the DUT and environmental factors</b>					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
<b>Combined Std. Uncertainty</b>					<b>1.34</b>
<b>Expanded STD Uncertainty (95%)</b>					<b>2.68</b>



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