



FCC SAR Test Report

Report No. : FA2N2910

Table with columns for LTE Band 25, 20M, QPSK, 1, 0, -, location, 5mm, Ant 1, DSI7, 26340, 1880, 1, 17.34, 18.50, 1.306, -, -, 0.12, 0.628, 0.820. Includes a highlighted row with value 1.187.



Table with columns for device model (FR1 n25), power (20M), modulation (QPSK), and various SAR test parameters. Includes a section for 2300 MHz LTE Band 30 tests.



	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	27710	2310	1	21.84	22.50	1.164	-	-	-0.04	0.680	0.792
	LTE Band 30	10M	QPSK	1	0	-	Top Side	5mm	Ant 9	DSI7	27710	2310	1	21.84	22.50	1.164	-	-	-0.1	0.023	0.027
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 9	DSI3	27710	2310	1	22.29	23.00	1.178	-	-	-0.08	0.256	0.301
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 9	DSI3	27710	2310	1	22.29	23.00	1.178	-	-	0.03	0.553	0.651
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant 9	DSI7	27710	2310	1	21.79	22.50	1.178	-	-	-0.07	0.649	0.764
	LTE Band 30	10M	QPSK	25	0	-	Top Side	5mm	Ant 9	DSI7	27710	2310	1	21.79	22.50	1.178	-	-	0.09	0.021	0.025
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI3	462000	2310	1	19.52	21.00	1.406	-	-	0.09	0.270	0.380
56	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI3	462000	2310	1	19.52	21.00	1.406	-	-	-0.06	0.760	1.069
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI7	462000	2310	1	18.51	20.00	1.409	-	-	-0.02	0.119	0.168
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	DSI7	462000	2310	1	18.51	20.00	1.409	-	-	0.03	0.036	0.051
	FR1 n30	10M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	DSI7	462000	2310	1	18.51	20.00	1.409	-	-	-0.08	0.722	1.018
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	DSI3	462000	2310	1	19.42	21.00	1.439	-	-	-0.1	0.258	0.371
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	DSI3	462000	2310	1	19.42	21.00	1.439	-	-	0.08	0.712	1.024
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 1	DSI7	462000	2310	1	18.46	20.00	1.426	-	-	0.05	0.111	0.158
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Side	5mm	Ant 1	DSI7	462000	2310	1	18.46	20.00	1.426	-	-	0.12	0.031	0.044
	FR1 n30	10M	QPSK	25	14	DFT-15	Top Side	5mm	Ant 1	DSI7	462000	2310	1	18.46	20.00	1.426	-	-	-0.02	0.712	1.015
	FR1 n30	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 1	DSI3	462000	2310	1	19.47	21.00	1.422	-	-	0.06	0.685	0.974
	FR1 n30	10M	QPSK	50	0	DFT-15	Top Side	5mm	Ant 1	DSI7	462000	2310	1	18.42	20.00	1.439	-	-	0.12	0.703	1.011
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 7	DSI3	462000	2310	1	22.83	24.00	1.309	-	-	0.04	0.740	0.969
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 7	DSI3	462000	2310	1	22.83	24.00	1.309	-	-	-0.03	0.629	0.823
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 7	DSI7	462000	2310	1	22.83	24.00	1.309	-	-	-0.11	0.560	0.733
	FR1 n30	10M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 7	DSI7	462000	2310	1	22.83	24.00	1.309	-	-	-0.04	0.536	0.702
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 7	DSI3	462000	2310	1	22.76	24.00	1.330	-	-	0.01	0.700	0.931
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 7	DSI3	462000	2310	1	22.76	24.00	1.330	-	-	-0.06	0.605	0.805
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 7	DSI7	462000	2310	1	22.76	24.00	1.330	-	-	0.11	0.542	0.721
	FR1 n30	10M	QPSK	25	14	DFT-15	Bottom Side	5mm	Ant 7	DSI7	462000	2310	1	22.76	24.00	1.330	-	-	0.11	0.505	0.672
	FR1 n30	10M	QPSK	50	0	DFT-15	Front	5mm	Ant 7	DSI3	462000	2310	1	22.70	24.00	1.349	-	-	-0.03	0.699	0.943
	FR1 n30	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 7	DSI3	462000	2310	1	22.70	24.00	1.349	-	-	0.11	0.609	0.822
<b>2600 MHz</b>																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI3	21100	2535	1	18.95	20.10	1.303	-	-	-0.02	0.186	0.242
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI3	21100	2535	1	18.95	20.10	1.303	-	-	-0.02	0.636	0.829
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	21100	2535	1	16.19	17.10	1.233	-	-	-0.02	0.031	0.038
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	21100	2535	1	16.19	17.10	1.233	-	-	0.11	0.021	0.026
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	21100	2535	1	16.19	17.10	1.233	-	-	0.07	0.667	0.822
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	20850	2510	1	16.11	17.10	1.256	-	-	-0.08	0.706	0.887
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	21350	2560	1	16.13	17.10	1.250	-	-	-0.04	0.721	0.901
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI3	20850	2510	1	18.85	20.10	1.334	-	-	0.02	0.678	0.904
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI3	21350	2560	1	18.89	20.10	1.321	-	-	-0.03	0.765	1.011
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI3	21100	2535	1	18.90	20.10	1.318	-	-	-0.04	0.178	0.235
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI3	21100	2535	1	18.90	20.10	1.318	-	-	-0.02	0.612	0.807
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI7	21100	2535	1	16.15	17.10	1.245	-	-	0.09	0.029	0.036
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI7	21100	2535	1	16.15	17.10	1.245	-	-	-0.12	0.020	0.025
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI7	21100	2535	1	16.15	17.10	1.245	-	-	-0.08	0.651	0.810
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI7	20850	2510	1	16.03	17.10	1.279	-	-	0.02	0.683	0.874
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI7	21350	2560	1	16.07	17.10	1.268	-	-	-0.05	0.706	0.895
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI3	20850	2510	1	18.88	20.10	1.324	-	-	-0.06	0.667	0.883
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI3	21350	2560	1	18.86	20.10	1.330	-	-	0.11	0.756	1.006
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	DSI3	21100	2535	1	18.81	20.10	1.346	-	-	-0.07	0.606	0.816
	LTE Band 7	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI7	21100	2535	1	16.08	17.10	1.265	-	-	-0.11	0.618	0.782
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 7	DSI3	21100	2535	1	21.68	23.00	1.355	-	-	-0.1	0.390	0.529
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 7	DSI3	21100	2535	1	21.68	23.00	1.355	-	-	-0.07	0.701	0.950
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 7	DSI7	21100	2535	1	21.68	23.00	1.355	-	-	-0.1	0.372	0.504
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 7	DSI7	21100	2535	1	21.68	23.00	1.355	-	-	0.05	0.556	0.753
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 7	DSI3	20850	2510	1	21.52	23.00	1.406	-	-	-0.1	0.623	0.876
57	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 7	DSI3	21350	2560	1	21.55	23.00	1.396	-	-	0.1	0.733	1.024
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 7	DSI3	21350+21125	2560+2537.5	1	21.47	23.00	1.422	-	-	-0.14	0.709	1.008



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Table with columns for Band, Power, Modulation, Duty Cycle, Exposure Time, Frequency, Distance, Antenna, etc. Row 58 is highlighted in yellow.



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LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 7	DSI3	40620	2593	1	22.66	23.00	1.081	62.9	1.006	-0.04	0.520	0.566
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 7	DSI3	40620	2593	1	22.66	23.00	1.081	62.9	1.006	0.06	0.867	0.943
LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 7	DSI7	40620	2593	1	22.66	23.00	1.081	62.9	1.006	-0.11	0.362	0.394
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 7	DSI7	40620	2593	1	22.66	23.00	1.081	62.9	1.006	0.09	0.801	0.871
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 7	DSI7	39750	2506	1	22.64	23.00	1.086	62.9	1.006	-0.01	0.746	0.815
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 7	DSI7	40185	2549.5	1	22.65	23.00	1.084	62.9	1.006	-0.08	0.769	0.839
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 7	DSI7	41055	2636.5	1	22.60	23.00	1.096	62.9	1.006	0.04	0.871	0.961
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 7	DSI7	41490	2680	1	22.60	23.00	1.096	62.9	1.006	-0.01	0.883	0.974
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 7	DSI3	39750	2506	1	22.64	23.00	1.086	62.9	1.006	-0.05	0.786	0.859
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 7	DSI3	40185	2549.5	1	22.65	23.00	1.084	62.9	1.006	0.04	0.843	0.919
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 7	DSI3	41055	2636.5	1	22.60	23.00	1.096	62.9	1.006	-0.02	0.896	0.988
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 7	DSI3	41490	2680	1	22.60	23.00	1.096	62.9	1.006	-0.02	0.903	0.996
LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 7	DSI3	40620	2593	1	22.63	23.00	1.089	62.9	1.006	0.02	0.836	0.916
LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 7	DSI7	40620	2593	1	22.63	23.00	1.089	62.9	1.006	0.01	0.791	0.867
LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 6	DSI3	40620	2593	1	20.54	21.60	1.276	62.9	1.006	0.02	0.024	0.031
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6	DSI3	40620	2593	1	20.54	21.60	1.276	62.9	1.006	0.04	0.618	0.794
LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 6	DSI7	40620	2593	1	20.54	21.60	1.276	62.9	1.006	-0.05	0.137	0.176
LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 6	DSI7	40620	2593	1	20.54	21.60	1.276	62.9	1.006	0.04	0.061	0.078
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6	DSI3	39750	2506	1	20.43	21.60	1.309	62.9	1.006	0.09	0.486	0.640
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6	DSI3	40185	2549.5	1	20.37	21.60	1.327	62.9	1.006	0.09	0.515	0.688
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6	DSI3	41055	2636.5	1	20.44	21.60	1.306	62.9	1.006	-0.01	0.719	0.945
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6	DSI3	41490	2680	1	20.43	21.60	1.309	62.9	1.006	-0.02	0.742	0.977
LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 6	DSI3	41490	2680	1	21.82	23.20	1.374	42.9	1.009	-0.06	0.727	1.008
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 6	DSI3	40620	2593	1	20.53	21.60	1.279	62.9	1.006	0.06	0.021	0.027
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6	DSI3	40620	2593	1	20.53	21.60	1.279	62.9	1.006	0.03	0.589	0.758
LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 6	DSI7	40620	2593	1	20.53	21.60	1.279	62.9	1.006	0.06	0.135	0.174
LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 6	DSI7	40620	2593	1	20.53	21.60	1.279	62.9	1.006	-0.06	0.057	0.073
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6	DSI3	39750	2506	1	20.52	21.60	1.282	62.9	1.006	0.01	0.455	0.587
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6	DSI3	40185	2549.5	1	20.52	21.60	1.282	62.9	1.006	-0.05	0.507	0.654
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6	DSI3	41055	2636.5	1	20.45	21.60	1.303	62.9	1.006	0.12	0.698	0.915
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6	DSI3	41490	2680	1	20.44	21.60	1.306	62.9	1.006	0.03	0.736	0.967
LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 6	DSI3	40620	2593	1	20.50	21.60	1.288	62.9	1.006	0.06	0.568	0.736
LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI3	40620	2593	1	21.13	22.00	1.222	62.9	1.006	-0.06	0.173	0.213
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI3	40620	2593	1	21.13	22.00	1.222	62.9	1.006	0.1	0.576	0.708
LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	40620	2593	1	19.78	20.60	1.208	62.9	1.006	-0.11	0.617	0.750
LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 9	DSI7	40620	2593	1	19.78	20.60	1.208	62.9	1.006	-0.11	0.023	0.028
LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	39750	2506	1	19.77	20.60	1.211	62.9	1.006	0.04	0.540	0.658
LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	40185	2549.5	1	19.72	20.60	1.225	62.9	1.006	-0.07	0.554	0.683
LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	41055	2636.5	1	19.71	20.60	1.227	62.9	1.006	-0.05	0.611	0.754
LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	41490	2680	1	19.63	20.60	1.250	62.9	1.006	-0.01	0.621	0.781
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI3	39750	2506	1	21.00	22.00	1.259	62.9	1.006	0.08	0.488	0.618
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI3	40185	2549.5	1	21.04	22.00	1.247	62.9	1.006	-0.08	0.497	0.624
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI3	41055	2636.5	1	20.98	22.00	1.265	62.9	1.006	0.03	0.539	0.686
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI3	41490	2680	1	21.06	22.00	1.242	62.9	1.006	0.03	0.548	0.685
LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI3	40620	2593	1	22.71	23.60	1.227	42.9	1.009	0.1	0.552	0.684
LTE Band 41_HPUE	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	41490	2680	1	21.39	22.20	1.205	42.9	1.009	-0.09	0.574	0.698
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI3	40620	2593	1	21.01	22.00	1.256	62.9	1.006	0.04	0.164	0.207
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI3	40620	2593	1	21.01	22.00	1.256	62.9	1.006	-0.02	0.558	0.705
LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	DSI7	40620	2593	1	19.77	20.60	1.211	62.9	1.006	0.09	0.609	0.742
LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 9	DSI7	40620	2593	1	19.77	20.60	1.211	62.9	1.006	-0.12	0.021	0.026
LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	DSI7	39750	2506	1	19.70	20.60	1.230	62.9	1.006	-0.07	0.537	0.665
LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	DSI7	40185	2549.5	1	19.73	20.60	1.222	62.9	1.006	-0.04	0.543	0.667
LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	DSI7	41055	2636.5	1	19.73	20.60	1.222	62.9	1.006	0.11	0.603	0.741
LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	DSI7	41490	2680	1	19.76	20.60	1.213	62.9	1.006	-0.11	0.612	0.747
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI3	39750	2506	1	20.95	22.00	1.274	62.9	1.006	0.12	0.472	0.605
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI3	40185	2549.5	1	20.98	22.00	1.265	62.9	1.006	-0.02	0.488	0.621



FCC SAR Test Report

Report No. : FA2N2910

Table with columns for band, power, modulation, frequency, time, distance, antenna, etc. Includes rows for LTE Band 41 and FR1 n7 with various test configurations and a highlighted value of 1.181.



**FCC SAR Test Report**

**Report No. : FA2N2910**

	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 9	DSI3	518598	2592.99	1	18.92	20.00	1.282	-	-	-0.02	0.609	0.781
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Right Side	5mm	Ant 9	DSI7	518598	2592.99	1	16.66	17.50	1.213	-	-	0.05	0.616	0.747
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	DSI3	518598	2592.99	1	21.52	22.50	1.253	-	-	-0.04	0.737	0.924
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	DSI3	518598	2592.99	1	21.52	22.50	1.253	-	-	0.02	0.837	1.049
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 7	DSI7	518598	2592.99	1	21.52	22.50	1.253	-	-	0.02	0.584	0.732
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 7	DSI7	518598	2592.99	1	21.52	22.50	1.253	-	-	0.11	0.708	0.887
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7	DSI3	518598	2592.99	1	21.45	22.50	1.274	-	-	-0.03	0.676	0.861
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	DSI3	518598	2592.99	1	21.45	22.50	1.274	-	-	-0.04	0.793	1.010
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 7	DSI7	518598	2592.99	1	21.45	22.50	1.274	-	-	0.07	0.526	0.670
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Bottom Side	5mm	Ant 7	DSI7	518598	2592.99	1	21.45	22.50	1.274	-	-	-0.1	0.645	0.821
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 7	DSI3	518598	2592.99	1	21.35	22.50	1.303	-	-	0.04	0.668	0.871
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 7	DSI3	518598	2592.99	1	21.35	22.50	1.303	-	-	0.06	0.788	1.027
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Left Side	5mm	Ant 7	DSI7	518598	2592.99	1	21.35	22.50	1.303	-	-	-0.03	0.517	0.674
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Bottom Side	5mm	Ant 7	DSI7	518598	2592.99	1	21.35	22.50	1.303	-	-	-0.12	0.641	0.835

**3000~4000 MHz**

	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI3	55830	3609	1	18.72	19.70	1.253	62.9	1.006	0.11	0.412	0.519
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI3	55830	3609	1	18.72	19.70	1.253	62.9	1.006	-0.09	0.797	1.005
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI7	55830	3609	1	14.83	15.70	1.222	62.9	1.006	0.06	0.746	0.917
	LTE Band 48C	20M	QPSK	1	99	-	Left Side	5mm	Ant 2	DSI7	55830+ 55632	3609+ 3589.2	1	14.82	15.70	1.225	62.9	1.006	0.02	0.721	0.888
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI7	55830	3609	1	14.83	15.70	1.222	62.9	1.006	-0.04	0.054	0.066
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI7	55340	3560	1	14.76	15.70	1.242	62.9	1.006	-0.11	0.644	0.804
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI7	56150	3641	1	14.74	15.70	1.247	62.9	1.006	-0.12	0.710	0.891
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI7	56640	3690	1	14.79	15.70	1.233	62.9	1.006	-0.01	0.663	0.822
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI3	55340	3560	1	18.62	19.70	1.282	62.9	1.006	0.08	0.743	0.958
61	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI3	56150	3641	1	18.58	19.70	1.294	62.9	1.006	0.09	0.830	1.081
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 2	DSI3	56150+ 55952	3641+ 3621.2	1	18.56	19.70	1.300	62.9	1.006	0.06	0.634	0.829
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI3	56640	3690	1	18.56	19.70	1.300	62.9	1.006	0.1	0.769	1.006
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI3	55830	3609	1	18.61	19.70	1.285	62.9	1.006	0.05	0.386	0.499
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI3	55830	3609	1	18.61	19.70	1.285	62.9	1.006	-0.01	0.761	0.984
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI7	55830	3609	1	14.79	15.70	1.233	62.9	1.006	-0.03	0.713	0.884
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI7	55830	3609	1	14.79	15.70	1.233	62.9	1.006	-0.06	0.052	0.065
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI7	55340	3560	1	14.67	15.70	1.268	62.9	1.006	-0.01	0.631	0.805
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI7	56150	3641	1	14.65	15.70	1.274	62.9	1.006	0.06	0.706	0.904
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI7	56640	3690	1	14.71	15.70	1.256	62.9	1.006	0.01	0.637	0.805
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI3	55340	3560	1	18.51	19.70	1.315	62.9	1.006	-0.05	0.716	0.947
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI3	56150	3641	1	18.56	19.70	1.300	62.9	1.006	0.02	0.802	1.049
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI3	56640	3690	1	18.51	19.70	1.315	62.9	1.006	0.08	0.735	0.972
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 2	DSI3	55830	3609	1	18.52	19.70	1.312	62.9	1.006	0.07	0.764	1.009
	LTE Band 48	20M	QPSK	100	0	-	Left Side	5mm	Ant 2	DSI7	55830	3609	1	14.73	15.70	1.250	62.9	1.006	0.08	0.726	0.913
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	DSI3	56640	3609	1	22.37	23.50	1.297	62.9	1.006	-0.09	0.367	0.479
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI3	56640	3609	1	22.37	23.50	1.297	62.9	1.006	0.06	0.518	0.676
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	DSI7	56640	3609	1	22.37	23.50	1.297	62.9	1.006	0.03	0.567	0.740
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 5	DSI7	56640	3609	1	22.37	23.50	1.297	62.9	1.006	-0.12	0.412	0.538
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	DSI7	55340	3560	1	22.17	23.50	1.358	62.9	1.006	-0.04	0.513	0.701
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	DSI7	55830	3609	1	22.02	23.50	1.406	62.9	1.006	0.03	0.517	0.731
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	DSI7	56150	3641	1	22.25	23.50	1.334	62.9	1.006	0.09	0.476	0.639
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI3	55340	3560	1	22.17	23.50	1.358	62.9	1.006	0.1	0.459	0.627
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI3	55830	3609	1	22.02	23.50	1.406	62.9	1.006	0.09	0.468	0.662
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI3	56150	3641	1	22.25	23.50	1.334	62.9	1.006	-0.02	0.428	0.574
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	DSI3	56640	3609	1	22.26	23.50	1.330	62.9	1.006	-0.06	0.349	0.467
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI3	56640	3609	1	22.26	23.50	1.330	62.9	1.006	-0.08	0.503	0.673
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 5	DSI7	56640	3609	1	22.26	23.50	1.330	62.9	1.006	0.08	0.548	0.733
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 5	DSI7	56640	3609	1	22.26	23.50	1.330	62.9	1.006	0.07	0.401	0.537
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI3	55340	3560	1	21.88	23.50	1.452	62.9	1.006	-0.04	0.453	0.662
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI3	55830	3609	1	21.84	23.50	1.466	62.9	1.006	-0.07	0.446	0.658
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI3	56150	3641	1	22.00	23.50	1.413	62.9	1.006	-0.01	0.468	0.665



FCC SAR Test Report

Report No. : FA2N2910

Table with columns for LTE Band 48, FR1 n48, Power, Modulation, M, N, Frequency, Direction, Antenna, Antenna ID, Power Spectral Density, Power Flux Density, and SAR values.





**FCC SAR Test Report**

**Report No. : FA2N2910**

	FR1 n48	40M	QPSK	100	0	DFT-30	Left Side	5mm	Ant 2	DSI7	641666	3624.99	1	11.72	13.00	1.343	-	-	0.04	0.700	0.940
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	DSI3	641666	3624.99	1	17.88	19.00	1.294	-	-	-0.01	0.250	0.324
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI3	641666	3624.99	1	17.88	19.00	1.294	-	-	-0.06	0.534	0.691
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	DSI7	641666	3624.99	1	17.88	19.00	1.294	-	-	0.12	0.551	0.713
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 5	DSI7	641666	3624.99	1	17.88	19.00	1.294	-	-	-0.11	0.313	0.405
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	DSI7	638000	3570	1	17.77	19.00	1.327	-	-	-0.05	0.602	0.799
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	DSI7	645332	3679.98	1	17.71	19.00	1.346	-	-	0.08	0.449	0.604
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI3	638000	3570	1	17.77	19.00	1.327	-	-	0.07	0.601	0.798
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI3	645332	3679.98	1	17.71	19.00	1.346	-	-	-0.07	0.454	0.611
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 5	DSI3	641666	3624.99	1	17.75	19.00	1.334	-	-	0.09	0.229	0.305
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	DSI3	641666	3624.99	1	17.75	19.00	1.334	-	-	0.1	0.503	0.671
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 5	DSI7	641666	3624.99	1	17.75	19.00	1.334	-	-	-0.02	0.521	0.695
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 5	DSI7	641666	3624.99	1	17.75	19.00	1.334	-	-	0.09	0.288	0.384
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 5	DSI7	638000	3570	1	17.70	19.00	1.349	-	-	0	0.576	0.777
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 5	DSI7	645332	3679.98	1	17.69	19.00	1.352	-	-	0.02	0.423	0.572
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	DSI3	638000	3570	1	17.70	19.00	1.349	-	-	-0.12	0.576	0.777
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	DSI3	645332	3679.98	1	17.69	19.00	1.352	-	-	0.06	0.438	0.592
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 5	DSI3	641666	3624.99	1	17.72	19.00	1.343	-	-	0.12	0.487	0.654
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Side	5mm	Ant 5	DSI7	641666	3624.99	1	17.72	19.00	1.343	-	-	-0.06	0.503	0.675
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	DSI3	641666	3624.99	1	13.54	14.50	1.247	-	-	0.06	0.096	0.120
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI3	641666	3624.99	1	13.54	14.50	1.247	-	-	-0.02	0.736	0.918
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.54	14.50	1.247	-	-	-0.06	0.012	0.015
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.54	14.50	1.247	-	-	-0.11	0.038	0.047
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.54	14.50	1.247	-	-	-0.04	0.116	0.145
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI3	638000	3570	1	13.29	14.50	1.321	-	-	0.02	0.709	0.937
62	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI3	645332	3679.98	1	13.40	14.50	1.288	-	-	0.06	0.746	0.961
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 8	DSI3	641666	3624.99	1	13.27	14.50	1.327	-	-	-0.12	0.082	0.109
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	DSI3	641666	3624.99	1	13.27	14.50	1.327	-	-	0.06	0.681	0.904
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.27	14.50	1.327	-	-	-0.06	0.010	0.013
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.27	14.50	1.327	-	-	0.09	0.034	0.045
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.27	14.50	1.327	-	-	0.01	0.108	0.143
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	DSI3	638000	3570	1	13.25	14.50	1.334	-	-	0.1	0.673	0.897
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	DSI3	645332	3679.98	1	13.19	14.50	1.352	-	-	0.02	0.706	0.955
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 8	DSI3	641666	3624.99	1	13.25	14.50	1.334	-	-	-0.01	0.676	0.901
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	DSI3	638000	3570	1	11.37	12.00	1.156	-	-	0.05	0.021	0.024
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	DSI3	638000	3570	1	11.37	12.00	1.156	-	-	0.08	0.623	0.720
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 10	DSI7	638000	3570	1	11.37	12.00	1.156	-	-	0.08	0.031	0.036
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 10	DSI7	638000	3570	1	11.37	12.00	1.156	-	-	-0.07	0.008	0.009
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 10	DSI7	638000	3570	1	11.37	12.00	1.156	-	-	0.03	0.016	0.018
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	DSI3	641666	3624.99	1	11.29	12.00	1.178	-	-	0.01	0.602	0.709
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	DSI3	645332	3679.98	1	11.22	12.00	1.197	-	-	-0.12	0.576	0.689
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 10	DSI3	638000	3570	1	11.32	12.00	1.169	-	-	-0.06	0.019	0.022
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 10	DSI3	638000	3570	1	11.32	12.00	1.169	-	-	0.03	0.603	0.705
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 10	DSI7	638000	3570	1	11.32	12.00	1.169	-	-	0.05	0.028	0.033
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 10	DSI7	638000	3570	1	11.32	12.00	1.169	-	-	-0.12	0.007	0.008
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 10	DSI7	638000	3570	1	11.32	12.00	1.169	-	-	-0.1	0.014	0.016
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 10	DSI3	641666	3624.99	1	11.27	12.00	1.183	-	-	-0.05	0.585	0.692
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 10	DSI3	645332	3679.98	1	11.13	12.00	1.222	-	-	-0.03	0.557	0.681
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 10	DSI3	638000	3570	1	11.26	12.00	1.186	-	-	0.06	0.574	0.681
	FR1 n77_Part270_HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	DSI3	656000	3840	1	15.55	16.50	1.245	-	-	0.02	0.316	0.393
	FR1 n77_Part270_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	DSI3	656000	3840	1	15.55	16.50	1.245	-	-	-0.03	0.831	1.034
	FR1 n77_Part270_HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 2	DSI7	656000	3840	1	13.00	14.00	1.259	-	-	-0.1	0.745	0.938
	FR1 n77_Part270_HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 2	DSI7	656000	3840	1	13.00	14.00	1.259	-	-	0.09	0.047	0.059
	FR1 n77_Part270_HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	DSI3	656000	3840	1	15.45	16.50	1.274	-	-	-0.01	0.289	0.368
	FR1 n77_Part270_HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	DSI3	656000	3840	1	15.45	16.50	1.274	-	-	-0.02	0.803	1.023
	FR1 n77_Part270_HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	DSI7	656000	3840	1	12.95	14.00	1.274	-	-	0.09	0.721	0.918



FCC SAR Test Report

Report No. : FA2N2910

Table with columns: FR1 n77\_Part270\_HPUE, 100M, QPSK, 135 69, DFT-30, Top Side, 5mm, Ant 2, DSI7, 656000, 3840, 1, 12.95, 14.00, 1.274, -, -, 0.03, 0.043, 0.055. Row 63 is highlighted in yellow.



**FCC SAR Test Report**

**Report No. : FA2N2910**

FR1 n77_Part27Q_HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	DSI3	633332	3499.98	1	11.95	13.00	1.274	-	-	0.12	0.800	1.019
FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	DSI3	656000	3840	1	9.94	11.00	1.276	-	-	-0.12	0.015	0.019
FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	DSI3	656000	3840	1	9.94	11.00	1.276	-	-	0.08	0.486	0.620
FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 10	DSI7	656000	3840	1	9.94	11.00	1.276	-	-	0.08	0.021	0.027
FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 10	DSI7	656000	3840	1	9.94	11.00	1.276	-	-	0.09	0.007	0.009
FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 10	DSI7	656000	3840	1	9.94	11.00	1.276	-	-	-0.04	0.012	0.015
FR1 n77_Part27O_HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	DSI3	656000	3840	1	9.92	11.00	1.282	-	-	0.1	0.013	0.017
FR1 n77_Part27O_HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	DSI3	656000	3840	1	9.92	11.00	1.282	-	-	-0.06	0.447	0.573
FR1 n77_Part27O_HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 10	DSI7	656000	3840	1	9.92	11.00	1.282	-	-	0.01	0.019	0.024
FR1 n77_Part27O_HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 10	DSI7	656000	3840	1	9.92	11.00	1.282	-	-	0.03	0.005	0.006
FR1 n77_Part27O_HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 10	DSI7	656000	3840	1	9.92	11.00	1.282	-	-	-0.02	0.010	0.013
FR1 n77_Part27O_HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 10	DSI3	656000	3840	1	9.86	11.00	1.300	-	-	-0.02	0.456	0.593
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	DSI3	633332	3499.98	1	9.95	11.00	1.274	-	-	-0.12	0.023	0.029
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	DSI3	633332	3499.98	1	9.95	11.00	1.274	-	-	-0.08	0.619	0.788
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 10	DSI7	633332	3499.98	1	9.95	11.00	1.274	-	-	0.02	0.012	0.015
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 10	DSI7	633332	3499.98	1	9.95	11.00	1.274	-	-	-0.09	0.032	0.041
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 10	DSI7	633332	3499.98	1	9.95	11.00	1.274	-	-	0.05	0.021	0.027
FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	DSI3	633332	3499.98	1	9.94	11.00	1.276	-	-	0.09	0.022	0.028
FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	DSI3	633332	3499.98	1	9.94	11.00	1.276	-	-	-0.07	0.602	0.768
FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 10	DSI7	633332	3499.98	1	9.94	11.00	1.276	-	-	-0.09	0.010	0.013
FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 10	DSI7	633332	3499.98	1	9.94	11.00	1.276	-	-	-0.07	0.030	0.038
FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 10	DSI7	633332	3499.98	1	9.94	11.00	1.276	-	-	0.02	0.019	0.024
FR1 n77_Part27Q_HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 10	DSI3	633332	3499.98	1	9.84	11.00	1.306	-	-	0.06	0.579	0.756



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)
<b>BT&amp;WLAN</b>																	
	Bluetooth	DH5 1Mbps	Front	5mm	Ant 3	Simultaneous	78	2480	1	7.00	8.50	1.413	76.6	1.305	-0.04	0.014	0.026
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Simultaneous	78	2480	1	7.00	8.50	1.413	76.6	1.305	-0.07	0.033	0.061
	Bluetooth	DH5 1Mbps	Right Side	5mm	Ant 3	Simultaneous	78	2480	1	7.00	8.50	1.413	76.6	1.305	0.11	0.021	0.039
	Bluetooth	DH5 1Mbps	Top Side	5mm	Ant 3	Simultaneous	78	2480	1	7.00	8.50	1.413	76.6	1.305	0.01	0.025	0.046
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Simultaneous	0	2402	1	6.90	8.50	1.445	76.6	1.305	0.12	0.041	0.077
64	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Simultaneous	39	2441	1	6.50	8.50	1.585	76.6	1.305	-0.02	0.042	<b>0.087</b>
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Simultaneous	1	2412	1	13.20	14.50	1.349	98.28	1.018	0.07	0.129	0.177
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Simultaneous	1	2412	1	13.20	14.50	1.349	98.28	1.018	0.04	0.263	0.361
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 3	Simultaneous	1	2412	1	13.20	14.50	1.349	98.28	1.018	0.08	0.138	0.190
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 3	Simultaneous	1	2412	1	13.20	14.50	1.349	98.28	1.018	0.08	0.197	0.271
65	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Simultaneous	6	2437	1	13.00	14.50	1.413	98.28	1.018	-0.1	0.304	<b>0.437</b>
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Simultaneous	11	2462	1	13.00	14.50	1.413	98.28	1.018	-0.07	0.275	0.395
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Simultaneous	42	5210	1	9.52	11.00	1.406	93.02	1.075	0.02	0.071	0.107
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Simultaneous	42	5210	1	9.52	11.00	1.406	93.02	1.075	-0.01	0.201	0.304
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5	Simultaneous	42	5210	1	9.52	11.00	1.406	93.02	1.075	0.08	0.103	0.156
66	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5	Simultaneous	42	5210	1	9.52	11.00	1.406	93.02	1.075	-0.04	0.263	<b>0.398</b>
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Simultaneous	155	5775	1	10.54	12.00	1.400	93.02	1.075	0.01	0.129	0.194
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Simultaneous	155	5775	1	10.54	12.00	1.400	93.02	1.075	-0.06	0.240	0.361
67	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5	Simultaneous	155	5775	1	10.54	12.00	1.400	93.02	1.075	-0.07	0.280	<b>0.421</b>
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5	Simultaneous	155	5775	2	10.54	12.00	1.400	93.02	1.075	-0.06	0.272	0.409
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5	Simultaneous	155	5775	1	10.54	12.00	1.400	93.02	1.075	-0.03	0.104	0.156



16.3 Body Worn Accessory SAR

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Power State, Ch., Freq. (MHz), Sample, 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). Rows include LTE Bands 71, 12, 13, 14 and FR1 bands n71, n12.



**FCC SAR Test Report**

**Report No. : FA2N2910**

73	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	141500	707.5	1	22.83	24.00	1.309	1.000	-0.05	0.413	<b>0.541</b>	
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	DSI3	141500	707.5	1	22.76	24.00	1.330	1.000	0.04	0.278	0.370	
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	DSI3	141500	707.5	1	22.76	24.00	1.330	1.000	-0.06	0.403	0.536	
	FR1 n13	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI3	156400	782	1	23.02	24.00	1.253	1.000	0.02	0.082	0.103	
	FR1 n13	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI3	156400	782	1	23.02	24.00	1.253	1.000	0.11	0.123	0.154	
	FR1 n13	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	DSI3	156400	782	1	22.64	24.00	1.368	1.000	0.05	0.069	0.094	
	FR1 n13	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	DSI3	156400	782	1	22.64	24.00	1.368	1.000	0.14	0.090	0.123	
	FR1 n13	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI3	156400	782	1	22.82	24.00	1.312	1.000	0.12	0.300	0.394	
74	FR1 n13	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	156400	782	1	22.82	24.00	1.312	1.000	0.16	0.462	<b>0.606</b>	
	FR1 n13	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 0	DSI3	156400	782	1	22.57	24.00	1.390	1.000	0.01	0.272	0.378	
	FR1 n13	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 0	DSI3	156400	782	1	22.57	24.00	1.390	1.000	0.09	0.426	0.592	
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI3	158600	793	1	23.12	24.00	1.225	1.000	0.07	0.337	0.413	
75	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI3	158600	793	1	23.12	24.00	1.225	1.000	-0.01	0.527	<b>0.645</b>	
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	DSI3	158600	793	1	23.01	24.00	1.256	1.000	-0.14	0.321	0.403	
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	DSI3	158600	793	1	23.01	24.00	1.256	1.000	-0.13	0.496	0.623	
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI3	158600	793	1	22.76	24.00	1.330	1.000	-0.11	0.176	0.234	
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	158600	793	1	22.76	24.00	1.330	1.000	-0.13	0.484	0.644	
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 0	DSI3	158600	793	1	22.63	24.00	1.371	1.000	-0.14	0.171	0.234	
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 0	DSI3	158600	793	1	22.63	24.00	1.371	1.000	0.13	0.452	0.620	
<b>835MHz</b>																					
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 0	DSI3	251	848.8	1	28.99	29.50	1.125	1.000	-0.02	0.106	0.119	
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI3	251	848.8	1	28.99	29.50	1.125	1.000	-0.16	0.212	0.238	
76	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI3	128	824.2	1	28.61	29.50	1.227	1.000	0.12	0.292	<b>0.358</b>	
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI3	189	836.4	1	28.51	29.50	1.256	1.000	-0.16	0.212	0.266	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI3	4182	836.4	1	23.41	24.00	1.146	1.000	0.09	0.419	0.480	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI3	4182	836.4	1	23.41	24.00	1.146	1.000	0.05	0.712	0.816	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI3	4132	826.4	1	23.19	24.00	1.205	1.000	0.11	0.560	0.675	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI3	4233	846.6	1	23.25	24.00	1.189	1.000	0.04	0.730	0.868	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI3	4182	836.4	1	23.08	24.00	1.236	1.000	0.09	0.558	0.690	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI3	4182	836.4	1	23.08	24.00	1.236	1.000	-0.1	0.743	0.918	
77	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI3	4132	826.4	1	23.05	24.00	1.245	1.000	0.12	0.811	<b>1.009</b>	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI3	4233	846.6	1	22.91	24.00	1.285	1.000	0.06	0.777	0.999	
	LTE Band 26	15M	QPSK	1	0		Front	5mm	Ant 1	DSI3	26865	831.5	1	23.16	24.00	1.213	1.000	-0.09	0.615	0.746	
78	LTE Band 26	15M	QPSK	1	0		Back	5mm	Ant 1	DSI3	26865	831.5	1	23.16	24.00	1.213	1.000	-0.1	0.841	<b>1.020</b>	
	LTE Band 26	15M	QPSK	1	0		Back	5mm	Ant 1	DSI3	26765	821.5	1	23.09	24.00	1.233	1.000	-0.04	0.808	0.996	
	LTE Band 26	15M	QPSK	1	0		Back	5mm	Ant 1	DSI3	26965	841.5	1	23.15	24.00	1.216	1.000	-0.15	0.802	0.975	
	LTE Band 26	15M	QPSK	36	0		Front	5mm	Ant 1	DSI3	26865	831.5	1	23.05	24.00	1.245	1.000	-0.07	0.498	0.620	
	LTE Band 26	15M	QPSK	36	0		Back	5mm	Ant 1	DSI3	26865	831.5	1	23.05	24.00	1.245	1.000	-0.11	0.777	0.967	
	LTE Band 26	15M	QPSK	36	0		Back	5mm	Ant 1	DSI3	26765	821.5	1	22.98	24.00	1.265	1.000	-0.13	0.644	0.814	
	LTE Band 26	15M	QPSK	36	0		Back	5mm	Ant 1	DSI3	26965	841.5	1	23.04	24.00	1.247	1.000	0.03	0.656	0.818	
	LTE Band 26	15M	QPSK	75	0		Back	5mm	Ant 1	DSI3	26865	831.5	1	23.03	24.00	1.250	1.000	0.06	0.756	0.945	
	LTE Band 26	15M	QPSK	1	0		Front	5mm	Ant 0	DSI3	26865	831.5	1	23.06	24.00	1.242	1.000	0.03	0.352	0.437	
	LTE Band 26	15M	QPSK	1	0		Back	5mm	Ant 0	DSI3	26865	831.5	1	23.06	24.00	1.242	1.000	-0.14	0.613	0.761	
	LTE Band 26	15M	QPSK	1	0		Back	5mm	Ant 0	DSI3	26765	821.5	1	22.95	24.00	1.274	1.000	-0.1	0.693	0.883	
	LTE Band 5B	10M	QPSK	1	0		Back	5mm	Ant 0	DSI3	20450+ 20549	829+ 838.9	1	22.96	24.00	1.271	1.000	0.03	0.659	0.837	
	LTE Band 26	15M	QPSK	1	0		Back	5mm	Ant 0	DSI3	26965	841.5	1	22.92	24.00	1.282	1.000	0.15	0.629	0.807	
	LTE Band 26	15M	QPSK	36	0		Front	5mm	Ant 0	DSI3	26865	831.5	1	23.01	24.00	1.256	1.000	-0.16	0.342	0.430	
	LTE Band 26	15M	QPSK	36	0		Back	5mm	Ant 0	DSI3	26865	831.5	1	23.01	24.00	1.256	1.000	0.07	0.600	0.754	
	LTE Band 26	15M	QPSK	75	0		Back	5mm	Ant 0	DSI3	26865	831.5	1	22.99	24.00	1.262	1.000	0.06	0.595	0.751	
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI3	166300	831.5	1	23.20	24.00	1.202	1.000	-0.11	0.399	0.480	
79	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI3	166300	831.5	1	23.20	24.00	1.202	1.000	0.11	0.541	<b>0.650</b>	
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	DSI3	166300	831.5	1	23.11	24.00	1.227	1.000	0.05	0.343	0.421	
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI3	166300	831.5	1	23.11	24.00	1.227	1.000	0.04	0.460	0.565	
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI3	166300	831.5	1	23.19	24.00	1.205	1.000	0.14	0.362	0.436	
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	166300	831.5	1	23.19	24.00	1.205	1.000	-0.12	0.510	0.615	



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FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	DSI3	166300	831.5	1	23.10	24.00	1.230	1.000	0.01	0.333	0.410	
FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	DSI3	166300	831.5	1	23.10	24.00	1.230	1.000	-0.15	0.481	0.592	
<b>1750MHz</b>																				
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI3	1413	1732.6	1	17.59	18.50	1.233	1.000	-0.14	0.344	0.424	
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI3	1413	1732.6	1	17.59	18.50	1.233	1.000	-0.15	0.707	0.872	
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI3	1312	1712.4	1	17.12	18.50	1.374	1.000	-0.01	0.623	0.856	
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI3	1513	1752.6	1	17.26	18.50	1.330	1.000	-0.12	0.723	0.962	
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 1	DSI4	1413	1732.6	1	23.14	24.00	1.219	1.000	0.06	0.250	0.305	
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 1	DSI4	1513	1752.6	1	22.74	24.00	1.337	1.000	0.07	0.309	0.413	
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI3	1413	1732.6	1	17.10	17.80	1.175	1.000	0.15	0.454	0.533	
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI3	1413	1732.6	1	17.10	17.80	1.175	1.000	-0.03	0.689	0.810	
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI3	1312	1712.4	1	16.59	17.80	1.321	1.000	-0.08	0.623	0.823	
80	WCDMA IV	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI3	1513	1752.6	1	17.02	17.80	1.197	1.000	-0.12	0.902	<b>1.079</b>	
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	DSI4	1413	1732.6	1	23.82	24.00	1.042	1.000	0.03	0.477	0.497	
WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 0	DSI4	1513	1752.6	1	23.67	24.00	1.079	1.000	0.14	0.487	0.525	
LTE Band 66	20M	QPSK	1	0		Front	5mm	Ant 1	DSI3	132322	1745	1	17.23	18.30	1.279	1.000	-0.04	0.312	0.399	
LTE Band 66	20M	QPSK	1	0		Back	5mm	Ant 1	DSI3	132322	1745	1	17.23	18.30	1.279	1.000	0.15	0.674	0.862	
LTE Band 66	20M	QPSK	1	0		Back	5mm	Ant 1	DSI3	132072	1720	1	17.15	18.30	1.303	1.000	-0.05	0.637	0.830	
LTE Band 66	20M	QPSK	1	0		Back	5mm	Ant 1	DSI3	132572	1770	1	16.92	18.30	1.374	1.000	-0.1	0.768	1.055	
LTE Band 66	20M	QPSK	1	0		Front	14mm	Ant 1	DSI4	132322	1745	1	22.82	24.00	1.312	1.000	-0.08	0.212	0.278	
LTE Band 66	20M	QPSK	1	0		Back	21mm	Ant 1	DSI4	132572	1770	1	22.59	24.00	1.384	1.000	-0.15	0.306	0.423	
LTE Band 66	20M	QPSK	50	0		Front	5mm	Ant 1	DSI3	132322	1745	1	17.19	18.30	1.291	1.000	0.08	0.302	0.390	
LTE Band 66	20M	QPSK	50	0		Back	5mm	Ant 1	DSI3	132322	1745	1	17.19	18.30	1.291	1.000	-0.15	0.662	0.855	
LTE Band 66	20M	QPSK	50	0		Back	5mm	Ant 1	DSI3	132072	1720	1	17.06	18.30	1.330	1.000	-0.09	0.615	0.818	
LTE Band 66	20M	QPSK	50	0		Back	5mm	Ant 1	DSI3	132572	1770	1	17.06	18.30	1.330	1.000	0.05	0.731	0.973	
LTE Band 66	20M	QPSK	100	0		Back	5mm	Ant 1	DSI3	132322	1745	1	17.08	18.30	1.324	1.000	0.09	0.573	0.759	
LTE Band 66	20M	QPSK	1	0		Front	5mm	Ant 0	DSI3	132322	1745	1	17.38	17.70	1.076	1.000	0.16	0.389	0.419	
LTE Band 66	20M	QPSK	1	0		Back	5mm	Ant 0	DSI3	132322	1745	1	17.38	17.70	1.076	1.000	0.03	0.747	0.804	
LTE Band 66	20M	QPSK	1	0		Back	5mm	Ant 0	DSI3	132072	1720	1	17.20	17.70	1.122	1.000	0.14	0.736	0.826	
81	LTE Band 66	20M	QPSK	1	0		Back	5mm	Ant 0	DSI3	132572	1770	1	17.27	17.70	1.104	1.000	-0.07	1.010	<b>1.115</b>
LTE Band 66C	20M	QPSK	1	0		Back	5mm	Ant 0	DSI3	132572+132374	1770+1750.2	1	17.19	17.70	1.125	1.000	-0.08	0.772	0.868	
LTE Band 66	20M	QPSK	1	0		Front	14mm	Ant 0	DSI4	132322	1745	1	23.70	24.00	1.072	1.000	-0.1	0.471	0.505	
LTE Band 66	20M	QPSK	1	0		Back	21mm	Ant 0	DSI4	132572	1770	1	23.66	24.00	1.081	1.000	-0.07	0.662	0.716	
LTE Band 66	20M	QPSK	50	0		Front	5mm	Ant 0	DSI3	132322	1745	1	17.35	17.70	1.084	1.000	0.13	0.367	0.398	
LTE Band 66	20M	QPSK	50	0		Back	5mm	Ant 0	DSI3	132322	1745	1	17.35	17.70	1.084	1.000	0.15	0.739	0.801	
LTE Band 66	20M	QPSK	50	0		Back	5mm	Ant 0	DSI3	132072	1720	1	17.31	17.70	1.094	1.000	0.14	0.728	0.796	
LTE Band 66	20M	QPSK	50	0		Back	5mm	Ant 0	DSI3	132572	1770	1	17.35	17.70	1.084	1.000	0.05	0.939	1.018	
LTE Band 66	20M	QPSK	100	0		Back	5mm	Ant 0	DSI3	132322	1745	1	17.28	17.70	1.102	1.000	0.09	0.706	0.778	
FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI3	340500	1702.5	1	18.98	20.00	1.265	1.000	-0.14	0.469	0.593	
82	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI3	340500	1702.5	1	18.98	20.00	1.265	1.000	0.16	0.849	<b>1.074</b>
FR1 n70	15M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	DSI4	340500	1702.5	1	22.97	24.00	1.268	1.000	0.01	0.243	0.308	
FR1 n70	15M	QPSK	1	1	DFT-15	Back	21mm	Ant 1	DSI4	340500	1702.5	1	22.97	24.00	1.268	1.000	0.05	0.221	0.280	
FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	DSI3	340500	1702.5	1	18.95	20.00	1.274	1.000	-0.07	0.445	0.567	
FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	DSI3	340500	1702.5	1	18.95	20.00	1.274	1.000	-0.01	0.822	1.047	
FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 1	DSI3	340500	1702.5	1	18.68	20.00	1.355	1.000	-0.1	0.750	1.016	
FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI3	340500	1702.5	1	18.40	19.00	1.148	1.000	0.04	0.654	0.751	
FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	340500	1702.5	1	18.40	19.00	1.148	1.000	-0.05	0.877	1.007	
FR1 n70	15M	QPSK	1	1	DFT-15	Front	14mm	Ant 0	DSI4	340500	1702.5	1	23.52	24.00	1.117	1.000	0.07	0.353	0.394	
FR1 n70	15M	QPSK	1	1	DFT-15	Back	21mm	Ant 0	DSI4	340500	1702.5	1	23.52	24.00	1.117	1.000	-0.06	0.285	0.318	
FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	DSI3	340500	1702.5	1	18.30	19.00	1.175	1.000	-0.03	0.631	0.741	
FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	DSI3	340500	1702.5	1	18.30	19.00	1.175	1.000	0.01	0.846	0.994	
FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 0	DSI3	340500	1702.5	1	18.12	19.00	1.225	1.000	0.1	0.820	1.004	
FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI3	349000	1745	1	18.45	19.50	1.274	1.000	0.03	0.381	0.485	
FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI3	349000	1745	1	18.45	19.50	1.274	1.000	-0.14	0.863	1.099	
FR1 n66	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	DSI4	349000	1745	1	22.88	24.00	1.294	1.000	-0.12	0.221	0.286	
FR1 n66	40M	QPSK	1	1	DFT-15	Back	21mm	Ant 1	DSI4	349000	1745	1	22.88	24.00	1.294	1.000	0.06	0.200	0.259	



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	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	DSI3	349000	1745	1	18.31	19.50	1.315	1.000	0.15	0.361	0.475
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	DSI3	349000	1745	1	18.31	19.50	1.315	1.000	-0.05	0.802	1.055
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 1	DSI3	349000	1745	1	18.30	19.50	1.318	1.000	0.08	0.770	1.015
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI3	349000	1745	1	18.99	19.50	1.125	1.000	-0.09	0.531	0.597
83	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	349000	1745	1	18.99	19.50	1.125	1.000	0.14	1.060	1.192
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	349000	1745	2	18.99	19.50	1.125	1.000	0.04	1.030	1.158
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 0	DSI4	349000	1745	1	23.54	24.00	1.112	1.000	-0.13	0.387	0.430
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	21mm	Ant 0	DSI4	349000	1745	1	23.54	24.00	1.112	1.000	-0.08	0.288	0.320
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	DSI3	349000	1745	1	18.87	19.50	1.156	1.000	-0.13	0.515	0.595
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	DSI3	349000	1745	1	18.87	19.50	1.156	1.000	0.1	0.985	1.139
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	DSI3	349000	1745	1	18.85	19.50	1.161	1.000	0.09	0.966	1.122
<b>1900MHz</b>																				
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 0	DSI3	661	1880	1	20.81	22.00	1.315	1.000	-0.06	0.286	0.376
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI3	661	1880	1	20.81	22.50	1.476	1.000	-0.04	0.637	0.940
84	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI3	512	1850.2	1	20.60	22.50	1.549	1.000	-0.08	0.714	1.106
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI3	810	1909.8	1	20.80	22.50	1.479	1.000	0.14	0.606	0.896
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	14mm	Ant 0	DSI4	661	1880	1	25.32	27.00	1.472	1.000	-0.11	0.153	0.225
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	21mm	Ant 0	DSI4	512	1850.2	1	25.11	27.00	1.545	1.000	0.06	0.184	0.284
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI3	9400	1880	1	19.21	20.00	1.199	1.000	-0.13	0.346	0.415
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI3	9400	1880	1	19.21	20.00	1.199	1.000	-0.01	0.679	0.814
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI3	9262	1852.4	1	18.97	20.00	1.268	1.000	0.03	0.732	0.928
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI3	9538	1907.6	1	18.76	20.00	1.330	1.000	-0.03	0.766	1.019
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 1	DSI4	9400	1880	1	23.20	24.00	1.202	1.000	-0.03	0.164	0.197
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 1	DSI4	9538	1907.6	1	22.78	24.00	1.324	1.000	0.09	0.269	0.356
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI3	9400	1880	1	17.89	18.30	1.099	1.000	-0.07	0.533	0.586
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI3	9400	1880	1	17.89	18.30	1.099	1.000	-0.03	0.865	0.951
85	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI3	9262	1852.4	1	17.61	18.30	1.172	1.000	0.15	0.900	1.055
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI3	9538	1907.6	1	17.74	18.30	1.138	1.000	-0.16	0.789	0.898
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	DSI4	9400	1880	1	23.64	24.00	1.086	1.000	0.05	0.465	0.505
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 0	DSI4	9262	1852.4	1	23.27	24.00	1.183	1.000	-0.08	0.379	0.448
	LTE Band 25	20M	QPSK	1	0		Front	5mm	Ant 1	DSI3	26340	1880	1	18.02	19.50	1.406	1.000	-0.02	0.282	0.397
	LTE Band 25	20M	QPSK	1	0		Back	5mm	Ant 1	DSI3	26340	1880	1	18.02	19.50	1.406	1.000	0.04	0.632	0.889
	LTE Band 25	20M	QPSK	1	0		Back	5mm	Ant 1	DSI3	26140	1860	1	17.92	19.50	1.439	1.000	-0.04	0.697	1.003
	LTE Band 25	20M	QPSK	1	0		Back	5mm	Ant 1	DSI3	26590	1905	1	17.97	19.50	1.422	1.000	0.11	0.603	0.858
	LTE Band 25	20M	QPSK	1	0		Front	14mm	Ant 1	DSI4	26340	1880	1	22.69	24.00	1.352	1.000	-0.16	0.177	0.239
	LTE Band 25	20M	QPSK	1	0		Back	21mm	Ant 1	DSI4	26140	1860	1	22.61	24.00	1.377	1.000	0.08	0.155	0.213
	LTE Band 25	20M	QPSK	50	0		Front	5mm	Ant 1	DSI3	26340	1880	1	17.98	19.50	1.419	1.000	0.06	0.265	0.376
	LTE Band 25	20M	QPSK	50	0		Back	5mm	Ant 1	DSI3	26340	1880	1	17.98	19.50	1.419	1.000	0.06	0.623	0.884
	LTE Band 25	20M	QPSK	50	0		Back	5mm	Ant 1	DSI3	26140	1860	1	17.93	19.50	1.435	1.000	0.15	0.670	0.962
	LTE Band 25	20M	QPSK	50	0		Back	5mm	Ant 1	DSI3	26590	1905	1	17.90	19.50	1.445	1.000	0.16	0.589	0.851
	LTE Band 25	20M	QPSK	100	0		Back	5mm	Ant 1	DSI3	26340	1880	1	17.92	19.50	1.439	1.000	-0.13	0.607	0.873
	LTE Band 25	20M	QPSK	1	0		Front	5mm	Ant 0	DSI3	26340	1880	1	17.76	18.30	1.132	1.000	-0.14	0.537	0.608
	LTE Band 25	20M	QPSK	1	0		Back	5mm	Ant 0	DSI3	26340	1880	1	17.76	18.30	1.132	1.000	0.14	0.916	1.037
86	LTE Band 25	20M	QPSK	1	0		Back	5mm	Ant 0	DSI3	26140	1860	1	17.38	18.30	1.236	1.000	0.11	0.960	1.187
	LTE Band 25	20M	QPSK	1	0		Back	5mm	Ant 0	DSI3	26590	1905	1	17.40	18.30	1.230	1.000	0.02	0.856	1.053
	LTE Band 25	20M	QPSK	1	0		Front	14mm	Ant 0	DSI4	26340	1880	1	23.61	24.00	1.094	1.000	0.1	0.493	0.539
	LTE Band 25	20M	QPSK	1	0		Back	21mm	Ant 0	DSI4	26140	1860	1	23.21	24.00	1.199	1.000	-0.02	0.431	0.517
	LTE Band 25	20M	QPSK	50	0		Front	5mm	Ant 0	DSI3	26340	1880	1	17.73	18.30	1.140	1.000	0.07	0.511	0.583
	LTE Band 25	20M	QPSK	50	0		Back	5mm	Ant 0	DSI3	26340	1880	1	17.73	18.30	1.140	1.000	0.02	0.893	1.018
	LTE Band 25	20M	QPSK	50	0		Back	5mm	Ant 0	DSI3	26140	1860	1	17.35	18.30	1.245	1.000	0.02	0.923	1.149
	LTE Band 25	20M	QPSK	50	0		Back	5mm	Ant 0	DSI3	26590	1905	1	17.48	18.30	1.208	1.000	0.09	0.816	0.986
	LTE Band 25	20M	QPSK	100	0		Back	5mm	Ant 0	DSI3	26340	1880	1	17.71	18.30	1.146	1.000	0.01	0.896	1.026
	FR1 n25	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI3	376500	1882.5	1	19.05	20.00	1.245	1.000	0.03	0.386	0.480
	FR1 n25	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI3	376500	1882.5	1	19.05	20.00	1.245	1.000	-0.12	0.780	0.971
	FR1 n25	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI3	372000	1860	1	18.95	20.00	1.274	1.000	0.06	0.820	1.044





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	FR1 n25	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI3	381000	1905	1	18.70	20.00	1.349	1.000	0.03	0.735	0.991
	FR1 n25	20M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	DSI4	376500	1882.5	1	22.88	24.00	1.294	1.000	0.1	0.177	0.229
	FR1 n25	20M	QPSK	1	1	DFT-15	Back	21mm	Ant 1	DSI4	372000	1860	1	22.67	24.00	1.358	1.000	-0.05	0.155	0.211
	FR1 n25	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	DSI3	376500	1882.5	1	18.83	20.00	1.309	1.000	-0.03	0.349	0.457
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI3	376500	1882.5	1	18.83	20.00	1.309	1.000	0.09	0.741	0.970
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI3	372000	1860	1	18.81	20.00	1.315	1.000	0.09	0.786	1.034
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI3	381000	1905	1	18.55	20.00	1.396	1.000	0.03	0.703	0.982
	FR1 n25	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 1	DSI3	376500	1882.5	1	18.74	20.00	1.337	1.000	0.03	0.721	0.964
	FR1 n25	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI3	376500	1882.5	1	19.49	20.00	1.125	1.000	0.01	0.579	0.651
87	FR1 n25	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	376500	1882.5	1	19.49	20.00	1.125	1.000	-0.12	1.020	1.147
	FR1 n25	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	372000	1860	1	19.33	20.00	1.167	1.000	0.11	0.933	1.089
	FR1 n25	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	381000	1905	1	19.38	20.00	1.153	1.000	-0.07	0.921	1.062
	FR1 n25	20M	QPSK	1	1	DFT-15	Front	14mm	Ant 0	DSI4	376500	1882.5	1	23.51	24.00	1.119	1.000	0.02	0.534	0.598
	FR1 n25	20M	QPSK	1	1	DFT-15	Back	21mm	Ant 0	DSI4	376500	1882.5	1	23.51	24.00	1.119	1.000	-0.05	0.431	0.482
	FR1 n25	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	DSI3	376500	1882.5	1	19.41	20.00	1.146	1.000	0.02	0.551	0.631
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	DSI3	376500	1882.5	1	19.41	20.00	1.146	1.000	-0.11	0.984	1.127
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	DSI3	372000	1860	1	19.20	20.00	1.202	1.000	-0.07	0.915	1.100
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	DSI3	381000	1905	1	19.18	20.00	1.208	1.000	-0.01	0.908	1.097
	FR1 n25	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 0	DSI3	376500	1882.5	1	19.32	20.00	1.169	1.000	0.1	0.937	1.096
<b>2300MHz</b>																				
	LTE Band 30	10M	QPSK	1	0		Front	5mm	Ant 1	DSI3	27710	2310	1	19.35	20.40	1.274	1.000	0.12	0.248	0.316
	LTE Band 30	10M	QPSK	1	0		Back	5mm	Ant 1	DSI3	27710	2310	1	19.35	20.40	1.274	1.000	0.01	0.775	0.987
	LTE Band 30	10M	QPSK	1	0		Front	14mm	Ant 1	DSI4	27710	2310	1	22.95	24.00	1.274	1.000	0.05	0.196	0.250
	LTE Band 30	10M	QPSK	1	0		Back	21mm	Ant 1	DSI4	27710	2310	1	22.95	24.00	1.274	1.000	-0.12	0.170	0.216
	LTE Band 30	10M	QPSK	25	0		Front	5mm	Ant 1	DSI3	27710	2310	1	19.28	20.40	1.294	1.000	0.01	0.241	0.312
	LTE Band 30	10M	QPSK	25	0		Back	5mm	Ant 1	DSI3	27710	2310	1	19.28	20.40	1.294	1.000	-0.11	0.743	0.962
	LTE Band 30	10M	QPSK	50	0		Back	5mm	Ant 1	DSI3	27710	2310	1	19.16	20.40	1.330	1.000	0.07	0.736	0.979
	LTE Band 30	10M	QPSK	1	0		Front	5mm	Ant 7	DSI3	27710	2310	1	23.07	24.00	1.239	1.000	0.11	0.908	1.125
88	LTE Band 30	10M	QPSK	1	0		Back	5mm	Ant 7	DSI3	27710	2310	1	23.07	24.00	1.239	1.000	0.04	0.924	1.145
	LTE Band 30	10M	QPSK	25	0		Front	5mm	Ant 7	DSI3	27710	2310	1	22.95	24.00	1.274	1.000	-0.1	0.796	1.014
	LTE Band 30	10M	QPSK	25	0		Back	5mm	Ant 7	DSI3	27710	2310	1	22.95	24.00	1.274	1.000	0.09	0.830	1.057
	LTE Band 30	10M	QPSK	50	0		Front	5mm	Ant 7	DSI3	27710	2310	1	22.90	24.00	1.288	1.000	0.08	0.804	1.036
	LTE Band 30	10M	QPSK	50	0		Back	5mm	Ant 7	DSI3	27710	2310	1	22.90	24.00	1.288	1.000	0.03	0.852	1.098
	LTE Band 30	10M	QPSK	1	0		Front	5mm	Ant 6	DSI3	27710	2310	1	19.05	19.50	1.109	1.000	0.01	0.019	0.021
	LTE Band 30	10M	QPSK	1	0		Back	5mm	Ant 6	DSI3	27710	2310	1	19.05	19.50	1.109	1.000	0.06	0.825	0.915
	LTE Band 30	10M	QPSK	1	0		Front	14mm	Ant 6	DSI4	27710	2310	1	24.10	24.50	1.096	1.000	0.02	0.013	0.014
	LTE Band 30	10M	QPSK	1	0		Back	21mm	Ant 6	DSI4	27710	2310	1	24.10	24.50	1.096	1.000	0.05	0.067	0.073
	LTE Band 30	10M	QPSK	25	0		Front	5mm	Ant 6	DSI3	27710	2310	1	19.03	19.50	1.114	1.000	-0.07	0.017	0.019
	LTE Band 30	10M	QPSK	25	0		Back	5mm	Ant 6	DSI3	27710	2310	1	19.03	19.50	1.114	1.000	-0.09	0.801	0.893
	LTE Band 30	10M	QPSK	50	0		Back	5mm	Ant 6	DSI3	27710	2310	1	18.98	19.50	1.127	1.000	-0.11	0.767	0.865
	LTE Band 30	10M	QPSK	1	0		Front	5mm	Ant 9	DSI3	27710	2310	1	23.29	24.00	1.178	1.000	-0.11	0.274	0.323
	LTE Band 30	10M	QPSK	1	0		Back	5mm	Ant 9	DSI3	27710	2310	1	23.29	24.00	1.178	1.000	-0.11	0.571	0.672
	LTE Band 30	10M	QPSK	25	0		Front	5mm	Ant 9	DSI3	27710	2310	1	22.29	23.00	1.178	1.000	-0.08	0.256	0.301
	LTE Band 30	10M	QPSK	25	0		Back	5mm	Ant 9	DSI3	27710	2310	1	22.29	23.00	1.178	1.000	0.03	0.553	0.651
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI3	462000	2310	1	19.52	21.00	1.406	1.000	0.09	0.270	0.380
89	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI3	462000	2310	1	19.52	21.00	1.406	1.000	-0.06	0.760	1.069
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	DSI4	462000	2310	1	22.60	24.00	1.380	1.000	0.11	0.140	0.193
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	21mm	Ant 1	DSI4	462000	2310	1	22.60	24.00	1.380	1.000	0.08	0.132	0.182
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	DSI3	462000	2310	1	19.42	21.00	1.439	1.000	-0.1	0.258	0.371
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	DSI3	462000	2310	1	19.42	21.00	1.439	1.000	0.08	0.712	1.024
	FR1 n30	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 1	DSI3	462000	2310	1	19.47	21.00	1.422	1.000	0.06	0.685	0.974
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 7	DSI3	462000	2310	1	22.83	24.00	1.309	1.000	0.04	0.740	0.969
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 7	DSI3	462000	2310	1	22.83	24.00	1.309	1.000	-0.03	0.629	0.823
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 7	DSI3	462000	2310	1	22.76	24.00	1.330	1.000	0.01	0.700	0.931
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 7	DSI3	462000	2310	1	22.76	24.00	1.330	1.000	-0.06	0.605	0.805
	FR1 n30	10M	QPSK	50	0	DFT-15	Front	5mm	Ant 7	DSI3	462000	2310	1	22.70	24.00	1.349	1.000	-0.03	0.699	0.943



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FR1 n30	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 7	DSI3	462000	2310	1	22.70	24.00	1.349	1.000	0.11	0.609	0.822	
<b>2600MHz</b>																				
LTE Band 7	20M	QPSK	1	0		Front	5mm	Ant 1	DSI3	21100	2535	1	18.95	20.10	1.303	1.000	-0.02	0.186	0.242	
LTE Band 7	20M	QPSK	1	0		Back	5mm	Ant 1	DSI3	21100	2535	1	18.95	20.10	1.303	1.000	-0.02	0.636	0.829	
LTE Band 7	20M	QPSK	1	0		Back	5mm	Ant 1	DSI3	20850	2510	1	18.85	20.10	1.334	1.000	0.02	0.678	0.904	
LTE Band 7	20M	QPSK	1	0		Back	5mm	Ant 1	DSI3	21350	2560	1	18.89	20.10	1.321	1.000	-0.03	0.765	1.011	
LTE Band 7	20M	QPSK	1	0		Front	14mm	Ant 1	DSI4	21100	2535	1	23.01	24.00	1.256	1.000	0.12	0.072	0.090	
LTE Band 7	20M	QPSK	1	0		Back	21mm	Ant 1	DSI4	21350	2560	1	23.00	24.00	1.259	1.000	-0.12	0.210	0.264	
LTE Band 7	20M	QPSK	50	0		Front	5mm	Ant 1	DSI3	21100	2535	1	18.90	20.10	1.318	1.000	-0.04	0.178	0.235	
LTE Band 7	20M	QPSK	50	0		Back	5mm	Ant 1	DSI3	21100	2535	1	18.90	20.10	1.318	1.000	-0.02	0.612	0.807	
LTE Band 7	20M	QPSK	50	0		Back	5mm	Ant 1	DSI3	20850	2510	1	18.88	20.10	1.324	1.000	-0.06	0.667	0.883	
LTE Band 7	20M	QPSK	50	0		Back	5mm	Ant 1	DSI3	21350	2560	1	18.86	20.10	1.330	1.000	0.11	0.756	1.006	
LTE Band 7	20M	QPSK	100	0		Back	5mm	Ant 1	DSI3	21100	2535	1	18.81	20.10	1.346	1.000	-0.07	0.606	0.816	
LTE Band 7	20M	QPSK	1	0		Front	5mm	Ant 7	DSI3	21100	2535	1	21.68	23.00	1.355	1.000	-0.1	0.390	0.529	
LTE Band 7	20M	QPSK	1	0		Back	5mm	Ant 7	DSI3	21100	2535	1	21.68	23.00	1.355	1.000	-0.07	0.701	0.950	
LTE Band 7	20M	QPSK	1	0		Back	5mm	Ant 7	DSI3	20850	2510	1	21.52	23.00	1.406	1.000	-0.1	0.623	0.876	
90	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	21350	2560	1	21.55	23.00	1.396	1.000	0.1	0.733	<b>1.024</b>	
	LTE Band 7C	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	21350+ 21125	2560+ 2537.5	1	21.47	23.00	1.422	1.000	-0.14	0.709	1.008	
	LTE Band 7	20M	QPSK	1	0	Front	14mm	Ant 7	DSI4	21100	2535	1	22.63	24.00	1.371	1.000	0.07	0.261	0.358	
	LTE Band 7	20M	QPSK	1	0	Back	21mm	Ant 7	DSI4	21350	2560	1	22.60	24.00	1.380	1.000	0.1	0.147	0.203	
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 7	DSI3	21100	2535	1	21.65	23.00	1.365	1.000	-0.1	0.376	0.513	
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 7	DSI3	21100	2535	1	21.65	23.00	1.365	1.000	-0.06	0.679	0.927	
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 7	DSI3	20850	2510	1	21.57	23.00	1.390	1.000	-0.1	0.609	0.846	
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 7	DSI3	21350	2560	1	21.60	23.00	1.380	1.000	-0.1	0.716	0.988	
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 7	DSI3	21100	2535	1	21.63	23.00	1.371	1.000	-0.01	0.667	0.914	
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	DSI3	40620	2593	1	20.60	21.30	1.175	62.9	1.006	0.11	0.168	0.199
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI3	40620	2593	1	20.60	21.30	1.175	62.9	1.006	-0.02	0.586	0.693
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI3	39750	2506	1	20.52	21.30	1.197	62.9	1.006	0.04	0.711	0.856
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI3	40185	2549.5	1	20.55	21.30	1.189	62.9	1.006	-0.1	0.686	0.820
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI3	41055	2636.5	1	20.52	21.30	1.197	62.9	1.006	-0.03	0.736	0.886
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI3	41490	2680	1	20.59	21.30	1.178	62.9	1.006	0.11	0.666	0.789
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	5mm	Ant 1	DSI3	41055	2636.5	1	22.22	22.90	1.169	42.9	1.009	0.11	0.748	0.883
	LTE Band 41	20M	QPSK	1	0	Front	14mm	Ant 1	DSI4	40620	2593	1	24.31	24.50	1.045	62.9	1.006	-0.03	0.055	0.058
	LTE Band 41	20M	QPSK	1	0	Back	21mm	Ant 1	DSI4	41055	2636.5	1	24.28	24.50	1.052	62.9	1.006	-0.05	0.142	0.150
	LTE Band 41_HPUE	20M	QPSK	1	0	Front	14mm	Ant 1	DSI4	40620	2593	1	26.44	27.00	1.138	42.9	1.009	-0.08	0.069	0.079
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	21mm	Ant 1	DSI4	41055	2636.5	1	26.02	27.00	1.253	42.9	1.009	0.11	0.180	0.228
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 1	DSI3	40620	2593	1	20.53	21.30	1.194	62.9	1.006	-0.1	0.161	0.193
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI3	40620	2593	1	20.53	21.30	1.194	62.9	1.006	-0.12	0.551	0.662
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI3	39750	2506	1	20.45	21.30	1.216	62.9	1.006	0.01	0.703	0.860
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI3	40185	2549.5	1	20.47	21.30	1.211	62.9	1.006	-0.1	0.671	0.817
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI3	41055	2636.5	1	20.45	21.30	1.216	62.9	1.006	0.01	0.713	0.872
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI3	41490	2680	1	20.51	21.30	1.199	62.9	1.006	0.04	0.643	0.776
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 1	DSI3	40620	2593	1	20.46	21.30	1.213	62.9	1.006	0.04	0.549	0.670
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 7	DSI3	40620	2593	1	23.69	24.00	1.074	62.9	1.006	-0.07	0.546	0.590
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	40620	2593	1	23.69	24.00	1.074	62.9	1.006	0.02	0.895	0.967
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	39750	2506	1	23.54	24.00	1.112	62.9	1.006	-0.08	0.812	0.908
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	40185	2549.5	1	23.60	24.00	1.096	62.9	1.006	-0.01	0.862	0.951
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	41055	2636.5	1	23.54	24.00	1.112	62.9	1.006	0.09	0.913	1.021
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	41490	2680	1	23.52	24.00	1.117	62.9	1.006	-0.09	0.936	1.052
	LTE Band 41C	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	41490+ 41292	2680+ 2660.2	1	23.48	24.00	1.127	62.9	1.006	0.05	0.718	0.814
91	LTE Band 41_HPUE	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	41490	2680	1	24.65	25.70	1.274	42.9	1.009	0.1	0.870	<b>1.118</b>
	LTE Band 41C_HPUE	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	41490+ 41292	2680+ 2660.2	1	24.47	25.70	1.327	42.9	1.009	-0.03	0.672	0.900
	LTE Band 41	20M	QPSK	1	0	Front	14mm	Ant 7	DSI4	40620	2593	1	23.69	24.00	1.074	62.9	1.006	0.02	0.173	0.187
	LTE Band 41	20M	QPSK	1	0	Back	21mm	Ant 7	DSI4	41490	2680	1	23.52	24.00	1.117	62.9	1.006	-0.08	0.102	0.115
	LTE Band 41_HPUE	20M	QPSK	1	0	Front	14mm	Ant 7	DSI4	40620	2593	1	25.96	27.00	1.271	42.9	1.009	0.06	0.183	0.235



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Table with columns for LTE Band, Modulation, Power, and SAR values. Row 92 is highlighted with a yellow background.



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Table with columns for test parameters (FR1 n7, 40M, QPSK, etc.) and SAR values. Includes a section for 3000-4000MHz with various LTE bands and their corresponding SAR measurements.



**FCC SAR Test Report**

**Report No. : FA2N2910**

LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 5	DSI3	56640	3609	1	22.26	23.50	1.330	62.9	1.006	-0.08	0.503	0.673
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 5	DSI3	55340	3560	1	21.88	23.50	1.452	62.9	1.006	-0.04	0.453	0.662
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 5	DSI3	55830	3609	1	21.84	23.50	1.466	62.9	1.006	-0.07	0.446	0.658
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 5	DSI3	56150	3641	1	22.00	23.50	1.413	62.9	1.006	-0.01	0.468	0.665
LTE Band 48	20M	QPSK	100	0		Back	5mm	Ant 5	DSI3	56640	3609	1	22.24	23.50	1.337	62.9	1.006	-0.1	0.489	0.658
LTE Band 48	20M	QPSK	1	0		Front	5mm	Ant 8	DSI3	55830	3609	1	12.81	13.70	1.227	62.9	1.006	0.06	0.027	0.033
LTE Band 48	20M	QPSK	1	0		Back	5mm	Ant 8	DSI3	55830	3609	1	12.81	13.70	1.227	62.9	1.006	0.03	0.822	1.015
LTE Band 48	20M	QPSK	1	0		Back	5mm	Ant 8	DSI3	55340	3560	1	12.75	13.70	1.245	62.9	1.006	-0.04	0.649	0.813
LTE Band 48	20M	QPSK	1	0		Back	5mm	Ant 8	DSI3	56150	3641	1	12.71	13.70	1.256	62.9	1.006	0.01	0.796	1.006
LTE Band 48	20M	QPSK	1	0		Back	5mm	Ant 8	DSI3	56640	3690	1	12.67	13.70	1.268	62.9	1.006	-0.08	0.776	0.990
LTE Band 48	20M	QPSK	1	0		Front	14mm	Ant 8	DSI4	55830	3609	1	17.98	18.70	1.180	62.9	1.006	0.09	0.030	0.036
LTE Band 48	20M	QPSK	1	0		Back	21mm	Ant 8	DSI4	55830	3609	1	17.98	18.70	1.180	62.9	1.006	-0.02	0.088	0.104
LTE Band 48	20M	QPSK	50	0		Front	5mm	Ant 8	DSI3	55830	3609	1	12.75	13.70	1.245	62.9	1.006	-0.02	0.024	0.030
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 8	DSI3	55830	3609	1	12.75	13.70	1.245	62.9	1.006	-0.01	0.801	1.003
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 8	DSI3	55340	3560	1	12.70	13.70	1.259	62.9	1.006	-0.09	0.619	0.784
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 8	DSI3	56150	3641	1	12.69	13.70	1.262	62.9	1.006	0.1	0.774	0.983
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 8	DSI3	56640	3690	1	12.60	13.70	1.288	62.9	1.006	-0.11	0.758	0.982
LTE Band 48	20M	QPSK	100	0		Back	5mm	Ant 8	DSI3	55830	3609	1	12.70	13.70	1.259	62.9	1.006	0.09	0.730	0.925
LTE Band 48	20M	QPSK	1	0		Front	5mm	Ant 10	DSI3	55830	3609	1	13.49	14.50	1.262	62.9	1.006	-0.04	0.012	0.015
LTE Band 48	20M	QPSK	1	0		Back	5mm	Ant 10	DSI3	55830	3609	1	13.49	14.50	1.262	62.9	1.006	0.11	0.603	0.765
LTE Band 48	20M	QPSK	1	0		Back	5mm	Ant 10	DSI3	55340	3560	1	13.42	14.50	1.282	62.9	1.006	0.01	0.578	0.746
LTE Band 48	20M	QPSK	1	0		Back	5mm	Ant 10	DSI3	56150	3641	1	13.48	14.50	1.265	62.9	1.006	-0.1	0.607	0.772
LTE Band 48	20M	QPSK	1	0		Back	5mm	Ant 10	DSI3	56640	3690	1	13.35	14.50	1.303	62.9	1.006	-0.06	0.558	0.732
LTE Band 48	20M	QPSK	1	0		Front	14mm	Ant 10	DSI4	55830	3609	1	14.76	15.50	1.186	62.9	1.006	0.03	0.002	0.002
LTE Band 48	20M	QPSK	1	0		Back	21mm	Ant 10	DSI4	56150	3641	1	14.72	15.50	1.197	62.9	1.006	-0.07	0.031	0.037
LTE Band 48	20M	QPSK	50	0		Front	5mm	Ant 10	DSI3	55830	3609	1	13.46	14.50	1.271	62.9	1.006	0.07	0.010	0.013
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 10	DSI3	55830	3609	1	13.46	14.50	1.271	62.9	1.006	0.07	0.578	0.739
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 10	DSI3	55340	3560	1	13.38	14.50	1.294	62.9	1.006	0.04	0.567	0.738
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 10	DSI3	56150	3641	1	13.44	14.50	1.276	62.9	1.006	-0.04	0.591	0.759
LTE Band 48	20M	QPSK	50	0		Back	5mm	Ant 10	DSI3	56640	3690	1	13.35	14.50	1.303	62.9	1.006	-0.05	0.546	0.716
LTE Band 48	20M	QPSK	100	0		Back	5mm	Ant 10	DSI3	55830	3609	1	13.40	14.50	1.288	62.9	1.006	-0.03	0.568	0.736
FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	DSI3	641666	3624.99	1	15.85	17.00	1.303		1.000	0.08	0.415	0.541
FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	DSI3	641666	3624.99	1	15.85	17.00	1.303		1.000	0.12	0.733	0.955
FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	DSI3	638000	3570	1	15.77	17.00	1.327		1.000	0.1	0.702	0.932
FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	DSI3	645332	3679.98	1	15.63	17.00	1.371		1.000	-0.01	0.681	0.934
FR1 n48	40M	QPSK	1	1	DFT-30	Front	14mm	Ant 2	DSI4	641666	3624.99	1	23.00	24.00	1.259		1.000	0.03	0.384	0.483
FR1 n48	40M	QPSK	1	1	DFT-30	Back	21mm	Ant 2	DSI4	641666	3624.99	1	23.00	24.00	1.259		1.000	-0.05	0.455	0.573
FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 2	DSI3	641666	3624.99	1	15.79	17.00	1.321		1.000	0.02	0.370	0.489
FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 2	DSI3	641666	3624.99	1	15.79	17.00	1.321		1.000	-0.09	0.708	0.935
FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 2	DSI3	638000	3570	1	15.69	17.00	1.352		1.000	-0.08	0.678	0.917
FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 2	DSI3	645332	3679.98	1	15.70	17.00	1.349		1.000	-0.04	0.649	0.875
FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 2	DSI3	641666	3624.99	1	15.76	17.00	1.330		1.000	-0.01	0.682	0.907
FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	DSI3	641666	3624.99	1	17.88	19.00	1.294		1.000	-0.01	0.250	0.324
FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI3	641666	3624.99	1	17.88	19.00	1.294		1.000	-0.06	0.534	0.691
FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI3	638000	3570	1	17.77	19.00	1.327		1.000	0.07	0.601	0.798
FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI3	645332	3679.98	1	17.71	19.00	1.346		1.000	-0.07	0.454	0.611
FR1 n48	40M	QPSK	1	1	DFT-30	Front	14mm	Ant 5	DSI4	641666	3624.99	1	21.92	23.00	1.282		1.000	0.07	0.221	0.283
FR1 n48	40M	QPSK	1	1	DFT-30	Back	21mm	Ant 5	DSI4	638000	3570	1	21.83	23.00	1.309		1.000	0.1	0.075	0.098
FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 5	DSI3	641666	3624.99	1	17.75	19.00	1.334		1.000	0.09	0.229	0.305
FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	DSI3	641666	3624.99	1	17.75	19.00	1.334		1.000	0.1	0.503	0.671
FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	DSI3	638000	3570	1	17.70	19.00	1.349		1.000	-0.12	0.576	0.777
FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	DSI3	645332	3679.98	1	17.69	19.00	1.352		1.000	0.06	0.438	0.592
FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 5	DSI3	641666	3624.99	1	17.72	19.00	1.343		1.000	0.12	0.487	0.654
FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	DSI3	641666	3624.99	1	13.54	14.50	1.247		1.000	0.06	0.096	0.120
FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI3	641666	3624.99	1	13.54	14.50	1.247		1.000	-0.02	0.736	0.918
FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI3	638000	3570	1	13.29	14.50	1.321		1.000	0.02	0.709	0.937



Table with columns for test parameters (FR1 n48, FR1 n77\_Part270\_HPUE, FR1 n77\_Part27Q\_HPUE) and SAR values. Includes a highlighted cell with value 1.095.



**FCC SAR Test Report**

**Report No. : FA2N2910**

FR1 n77_Part27O_HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	DSI3	656000	3840	1	12.05	13.00	1.245		1.000	-0.01	0.028	0.035
FR1 n77_Part27O_HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI3	656000	3840	1	12.05	13.00	1.245		1.000	-0.05	0.846	1.053
FR1 n77_Part27O_HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	DSI3	656000	3840	1	11.87	13.00	1.297		1.000	0.06	0.837	1.086
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	DSI3	633332	3499.98	1	12.02	13.00	1.253		1.000	0.02	0.028	0.035
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI3	633332	3499.98	1	12.02	13.00	1.253		1.000	-0.03	0.850	1.065
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 8	DSI4	633332	3499.98	1	16.04	17.00	1.247		1.000	0.05	0.035	0.044
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	21mm	Ant 8	DSI4	633332	3499.98	1	16.04	17.00	1.247		1.000	-0.01	0.095	0.119
FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	DSI3	633332	3499.98	1	11.97	13.00	1.268		1.000	0.04	0.026	0.033
FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI3	633332	3499.98	1	11.97	13.00	1.268		1.000	0.12	0.833	1.056
FR1 n77_Part27Q_HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	DSI3	633332	3499.98	1	11.95	13.00	1.274		1.000	0.12	0.800	1.019
FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	DSI3	656000	3840	1	9.94	11.00	1.276		1.000	-0.12	0.015	0.019
FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	DSI3	656000	3840	1	9.94	11.00	1.276		1.000	0.08	0.486	0.620
FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 10	DSI4	656000	3840	1	12.44	13.50	1.276		1.000	0.08	0.001	0.001
FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Back	21mm	Ant 10	DSI4	656000	3840	1	12.44	13.50	1.276		1.000	-0.12	0.022	0.028
FR1 n77_Part27O_HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	DSI3	656000	3840	1	9.92	11.00	1.282		1.000	0.1	0.013	0.017
FR1 n77_Part27O_HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	DSI3	656000	3840	1	9.92	11.00	1.282		1.000	-0.06	0.447	0.573
FR1 n77_Part27O_HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 10	DSI3	656000	3840	1	9.86	11.00	1.300		1.000	-0.02	0.456	0.593
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	DSI3	633332	3499.98	1	9.95	11.00	1.274		1.000	-0.12	0.023	0.029
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	DSI3	633332	3499.98	1	9.95	11.00	1.274		1.000	-0.08	0.619	0.788
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 10	DSI4	633332	3499.98	1	12.45	13.50	1.274		1.000	-0.11	0.002	0.003
FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	21mm	Ant 10	DSI4	633332	3499.98	1	12.45	13.50	1.274		1.000	-0.12	0.028	0.036
FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	DSI3	633332	3499.98	1	9.94	11.00	1.276		1.000	0.09	0.022	0.028
FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	DSI3	633332	3499.98	1	9.94	11.00	1.276		1.000	-0.07	0.602	0.768
FR1 n77_Part27Q_HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 10	DSI3	633332	3499.98	1	9.84	11.00	1.306		1.000	0.06	0.579	0.756



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)
<b>BT &amp; WLAN</b>																	
	Bluetooth	DH5 1Mbps	Front	5mm	Ant 3	Standalone	78	2480	1	11.50	13.00	1.413	76.6	1.305	0.07	0.041	0.075
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Standalone	78	2480	1	11.50	13.00	1.413	76.6	1.305	0.12	0.093	0.171
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Standalone	0	2402	1	11.40	13.00	1.445	76.6	1.305	-0.08	0.119	0.224
97	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Standalone	39	2441	1	11.00	13.00	1.585	76.6	1.305	-0.05	0.121	<b>0.250</b>
	Bluetooth	DH5 1Mbps	Front	5mm	Ant 3	Simultaneous	39	2441	1	6.50	8.50	1.585	76.6	1.305	0.16	0.015	0.031
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Simultaneous	39	2441	1	6.50	8.50	1.585	76.6	1.305	-0.02	0.042	0.087
	Bluetooth	DH5 1Mbps	Front	14mm	Ant 3	Full Power	78	2480	1	11.50	13.00	1.413	76.6	1.305	0.07	0.009	0.017
	Bluetooth	DH5 1Mbps	Back	21mm	Ant 3	Full Power	39	2441	1	11.00	13.00	1.585	76.6	1.305	0.12	0.004	0.008
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Standalone	1	2412	1	17.20	18.50	1.349	98.28	1.018	-0.11	0.376	0.516
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Standalone	1	2412	1	17.20	18.50	1.349	98.28	1.018	0.08	0.786	1.079
98	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Standalone	6	2437	1	17.10	18.50	1.380	98.28	1.018	-0.07	0.840	<b>1.180</b>
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Standalone	6	2437	2	17.10	18.50	1.380	98.28	1.018	-0.01	0.763	1.072
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Standalone	11	2462	1	17.00	18.50	1.413	98.28	1.018	0.02	0.751	1.080
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Simultaneous	6	2437	1	13.00	14.50	1.413	98.28	1.018	-0.03	0.133	0.191
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Simultaneous	6	2437	1	13.00	14.50	1.413	98.28	1.018	-0.1	0.304	0.437
	WLAN2.4GHz	802.11b 1Mbps	Front	14mm	Ant 3	Full Power	1	2412	1	21.30	22.50	1.318	98.28	1.018	0.09	0.169	0.227
	WLAN2.4GHz	802.11b 1Mbps	Back	21mm	Ant 3	Full Power	6	2437	1	21.10	22.50	1.380	98.28	1.018	0.12	0.131	0.184
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	5mm	Ant 5	Standalone	54	5270	1	15.06	16.50	1.393	96.46	1.037	0.04	0.329	0.475
99	WLAN5.3GHz	802.11n-HT40 MCS0	Back	5mm	Ant 5	Standalone	54	5270	1	15.06	16.50	1.393	96.46	1.037	0.06	0.753	<b>1.088</b>
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	5mm	Ant 5	Standalone	62	5310	1	14.97	16.50	1.422	96.46	1.037	0.01	0.706	1.041
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Simultaneous	58	5290	1	9.61	11.00	1.377	93.02	1.075	0.03	0.095	0.141
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Simultaneous	58	5290	1	9.61	11.00	1.377	93.02	1.075	-0.03	0.253	0.375
	WLAN5.3GHz	802.11a 6Mbps	Front	14mm	Ant 5	Full Power	64	5320	1	20.44	22.00	1.431	98.35	1.017	0.06	0.245	0.357
	WLAN5.3GHz	802.11a 6Mbps	Back	21mm	Ant 5	Full Power	64	5320	1	20.44	22.00	1.431	98.35	1.017	-0.11	0.220	0.320
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Standalone	106	5530	1	14.98	16.50	1.419	93.02	1.075	-0.09	0.282	0.430
100	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Standalone	106	5530	1	14.98	16.50	1.419	93.02	1.075	0.1	0.761	<b>1.161</b>
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Simultaneous	106	5530	1	11.65	13.00	1.365	93.02	1.075	0.03	0.121	0.177
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Simultaneous	106	5530	1	11.65	13.00	1.365	93.02	1.075	0.08	0.246	0.361
	WLAN5.5GHz	802.11a 6Mbps	Front	14mm	Ant 5	Full Power	116	5580	1	20.47	22.00	1.422	98.35	1.017	-0.04	0.223	0.322
	WLAN5.5GHz	802.11a 6Mbps	Back	21mm	Ant 5	Full Power	116	5580	1	20.47	22.00	1.422	98.35	1.017	-0.05	0.214	0.309
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Standalone	155	5775	1	15.65	17.00	1.365	93.02	1.075	0.07	0.494	0.725
101	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Standalone	155	5775	1	15.65	17.00	1.365	93.02	1.075	-0.09	0.802	<b>1.176</b>
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Standalone	155	5775	2	15.65	17.00	1.365	93.02	1.075	0.05	0.708	1.039
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Simultaneous	155	5775	1	10.54	12.00	1.400	93.02	1.075	0.01	0.129	0.194
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Simultaneous	155	5775	1	10.54	12.00	1.400	93.02	1.075	-0.06	0.240	0.361
	WLAN5.8GHz	802.11a 6Mbps	Front	14mm	Ant 5	Full Power	149	5745	1	20.60	22.00	1.380	98.35	1.017	-0.01	0.256	0.359
	WLAN5.8GHz	802.11a 6Mbps	Back	21mm	Ant 5	Full Power	149	5745	1	20.60	22.00	1.380	98.35	1.017	0.09	0.200	0.281





16.4 Product specific 10g SAR

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Power State, Ch., Freq. (MHz), Sample, 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). Includes rows for WCDMA IV, LTE Band 66, and FR1 n70.



FCC SAR Test Report

Report No. : FA2N2910

Table with columns: Device ID, Modulation, Power, Channels, Frequency, Modulation, Position, Distance, Antenna, Power Spectral Density, Frequency, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density. Includes sections for 1900 MHz and LTE Band 25.



FCC SAR Test Report

Report No. : FA2N2910

Table with columns for LTE Band, Modulation, Power, and SAR values. Includes rows for LTE Bands 25 and FR1 n25/n30, and a 2300 MHz section. Values range from 0.07 to 2.635.



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Table with columns for FR1 n30, LTE Band 7, LTE Band 41, etc. containing technical specifications like frequency, modulation, power, and SAR values.



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	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 6	DSi6	39750	2506	1	21.92	23.10	1.312	62.9	1.006	0.04	1.080	1.426
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 6	DSi6	40185	2549.5	1	21.87	23.10	1.327	62.9	1.006	0.03	1.010	1.349
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 6	DSi6	41055	2636.5	1	21.95	23.10	1.303	62.9	1.006	0.12	0.986	1.293
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 6	DSi6	41490	2680	1	21.94	23.10	1.306	62.9	1.006	0.07	0.937	1.231
	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 6	DSi6	40620	2593	1	23.45	24.70	1.334	42.9	1.009	-0.06	1.090	1.467
	LTE Band 41	20M	QPSK	1	0	-	Back	9mm	Ant 6	DSi4	40620	2593	1	22.90	24.00	1.288	62.9	1.006	0.11	0.116	0.150
	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	9mm	Ant 6	DSi4	40620	2593	1	25.70	27.00	1.349	42.9	1.009	0.09	0.149	0.203
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 6	DSi6	40620	2593	1	21.95	23.00	1.274	62.9	1.006	-0.01	1.080	1.384
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 6	DSi6	40620	2593	1	21.91	23.00	1.285	62.9	1.006	0.09	1.020	1.319
	LTE Band 41	20M	QPSK	1	0	-	Right Side	0mm	Ant 9	DSi4	40620	2593	1	21.99	23.00	1.262	62.9	1.006	0.07	1.350	1.714
	LTE Band 41	20M	QPSK	1	0	-	Right Side	0mm	Ant 9	DSi4	39750	2506	1	21.97	23.00	1.268	62.9	1.006	0.01	1.310	1.671
	LTE Band 41	20M	QPSK	1	0	-	Right Side	0mm	Ant 9	DSi4	40185	2549.5	1	21.94	23.00	1.276	62.9	1.006	-0.05	1.290	1.656
	LTE Band 41	20M	QPSK	1	0	-	Right Side	0mm	Ant 9	DSi4	41055	2636.5	1	21.96	23.00	1.271	62.9	1.006	0.06	1.310	1.674
	LTE Band 41	20M	QPSK	1	0	-	Right Side	0mm	Ant 9	DSi4	41490	2680	1	21.88	23.00	1.294	62.9	1.006	-0.09	1.290	1.680
113	LTE Band 41_HPUE	20M	QPSK	1	0	-	Right Side	0mm	Ant 9	DSi4	40620	2593	1	24.82	26.00	1.312	42.9	1.009	0.1	1.600	<b>2.118</b>
	LTE Band 41	20M	QPSK	50	0	-	Right Side	0mm	Ant 9	DSi4	40620	2593	1	21.01	22.00	1.256	62.9	1.006	-0.03	1.250	1.579
	LTE Band 41	20M	QPSK	50	0	-	Right Side	0mm	Ant 9	DSi4	39750	2506	1	20.95	22.00	1.274	62.9	1.006	-0.08	1.210	1.550
	LTE Band 41	20M	QPSK	50	0	-	Right Side	0mm	Ant 9	DSi4	40185	2549.5	1	20.98	22.00	1.265	62.9	1.006	0.03	1.220	1.552
	LTE Band 41	20M	QPSK	50	0	-	Right Side	0mm	Ant 9	DSi4	41055	2636.5	1	21.00	22.00	1.259	62.9	1.006	0.01	1.190	1.507
	LTE Band 41	20M	QPSK	50	0	-	Right Side	0mm	Ant 9	DSi4	41490	2680	1	20.97	22.00	1.268	62.9	1.006	0.06	1.160	1.479
	LTE Band 41	20M	QPSK	100	0	-	Right Side	0mm	Ant 9	DSi4	40620	2593	1	21.00	22.00	1.259	62.9	1.006	0.08	1.210	1.532
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSi6	507000	2535	1	22.23	23.00	1.194	-	-	-0.04	1.170	1.397
	FR1 n7	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSi6	507000	2535	1	22.23	23.00	1.194	-	-	0.08	1.590	1.898
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	16mm	Ant 1	DSi4	507000	2535	1	23.22	24.00	1.197	-	-	0.11	0.109	0.130
	FR1 n7	40M	QPSK	1	1	DFT-15	Top Side	17mm	Ant 1	DSi4	507000	2535	1	23.22	24.00	1.197	-	-	-0.01	0.146	0.175
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	DSi6	507000	2535	1	22.20	23.00	1.202	-	-	-0.03	1.100	1.322
	FR1 n7	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	DSi6	507000	2535	1	22.20	23.00	1.202	-	-	-0.09	1.520	1.827
114	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 7	DSi6	507000	2535	1	23.23	24.00	1.194	-	-	-0.02	1.610	<b>1.922</b>
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 7	DSi6	507000	2535	1	22.96	24.00	1.271	-	-	-0.11	1.500	1.906
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	DSi6	518598	2592.99	1	22.96	24.00	1.271	-	-	0.09	1.330	1.690
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 1	DSi6	518598	2592.99	1	22.96	24.00	1.271	-	-	0.08	1.570	1.995
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Back	16mm	Ant 1	DSi4	518598	2592.99	1	24.51	25.50	1.256	-	-	-0.02	0.143	0.180
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Top Side	17mm	Ant 1	DSi4	518598	2592.99	1	24.51	25.50	1.256	-	-	-0.07	0.179	0.225
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	DSi6	518598	2592.99	1	22.89	24.00	1.291	-	-	0.11	1.240	1.601
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 1	DSi6	518598	2592.99	1	22.89	24.00	1.291	-	-	-0.12	1.460	1.885
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 1	DSi6	518598	2592.99	1	22.92	24.00	1.282	-	-	0.06	1.260	1.616
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 1	DSi6	518598	2592.99	1	22.92	24.00	1.282	-	-	0.08	1.500	1.923
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 6	DSi6	518598	2592.99	1	18.55	19.50	1.245	-	-	0.06	1.350	1.680
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 6	DSi6	518598	2592.99	1	18.55	19.50	1.245	-	-	0.11	0.275	0.342
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Back	9mm	Ant 6	DSi4	518598	2592.99	1	24.55	25.50	1.245	-	-	0.02	0.561	0.698
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Left Side	12mm	Ant 6	DSi4	518598	2592.99	1	24.55	25.50	1.245	-	-	-0.06	0.182	0.227
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 6	DSi6	518598	2592.99	1	18.50	19.50	1.259	-	-	0.08	1.260	1.586
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 6	DSi6	518598	2592.99	1	18.50	19.50	1.259	-	-	0.06	0.239	0.301
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 6	DSi6	518598	2592.99	1	18.47	19.50	1.268	-	-	0.07	1.230	1.559
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	DSi4	518598	2592.99	1	19.08	20.00	1.236	-	-	0.03	0.493	0.609
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 9	DSi4	518598	2592.99	1	19.08	20.00	1.236	-	-	0.08	1.620	2.002
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 9	DSi4	518598	2592.99	1	19.05	20.00	1.245	-	-	-0.05	0.482	0.600
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 9	DSi4	518598	2592.99	1	19.05	20.00	1.245	-	-	0.11	1.580	1.966
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 9	DSi4	518598	2592.99	1	18.92	20.00	1.282	-	-	0.08	1.490	1.911
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 7	DSi6	518598	2592.99	1	21.01	22.00	1.256	-	-	0.07	1.070	1.344
115	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	DSi6	518598	2592.99	1	21.01	22.00	1.256	-	-	0.11	1.610	<b>2.022</b>
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 7	DSi6	518598	2592.99	1	21.01	22.00	1.256	-	-	0.03	1.030	1.294
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 7	DSi6	518598	2592.99	1	21.01	22.00	1.256	-	-	-0.08	1.250	1.570
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 7	DSi4	518598	2592.99	1	26.12	27.00	1.225	-	-	-0.03	0.302	0.370
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Back	19mm	Ant 7	DSi4	518598	2592.99	1	26.12	27.00	1.225	-	-	-0.1	0.213	0.261
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Left Side	14mm	Ant 7	DSi4	518598	2592.99	1	26.12	27.00	1.225	-	-	0.06	0.277	0.339



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	FR1 n41_HPUE	100M	QPSK	1	1	DFT-30	Bottom Side	16mm	Ant 7	DSI4	518598	2592.99	1	26.12	27.00	1.225	-	-	0.02	0.263	0.322
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 7	DSI6	518598	2592.99	1	20.96	22.00	1.271	-	-	0.04	0.976	1.240
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 7	DSI6	518598	2592.99	1	20.96	22.00	1.271	-	-	-0.02	1.530	1.944
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 7	DSI6	518598	2592.99	1	20.96	22.00	1.271	-	-	0.12	0.967	1.229
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	Ant 7	DSI6	518598	2592.99	1	20.96	22.00	1.271	-	-	0.11	1.120	1.423
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 7	DSI6	518598	2592.99	1	20.99	22.00	1.262	-	-	0.07	1.480	1.868
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-30	Bottom Side	0mm	Ant 7	DSI6	518598	2592.99	1	20.99	22.00	1.262	-	-	-0.1	1.130	1.426
<b>3000~4000 MHz</b>																					
	LTE Band 48	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI6	55830	3609	1	16.25	17.20	1.245	62.9	1.006	0.01	0.296	0.371
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI6	55830	3609	1	16.25	17.20	1.245	62.9	1.006	0.03	0.563	0.705
116	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI6	55830	3609	1	16.25	17.20	1.245	62.9	1.006	0.12	1.330	1.665
	LTE Band 48C	20M	QPSK	1	99	-	Left Side	0mm	Ant 2	DSI6	55830+55632	3609+3589.2	1	16.23	17.20	1.250	62.9	1.006	0.12	1.240	1.560
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI6	55340	3560	1	16.21	17.20	1.256	62.9	1.006	-0.05	1.210	1.529
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI6	56150	3641	1	16.24	17.20	1.247	62.9	1.006	0.12	1.300	1.631
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI6	56640	3690	1	16.12	17.20	1.282	62.9	1.006	0.06	1.070	1.380
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI4	55830	3609	1	22.93	24.00	1.279	62.9	1.006	0.07	0.587	0.756
	LTE Band 48	20M	QPSK	1	0	-	Back	9mm	Ant 2	DSI4	55830	3609	1	22.93	24.00	1.279	62.9	1.006	0.06	0.566	0.728
	LTE Band 48	20M	QPSK	1	0	-	Left Side	12mm	Ant 2	DSI4	55830	3609	1	22.93	24.00	1.279	62.9	1.006	0.07	0.675	0.869
	LTE Band 48	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI6	55830	3609	1	16.22	17.20	1.253	62.9	1.006	0.07	0.287	0.362
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI6	55830	3609	1	16.22	17.20	1.253	62.9	1.006	0.1	0.557	0.702
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI6	55830	3609	1	16.22	17.20	1.253	62.9	1.006	-0.05	1.270	1.601
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI6	55340	3560	1	16.14	17.20	1.276	62.9	1.006	0.01	1.130	1.451
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI6	56150	3641	1	16.10	17.20	1.288	62.9	1.006	0.08	1.210	1.568
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI6	56640	3690	1	16.07	17.20	1.297	62.9	1.006	0.09	0.991	1.293
	LTE Band 48	20M	QPSK	100	0	-	Left Side	0mm	Ant 2	DSI6	55830	3609	1	16.14	17.20	1.276	62.9	1.006	0.12	1.120	1.438
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI4	55830	3609	1	17.98	18.70	1.180	62.9	1.006	-0.05	1.340	1.591
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI4	55340	3560	1	17.91	18.70	1.199	62.9	1.006	-0.11	1.360	1.641
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI4	56150	3641	1	17.89	18.70	1.205	62.9	1.006	0.01	1.280	1.552
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	DSI4	56640	3690	1	17.87	18.70	1.211	62.9	1.006	-0.08	1.110	1.352
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 8	DSI4	55830	3609	1	17.91	18.70	1.199	62.9	1.006	0.03	1.280	1.545
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 8	DSI4	55340	3560	1	17.74	18.70	1.247	62.9	1.006	-0.06	1.300	1.631
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 8	DSI4	56150	3641	1	17.79	18.70	1.233	62.9	1.006	0.06	1.230	1.526
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 8	DSI4	56640	3690	1	17.83	18.70	1.222	62.9	1.006	0.01	1.060	1.303
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 8	DSI4	55830	3609	1	17.90	18.70	1.202	62.9	1.006	-0.11	1.230	1.488
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 10	DSI4	55830	3609	1	14.76	15.50	1.186	62.9	1.006	-0.09	0.830	0.990
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 10	DSI4	55340	3560	1	14.75	15.50	1.189	62.9	1.006	0.1	0.820	0.980
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 10	DSI4	56150	3641	1	14.72	15.50	1.197	62.9	1.006	-0.02	0.717	0.863
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 10	DSI4	56640	3690	1	14.65	15.50	1.216	62.9	1.006	0.12	0.672	0.822
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 10	DSI4	55830	3609	1	14.73	15.50	1.194	62.9	1.006	0.07	0.811	0.974
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	0mm	Ant 2	DSI6	641666	3624.99	1	14.37	15.50	1.297	-	-	-0.04	0.302	0.392
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	DSI6	641666	3624.99	1	14.37	15.50	1.297	-	-	-0.1	0.690	0.895
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	DSI6	641666	3624.99	1	14.37	15.50	1.297	-	-	-0.09	1.250	1.621
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	DSI6	638000	3570	1	14.29	15.50	1.321	-	-	0.11	1.190	1.572
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	DSI6	645332	3679.98	1	14.18	15.50	1.355	-	-	0.04	1.110	1.504
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	DSI4	641666	3624.99	1	23.00	24.00	1.259	-	-	-0.04	0.654	0.823
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	9mm	Ant 2	DSI4	641666	3624.99	1	23.00	24.00	1.259	-	-	0.02	0.554	0.697
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	12mm	Ant 2	DSI4	641666	3624.99	1	23.00	24.00	1.259	-	-	0.05	0.690	0.869
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	0mm	Ant 2	DSI6	641666	3624.99	1	14.29	15.50	1.321	-	-	-0.02	0.308	0.407
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 2	DSI6	641666	3624.99	1	14.29	15.50	1.321	-	-	0.1	0.695	0.918
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	0mm	Ant 2	DSI6	641666	3624.99	1	14.29	15.50	1.321	-	-	-0.11	1.290	1.704
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	0mm	Ant 2	DSI6	638000	3570	1	14.23	15.50	1.340	-	-	0.06	1.230	1.648
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	0mm	Ant 2	DSI6	645332	3679.98	1	14.25	15.50	1.334	-	-	-0.08	1.160	1.547
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 2	DSI4	641666	3624.99	1	22.85	24.00	1.303	-	-	0.07	0.647	0.843
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	9mm	Ant 2	DSI4	641666	3624.99	1	22.85	24.00	1.303	-	-	-0.08	0.550	0.717
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	12mm	Ant 2	DSI4	641666	3624.99	1	22.85	24.00	1.303	-	-	0.03	0.658	0.857
	FR1 n48	40M	QPSK	100	0	DFT-30	Left Side	0mm	Ant 2	DSI6	641666	3624.99	1	14.23	15.50	1.340	-	-	-0.11	1.160	1.554



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	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	DSi6	641666	3624.99	1	20.89	22.00	1.291	-	-	0.04	1.020	1.317
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	DSi6	641666	3624.99	1	20.89	22.00	1.291	-	-	0.01	1.440	1.859
117	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	DSi6	638000	3570	1	20.77	22.00	1.327	-	-	-0.02	1.480	1.965
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	DSi6	645332	3679.98	1	20.73	22.00	1.340	-	-	-0.02	1.310	1.755
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	13mm	Ant 5	DSi4	641666	3624.99	1	21.92	23.00	1.282	-	-	0.09	0.077	0.099
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	14mm	Ant 5	DSi4	638000	3570	1	21.83	23.00	1.309	-	-	-0.06	0.091	0.119
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 5	DSi6	641666	3624.99	1	20.75	22.00	1.334	-	-	-0.07	0.946	1.262
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	0mm	Ant 5	DSi6	641666	3624.99	1	20.75	22.00	1.334	-	-	0.1	1.360	1.814
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	0mm	Ant 5	DSi6	638000	3570	1	20.70	22.00	1.349	-	-	-0.04	1.400	1.889
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	0mm	Ant 5	DSi6	645332	3679.98	1	20.70	22.00	1.349	-	-	0.01	1.230	1.659
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Side	0mm	Ant 5	DSi6	641666	3624.99	1	20.57	22.00	1.390	-	-	0.08	1.310	1.821
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSi4	641666	3624.99	1	16.40	17.50	1.288	-	-	-0.11	1.360	1.752
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSi4	638000	3570	1	16.35	17.50	1.303	-	-	-0.01	1.470	1.916
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSi4	645332	3679.98	1	16.33	17.50	1.309	-	-	-0.06	1.250	1.636
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 8	DSi4	641666	3624.99	1	16.25	17.50	1.334	-	-	-0.07	1.330	1.774
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 8	DSi4	638000	3570	1	16.14	17.50	1.368	-	-	-0.1	1.370	1.874
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 8	DSi4	645332	3679.98	1	16.22	17.50	1.343	-	-	0.09	1.180	1.584
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	0mm	Ant 8	DSi4	641666	3624.99	1	16.24	17.50	1.337	-	-	0.11	1.280	1.711
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	DSi4	638000	3570	1	13.87	14.50	1.156	-	-	0.07	0.759	0.877
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	DSi4	641666	3624.99	1	13.86	14.50	1.159	-	-	0.01	0.725	0.840
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	DSi4	645332	3679.98	1	13.72	14.50	1.197	-	-	0.09	0.678	0.811
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 10	DSi4	638000	3570	1	13.81	14.50	1.172	-	-	-0.05	0.770	0.903
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 10	DSi4	641666	3624.99	1	13.80	14.50	1.175	-	-	0.05	0.753	0.885
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 10	DSi4	645332	3679.98	1	13.77	14.50	1.183	-	-	0.06	0.701	0.829
	FR1 n77_Part270_HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 2	DSi6	656000	3840	1	14.00	15.00	1.259	-	-	0.01	0.349	0.439
	FR1 n77_Part270_HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	DSi6	656000	3840	1	14.00	15.00	1.259	-	-	-0.05	0.787	0.991
	FR1 n77_Part270_HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	DSi6	656000	3840	1	14.00	15.00	1.259	-	-	0.09	1.330	1.674
	FR1 n77_Part270_HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	DSi4	656000	3840	1	26.01	27.00	1.256	-	-	-0.11	0.958	1.203
	FR1 n77_Part270_HPUE	100M	QPSK	1	1	DFT-30	Back	9mm	Ant 2	DSi4	656000	3840	1	26.01	27.00	1.256	-	-	-0.05	0.750	0.942
	FR1 n77_Part270_HPUE	100M	QPSK	1	1	DFT-30	Left Side	12mm	Ant 2	DSi4	656000	3840	1	26.01	27.00	1.256	-	-	-0.12	0.979	1.230
	FR1 n77_Part270_HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 2	DSi6	656000	3840	1	13.90	15.00	1.288	-	-	-0.08	0.326	0.420
	FR1 n77_Part270_HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSi6	656000	3840	1	13.90	15.00	1.288	-	-	-0.04	0.743	0.957
	FR1 n77_Part270_HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSi6	656000	3840	1	13.90	15.00	1.288	-	-	0.12	1.270	1.636
	FR1 n77_Part270_HPUE	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 2	DSi6	656000	3840	1	13.92	15.00	1.282	-	-	0.09	1.210	1.552
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 2	DSi6	633332	3499.98	1	14.44	15.00	1.138	-	-	0.03	0.378	0.430
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	DSi6	633332	3499.98	1	14.44	15.00	1.138	-	-	0.11	0.744	0.846
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	DSi6	633332	3499.98	1	14.44	15.00	1.138	-	-	-0.01	1.310	1.490
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	DSi4	633332	3499.98	1	26.41	27.00	1.146	-	-	-0.01	0.969	1.110
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	9mm	Ant 2	DSi4	633332	3499.98	1	26.41	27.00	1.146	-	-	0.01	0.829	0.950
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Left Side	12mm	Ant 2	DSi4	633332	3499.98	1	26.41	27.00	1.146	-	-	0.03	1.080	1.237
	FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 2	DSi6	633332	3499.98	1	14.42	15.00	1.143	-	-	0.12	0.354	0.405
	FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSi6	633332	3499.98	1	14.42	15.00	1.143	-	-	0.07	0.698	0.798
	FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSi6	633332	3499.98	1	14.42	15.00	1.143	-	-	-0.07	1.280	1.463
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	DSi6	656000	3840	1	21.77	23.00	1.327	-	-	-0.09	0.876	1.163
118	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	DSi6	656000	3840	1	21.77	23.00	1.327	-	-	0.08	1.450	1.925
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	DSi6	656000	3840	2	21.77	23.00	1.327	-	-	0.05	1.370	1.819
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 5	DSi6	656000	3840	1	21.77	23.00	1.327	-	-	0.01	0.475	0.631
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	13mm	Ant 5	DSi4	656000	3840	1	23.70	25.00	1.349	-	-	-0.06	0.063	0.085
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Right Side	14mm	Ant 5	DSi4	656000	3840	1	23.70	25.00	1.349	-	-	0.1	0.086	0.116
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Top Side	12mm	Ant 5	DSi4	656000	3840	1	23.70	25.00	1.349	-	-	-0.02	0.168	0.227
	FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	DSi6	656000	3840	1	21.68	23.00	1.355	-	-	0.07	0.846	1.146
	FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 5	DSi6	656000	3840	1	21.68	23.00	1.355	-	-	-0.04	1.390	1.884
	FR1 n77_Part27Q_HPUE	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 5	DSi6	656000	3840	1	21.68	23.00	1.355	-	-	-0.09	0.444	0.602
	FR1 n77_Part27Q_HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 5	DSi6	656000	3840	1	21.64	23.00	1.368	-	-	0.01	0.836	1.143
	FR1 n77_Part27Q_HPUE	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 5	DSi6	656000	3840	1	21.64	23.00	1.368	-	-	0.08	1.380	1.887
	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	DSi6	633332	3499.98	1	22.17	23.00	1.211	-	-	0.06	0.938	1.136



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Table with 20 columns: FR1 n77\_Part27Q\_HPUE, 100M, QPSK, 1, 1, DFT-30, Right Side, 0mm, Ant 5, DSI6, 633332, 3499.98, 1, 22.17, 23.00, 1.211, -, -, 0.09, 1.560, 1.889

Table with 19 columns: Plot No., Band, Mode, Test Position, Gap (mm), Antenna, Power State, Ch., Freq. (MHz), Sample, 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)





	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Simultaneous	58	5290	1	12.30	13.50	1.318	93.02	1.075	0.05	0.699	0.991
	WLAN5.3GHz	802.11a 6Mbps	Front	11mm	Ant 5	Full Power	64	5320	1	20.44	22.00	1.431	98.35	1.017	-0.08	0.154	0.224
	WLAN5.3GHz	802.11a 6Mbps	Back	13mm	Ant 5	Full Power	64	5320	1	20.44	22.00	1.431	98.35	1.017	-0.07	0.214	0.312
	WLAN5.3GHz	802.11a 6Mbps	Right Side	14mm	Ant 5	Full Power	64	5320	1	20.44	22.00	1.431	98.35	1.017	-0.03	0.464	0.675
	WLAN5.3GHz	802.11a 6Mbps	Top Side	12mm	Ant 5	Full Power	64	5320	1	20.44	22.00	1.431	98.35	1.017	0.02	0.152	0.221
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5	Standalone	134	5670	1	16.82	18.00	1.312	96.46	1.037	0.12	0.768	1.045
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	Standalone	134	5670	1	16.82	18.00	1.312	96.46	1.037	0.1	0.570	0.776
122	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	134	5670	1	16.82	18.00	1.312	96.46	1.037	-0.08	2.200	2.994
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	134	5670	2	16.82	18.00	1.312	96.46	1.037	-0.06	1.330	1.810
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	Standalone	134	5670	1	16.82	18.00	1.312	96.46	1.037	-0.04	0.515	0.701
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	102	5510	1	16.40	18.00	1.445	96.46	1.037	-0.01	1.960	2.938
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	110	5550	1	16.32	18.00	1.472	96.46	1.037	0.07	1.730	2.641
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	126	5630	1	16.05	18.00	1.567	96.46	1.037	0.02	1.680	2.730
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5	Simultaneous	106	5530	1	13.63	15.00	1.371	93.02	1.075	-0.02	0.310	0.457
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Simultaneous	106	5530	1	13.63	15.00	1.371	93.02	1.075	-0.02	0.220	0.324
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Simultaneous	106	5530	1	13.63	15.00	1.371	93.02	1.075	-0.02	0.671	0.989
	WLAN5.5GHz	802.11a 6Mbps	Front	11mm	Ant 5	Full Power	116	5580	1	20.47	22.00	1.422	98.35	1.017	0.03	0.131	0.189
	WLAN5.5GHz	802.11a 6Mbps	Back	13mm	Ant 5	Full Power	116	5580	1	20.47	22.00	1.422	98.35	1.017	0.07	0.157	0.227
	WLAN5.5GHz	802.11a 6Mbps	Right Side	14mm	Ant 5	Full Power	116	5580	1	20.47	22.00	1.422	98.35	1.017	-0.1	0.346	0.500
	WLAN5.5GHz	802.11a 6Mbps	Top Side	12mm	Ant 5	Full Power	116	5580	1	20.47	22.00	1.422	98.35	1.017	-0.01	0.106	0.153
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5	Standalone	155	5775	1	16.10	17.50	1.380	93.02	1.075	-0.12	0.831	1.233
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Standalone	155	5775	1	16.10	17.50	1.380	93.02	1.075	0.01	0.549	0.815
123	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Standalone	155	5775	1	16.10	17.50	1.380	93.02	1.075	-0.02	2.010	2.983
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5	Standalone	155	5775	1	16.10	17.50	1.380	93.02	1.075	-0.04	0.623	0.924
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5	Simultaneous	155	5775	1	12.59	14.00	1.384	93.02	1.075	-0.03	0.284	0.422
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Simultaneous	155	5775	1	12.59	14.00	1.384	93.02	1.075	-0.03	0.200	0.297
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Simultaneous	155	5775	1	12.59	14.00	1.384	93.02	1.075	-0.03	0.646	0.961
	WLAN5.8GHz	802.11a 6Mbps	Front	11mm	Ant 5	Full Power	149	5745	1	20.60	22.00	1.380	98.35	1.017	-0.08	0.148	0.208
	WLAN5.8GHz	802.11a 6Mbps	Back	13mm	Ant 5	Full Power	149	5745	1	20.60	22.00	1.380	98.35	1.017	-0.07	0.147	0.206
	WLAN5.8GHz	802.11a 6Mbps	Right Side	14mm	Ant 5	Full Power	149	5745	1	20.60	22.00	1.380	98.35	1.017	0.03	0.322	0.452
	WLAN5.8GHz	802.11a 6Mbps	Top Side	12mm	Ant 5	Full Power	149	5745	1	20.60	22.00	1.380	98.35	1.017	-0.1	0.113	0.159



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5	Standalone	54	5270	1	15.06	16.50	1.393	96.46	1.037	0.02	0.824	1	1.190
2nd	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5	Standalone	54	5270	1	15.06	16.50	1.393	96.46	1.037	0.07	0.801	1.029	1.157
1st	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI3	23330	793	1	23.01	24.00	1.256	-	-	0.03	0.869	1	1.091
2nd	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI3	23330	793	1	23.01	24.00	1.256	-	-	0.08	0.837	1.038	1.051
1st	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	DSI3	26865	831.5	1	23.16	24.00	1.213	-	-	-0.1	0.841	1	1.020
2nd	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	DSI3	26865	831.5	1	23.16	24.00	1.213	-	-	0.06	0.806	1.043	0.978
1st	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	349000	1745	1	18.99	19.50	1.125	-	-	0.14	1.060	1	1.192
2nd	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI3	349000	1745	1	18.99	19.50	1.125	-	-	0.03	0.961	1.103	1.081
1st	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	26340	1880	1	17.27	17.80	1.130	-	-	0.15	1.040	1	1.175
2nd	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	26340	1880	1	17.27	17.80	1.130	-	-	0.03	0.981	1.060	1.108
1st	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 7	DSI3	27710	2310	1	23.07	24.00	1.239	-	-	0.04	0.924	1	1.145
2nd	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 7	DSI3	27710	2310	1	23.07	24.00	1.239	-	-	0.09	0.879	1.051	1.089
1st	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 7	DSI3	41490	2680	1	23.52	24.00	1.117	62.9	1.006	-0.09	0.936	1	1.052
2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 7	DSI3	41490	2680	1	23.52	24.00	1.117	62.9	1.006	0.09	0.897	1.043	1.008
1st	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI3	56150	3641	1	18.58	19.70	1.294	62.9	1.006	0.09	0.830	1	1.081
2nd	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI3	56150	3641	1	18.58	19.70	1.294	62.9	1.006	0.03	0.801	1.036	1.043
1st	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	DSI3	633332	3499.98	1	15.85	16.50	1.161	-	-	0.06	0.935	1	1.086
2nd	FR1 n77_Part27Q_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	DSI3	633332	3499.98	1	13.45	14.00	1.135	-	-	0.1	0.902	1.037	1.048
1st	FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI3	656000	3840	1	12.09	13.00	1.233	-	-	-0.05	0.888	1	1.095
2nd	FR1 n77_Part27O_HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI3	656000	3840	1	12.09	13.00	1.233	-	-	0.01	0.863	1.029	1.064
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Back	5mm	Ant 3	Standalone	6	2437	1	17.10	18.50	1.380	98.28	1.018	-0.07	0.840	1	1.180
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Back	5mm	Ant 3	Standalone	6	2437	1	17.10	18.50	1.380	98.28	1.018	0.03	0.807	1.041	1.134
1st	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Standalone	155	5775	1	15.65	17.00	1.365	93.02	1.075	-0.09	0.802	1	1.176
2nd	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Standalone	155	5775	1	15.65	17.00	1.365	93.02	1.075	0.03	0.783	1.024	1.149

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	349000	1745	1	22.52	23.00	1.117	-	-	0.07	2.490	1	2.781
2nd	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	349000	1745	1	22.52	23.00	1.117	-	-	0.03	2.340	1.064	2.613
1st	FR1 n25	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI6	376500	1882.5	1	23.04	23.50	1.112	-	-	0.12	2.370	1	2.635
2nd	FR1 n25	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI6	376500	1882.5	1	23.04	23.50	1.112	-	-	0.09	2.240	1.058	2.490
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Top Side	0mm	Ant 3	Standalone	6	2437	2	19.56	21.00	1.393	98.28	1.018	0.03	2.050	1	2.907
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Top Side	0mm	Ant 3	Standalone	6	2437	1	19.56	21.00	1.393	98.28	1.018	0.01	1.910	1.073	2.709
1st	WLAN5.2GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	46	5230	1	17.12	18.50	1.374	96.46	1.037	0.06	2.000	1	2.850
2nd	WLAN5.2GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	46	5230	1	17.12	18.50	1.374	96.46	1.037	0.09	1.910	1.047	2.722
1st	WLAN5.5GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	134	5670	1	16.82	18.00	1.312	96.46	1.037	-0.08	2.200	1	2.994
2nd	WLAN5.5GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	Standalone	134	5670	1	16.82	18.00	1.312	96.46	1.037	0.06	2.110	1.043	2.871
1st	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Standalone	155	5775	1	16.10	17.50	1.380	93.02	1.075	-0.02	2.010	1	2.983
2nd	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Standalone	155	5775	1	16.10	17.50	1.380	93.02	1.075	0.01	1.930	1.041	2.864

General Note:

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

**16.6 TDD LTE Linearity Data Analysis**

**General Note:**

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

LTE Band 41(HPUE)-Linearity Data for DSI2-ANT7			LTE Band 41(HPUE)-Linearity Data for DSI2-ANT1		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	18.80	20.40
Reported 1g SAR (W/kg)	0.273	0.368	Reported 1g SAR (W/kg)	0.602	0.548
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	48.02	47.48
Linearity SAR (W/kg)	0.373		Linearity SAR (W/kg)	0.595	
% deviation from expected linearity		-1.24%	% deviation from expected linearity		-7.93%

LTE Band 41(HPUE)-Linearity Data for DSI2-ANT6			LTE Band 41(HPUE)-Linearity Data for DSI2-ANT9		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	22.50	24.10
Reported 1g SAR (W/kg)	0.305	0.429	Reported 1g SAR (W/kg)	0.386	0.417
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	112.57	111.30
Linearity SAR (W/kg)	0.416		Linearity SAR (W/kg)	0.382	
% deviation from expected linearity		3.06%	% deviation from expected linearity		9.26%

LTE Band 41(HPUE)-Linearity Data for DSI7-ANT7			LTE Band 41(HPUE)-Linearity Data for DSI7-ANT1		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	25.70	Maximum Tune up Power (dBm)	18.80	20.40
Reported 1g SAR (W/kg)	1.001	1.099	Reported 1g SAR (W/kg)	0.982	0.900
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	160.87	Frame Averaged (mW)	48.02	47.48
Linearity SAR (W/kg)	1.013		Linearity SAR (W/kg)	0.971	
% deviation from expected linearity		8.51%	% deviation from expected linearity		-7.31%

LTE Band 41(HPUE)-Linearity Data for DSI7-ANT6			LTE Band 41(HPUE)-Linearity Data for DSI7-ANT9		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	21.60	23.20	Maximum Tune up Power (dBm)	20.60	22.20
Reported 1g SAR (W/kg)	0.977	1.008	Reported 1g SAR (W/kg)	0.781	0.698
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	91.50	90.47	Frame Averaged (mW)	72.68	71.86
Linearity SAR (W/kg)	0.966		Linearity SAR (W/kg)	0.772	
% deviation from expected linearity		4.35%	% deviation from expected linearity		-9.61%



LTE Band 41(HPUE)-Linearity Data for DSI3-ANT7			LTE Band 41(HPUE)-Linearity Data for DSI3-ANT1		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	25.70	Maximum Tune up Power (dBm)	21.30	22.90
Reported 1g SAR (W/kg)	1.052	1.118	Reported 1g SAR (W/kg)	0.886	0.883
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	160.87	Frame Averaged (mW)	85.39	84.43
Linearity SAR (W/kg)	1.064		Linearity SAR (W/kg)	0.876	
% deviation from expected linearity		5.04%	% deviation from expected linearity		0.80%

LTE Band 41(HPUE)-Linearity Data for DSI3-ANT6			LTE Band 41(HPUE)-Linearity Data for DSI3-ANT9		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	21.60	23.20	Maximum Tune up Power (dBm)	22.00	23.60
Reported 1g SAR (W/kg)	0.977	1.008	Reported 1g SAR (W/kg)	0.708	0.684
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	91.50	90.47	Frame Averaged (mW)	100.32	99.19
Linearity SAR (W/kg)	0.966		Linearity SAR (W/kg)	0.700	
% deviation from expected linearity		4.35%	% deviation from expected linearity		-2.29%

LTE Band 41(HPUE)-Linearity Data for DSI6-ANT7			LTE Band 41(HPUE)-Linearity Data for DSI6-ANT1		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	26.50	Maximum Tune up Power (dBm)	20.80	22.40
Reported 10g SAR (W/kg)	1.775	1.978	Reported 10g SAR (W/kg)	1.576	1.629
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	193.41	Frame Averaged (mW)	76.10	75.25
Linearity SAR (W/kg)	2.159		Linearity SAR (W/kg)	1.558	
% deviation from expected linearity		-8.39%	% deviation from expected linearity		4.54%

### 17. Simultaneous Transmission Analysis

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

**General Note:**

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- WLAN 2.4GHz and Bluetooth share the same antenna, and they cannot transmit simultaneously each other.
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
- The maximum SAR summation is calculated based on the same configuration and test position.
- For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
  - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
  - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
  - The SPLSR calculated results please refer to section 17.7.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### 17.2 Sub6 Antenna Groups

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

- 1) Case 1: Sum of SAR of one antenna from each of the sub6 AGs and the RF exposure from radios outside Smart Transmit is less than regulatory limits for each supported DSI. This condition must be demonstrated for all antenna combinations of sub6 AGs.
  - i. For a given DSI, obtain the highest *reported* SAR for each antenna out of all supported technologies and frequency bands. Obtain the maximum *reported* SAR for each AG by taking the maximum out of *reported* SAR for all antennas belonging to each AG.
  - ii. Demonstrate that the sum of maximum reported SAR (normalized to regulatory limit) from each of the sub6 AGs and the sum of reported SAR (normalized to regulatory limit) from all supported radios outside of Smart Transmit should be less than 1.0
- 2) Case 2: If the Case 1 is NOT met, then for a given antenna grouping scheme plus external radios/antennas (ERs) (referred to as 'configuration'), demonstrate all AG pairs, all ER pairs and all (AG, ER) pairs in the configuration meet SPLSR criteria (Section 4.3.2 (c) in FCC KDB 447498 D01 v06) for each exposure position under each supported DSI. For a given exposure position under a given DSI, prove all AG pairs, all ER pairs and all (AG, ER) pairs (if there are external radios outside Smart Transmit) in the configuration meet SPLSR.

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

<b>Antenna Group 0 (AG0)</b>	ANT1 & ANT2 & ANT5 & ANT6 & ANT8 & ANT9 & ANT10
<b>Antenna Group 1 (AG1)</b>	ANT0 & ANT7

The conditions are verified through the following criterias:

- i) (SAR1 + SAR2 criteria): If SPLSR criteria is not used, then the highest reported SAR at *Plimit* for each antenna should be obtained out of all supported technologies and frequency bands for each DSI. Demonstrate that the sum of reported SAR of one antenna from each of the sub6 AGs and the sum of RF exposure from all supported radios outside of Smart Transmit should be less than the regulatory limit as given below for each DSI.
  1. Obtain the worst-case reported SAR for each antenna group (i.e., maximum *reported* SAR at *Plimit* out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure for each external radio, and demonstrate that the sum of these RF exposures meets: { [max.SAR.AG0+ max.SAR.AG1] + WIFI/BT worst-case reported SAR} ≤ 1.6 (for 1g, or 4.0 for 10g). (WIFI/BT worst-case reported SAR is the worst SAR in all combinations of WIFI and BT simultaneous transmission)
- ii) (SPLSR criteria): For each antenna, obtain the highest reported SAR value at *Plimit* out of all supported technologies for each frequency band. Using these values, demonstrate for a given DSI that every antenna from one sub6 AG meets SPLSR criteria with every antenna in another sub6 AG for all frequency bands. This criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios as given below for each DSI:
  - a. SPLSR criteria should be met for all antenna pair combinations of AG0 and AG1. As it can be seen, these include all combinations of antenna groups, antennas, and frequency bands.
  - b. Obtain combined SAR per AG: Obtain the worst-case conservative combined SAR and its peak location for each AG.
  - c. Use the 'closest' peak location out of all antennas of AGj to evaluate SPLSR with other AGs in the configuration. Note, by 'closest', select the peak location out of all antennas (ε AGj) that is closest to the peak location of other AG where SPLSR is evaluated.
- iii) (combination of SPLSR & SAR1+SAR2 criteria): If SPLSR criteria for all the combinations of sub6 antenna groups in (i) is demonstrated to show that each AG is mutually exclusive from other AGs, and if the WIFI/BT antennas supported outside of Smart Transmit do not meet SPLSR criteria, then the condition in (ii) reduces to: {max.SAR.AG0 + worst-case reported SAR} ≤ 1.6 and {max.SAR.AG1+ worst-case reported SAR } ≤ 1.6 for compliance demonstration (for 1g, or 4.0 for 10g).

For summed SAR results and SPLSR detailed analysis please refer to section 17.3 / 17.4 / 17.5 / 17.6/17.7 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

### 17.3 Head Exposure Conditions

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

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

**<AG0 maximum report SAR>:**

Test Position	Ant1	Ant2	Ant5	Ant6	Ant8	Ant9	Ant10	All Antenna MAX SAR 1g W/kg
Right Cheek	0.634	0.493	0.313	0.499	0.486	0.260	0.087	0.634
Right Tilted	0.642	0.192	0.329	0.292	0.388	0.053	0.000	0.642
Left Cheek	0.428	0.134	0.693	0.311	0.266	0.468	0.053	0.693
Left Tilted	0.393	0.085	0.564	0.321	0.440	0.101	0.000	0.564

**<AG1 maximum report SAR>:**

Test Position	Ant0	Ant7
Right Cheek	0.127	0.283
Right Tilted	0.073	0.317
Left Cheek	0.102	0.535
Left Tilted	0.079	0.176

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

Test Position	1	2	3	1+3 Summed 1g SAR (W/kg)	Wlan/BT worse case
	Bluetooth Ant 3	2.4GWLAN Ant 3	5GWLAN Ant 5		
Right Cheek	0.037	0.482	0.392	0.429	0.48
Right Tilted	0.033	0.482	0.392	0.425	0.48
Left Cheek	0.108	0.482	0.392	0.500	0.50
Left Tilted	0.059	0.482	0.392	0.451	0.48

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

Test Position	AG0	AG1	Wlan/BT worse case	AG0+AG1+Wlan/BT worse case
Right Cheek	0.634	0.283	0.482	1.40
Right Tilted	0.642	0.317	0.482	1.44
Left Cheek	0.693	0.535	0.500	<b>1.73</b>
Left Tilted	0.564	0.176	0.482	1.22

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





Left Cheek					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+Wlan/BT	SPLSR
	SAR	SAR			
Ant1-Ant0	0.428	0.102	0.500	1.03	
Ant2-Ant0	0.134	0.102	0.500	0.74	
Ant5-Ant0	0.693	0.102	0.500	1.30	
Ant6-Ant0	0.311	0.102	0.500	0.91	
Ant8-Ant0	0.266	0.102	0.500	0.87	
Ant9-Ant0	0.468	0.102	0.500	1.07	
Ant10-Ant0	0.053	0.102	0.500	0.66	
Ant1-Ant7	0.428	0.535	0.500	1.46	
Ant2-Ant7	0.134	0.535	0.500	1.17	
Ant5-Ant7	0.693	0.535	0.500	1.73	Case 1
Ant6-Ant7	0.311	0.535	0.500	1.35	
Ant8-Ant7	0.266	0.535	0.500	1.30	
Ant9-Ant7	0.468	0.535	0.500	1.50	
Ant10-Ant7	0.053	0.535	0.500	1.09	

**17.4 Hotspot Exposure Conditions**

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

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

**<AG0 maximum report SAR>:**

Test Position	Ant1	Ant2	Ant5	Ant6	Ant8	Ant9	Ant10	All Antenna MAX SAR 1g W/kg
Front	0.746	0.541	0.479	0.067	0.120	0.376	0.029	0.746
Back	1.099	1.086	0.798	1.083	1.095	0.795	0.788	1.099
Left Side	0.417	0.953	0.000	0.272	0.017	0.000	0.036	0.953
Right Side	0.288	0.000	0.799	0.000	0.124	0.792	0.041	0.799
Top Side	1.181	0.092	0.570	0.140	0.145	0.037	0.027	1.181
Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**<AG1 maximum report SAR>:**

Test Position	Ant0	Ant7	All Antenna MAX SAR 1g W/kg
Front	0.751	1.125	1.125
Back	1.192	1.145	1.192
Left Side	0.294	0.888	0.888
Right Side	0.320	0.000	0.320
Top Side	0.000	0.000	0.000
Bottom Side	1.192	1.099	1.192

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

Test Position	1	2	3	1+3 Summed 1g SAR (W/kg)	Wlan/BT worse case
	Bluetooth Ant 3	2.4GWLAN Ant 3	5GWLAN Ant 5		
Front	0.026	0.177	0.194	0.220	0.220
Back	0.087	0.437	0.361	0.448	0.448
Left Side	0.000	0.000	0.000	0.000	0.000
Right Side	0.039	0.190	0.421	0.460	0.460
Top Side	0.046	0.271	0.156	0.202	0.271
Bottom Side	0.000	0.000	0.000	0.000	0.000

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

Test Position	AG0	AG1	Wlan/BT worse case	AG0+AG1+WLAN/BT worse case
Front	0.746	1.125	0.22	2.09
Back	1.099	1.192	0.45	2.74
Left Side	0.953	0.888	0.00	1.84
Right Side	0.799	0.320	0.46	1.58
Top Side	1.181	0.000	0.27	1.45
Bottom Side	0.000	1.192	0.00	1.19

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



Front					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
Ant1-Ant0	0.746	0.751	0.220	1.72	Case 2
Ant2-Ant0	0.541	0.751	0.220	1.51	
Ant5-Ant0	0.479	0.751	0.220	1.45	
Ant6-Ant0	0.067	0.751	0.220	1.04	
Ant8-Ant0	0.120	0.751	0.220	1.09	
Ant9-Ant0	0.376	0.751	0.220	1.35	
Ant10-Ant0	0.029	0.751	0.220	1.00	
Ant1-Ant7	0.746	1.125	0.220	2.09	Case 3
Ant2-Ant7	0.541	1.125	0.220	1.89	Case 4
Ant5-Ant7	0.479	1.125	0.220	1.82	Case 5
Ant6-Ant7	0.067	1.125	0.220	1.41	
Ant8-Ant7	0.120	1.125	0.220	1.47	
Ant9-Ant7	0.376	1.125	0.220	1.72	Case 6
Ant10-Ant7	0.029	1.125	0.220	1.37	

Left Side				
Ant,combination	AG0	AG1	AG0+AG1	SPLSR
	SAR	SAR		
Ant1-Ant0	0.417	0.294	0.71	
Ant2-Ant0	0.953	0.294	1.25	
Ant5-Ant0	0.000	0.294	0.29	
Ant6-Ant0	0.272	0.294	0.57	
Ant8-Ant0	0.061	0.294	0.36	
Ant9-Ant0	0.000	0.294	0.29	
Ant10-Ant0	0.036	0.294	0.33	
Ant1-Ant7	0.417	0.888	1.31	
Ant2-Ant7	0.953	0.888	1.84	Case 21
Ant5-Ant7	0.000	0.888	0.89	
Ant6-Ant7	0.272	0.888	1.16	
Ant8-Ant7	0.061	0.888	0.95	
Ant9-Ant7	0.000	0.888	0.89	
Ant10-Ant7	0.036	0.888	0.92	



Back					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
Ant1-Ant0	1.099	1.192	0.448	2.739	Case 7
Ant2-Ant0	1.086	1.192	0.448	2.726	Case 8
Ant5-Ant0	0.798	1.192	0.448	2.438	Case 9
Ant6-Ant0	1.083	1.192	0.448	2.723	Case 10
Ant8-Ant0	1.095	1.192	0.448	2.735	Case 11
Ant9-Ant0	0.795	1.192	0.448	2.435	Case 12
Ant10-Ant0	0.806	1.192	0.448	2.446	Case 13
Ant1-Ant7	1.099	1.145	0.448	2.692	Case 14
Ant2-Ant7	1.086	1.145	0.448	2.679	Case 15
Ant5-Ant7	0.798	1.145	0.448	2.391	Case 16
Ant6-Ant7	1.083	1.145	0.448	2.676	Case 17
Ant8-Ant7	1.095	1.145	0.448	2.688	Case 18
Ant9-Ant7	0.795	1.145	0.448	2.388	Case 19
Ant10-Ant7	0.806	1.145	0.448	2.399	Case 20

**17.5 Body-Worn Accessory Exposure Conditions**

**General Note:** The unit of SAR evaluation is W/kg.  
**Simultaneous Transmission Evaluation of WWAN+WLAN+BT:**

**<AG0 maximum report SAR>:**

Test Position	Ant1	Ant2	Ant5	Ant6	Ant8	Ant9	Ant10	All Antenna MAX SAR 1g W/kg
Front	0.746	0.541	0.479	0.067	0.120	0.376	0.029	0.746
Back	1.099	1.086	0.798	1.083	1.095	0.795	0.806	1.099

**<AG1 maximum report SAR>:**

Test Position	Ant0	Ant7	All Antenna MAX SAR 1g W/kg
Right Cheek	0.751	1.125	1.125
Right Tilted	1.192	1.145	1.192

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

Test Position	1	2	3	1+3 Summed 1g SAR (W/kg)	Wlan/BT worse case
	Bluetooth Ant 3	2.4GWLAN Ant 3	5GWLAN Ant 5		
Front	0.031	0.191	0.194	0.225	0.225
Back	0.087	0.437	0.375	0.462	0.462

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

Test Position	AG0	AG1	Wlan/BT worse case	AG0+AG1+WLAN/BT worse case
Front	0.746	1.125	0.23	<b>2.10</b>
Back	1.099	1.192	0.46	<b>2.75</b>

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



Front					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
Ant1-Ant0	0.746	0.751	0.225	1.72	Case 36
Ant2-Ant0	0.541	0.751	0.225	1.52	
Ant5-Ant0	0.479	0.751	0.225	1.46	
Ant6-Ant0	0.067	0.751	0.225	1.04	
Ant8-Ant0	0.120	0.751	0.225	1.10	
Ant9-Ant0	0.376	0.751	0.225	1.35	
Ant10-Ant0	0.029	0.751	0.225	1.01	
Ant1-Ant7	0.746	1.125	0.225	2.10	Case 39
Ant2-Ant7	0.541	1.125	0.225	1.89	Case 40
Ant5-Ant7	0.479	1.125	0.225	1.83	Case 41
Ant6-Ant7	0.067	1.125	0.225	1.42	
Ant8-Ant7	0.120	1.125	0.225	1.47	
Ant9-Ant7	0.376	1.125	0.225	1.73	Case 44
Ant10-Ant7	0.029	1.125	0.225	1.38	

Back					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
Ant1-Ant0	1.099	1.192	0.462	2.75	Case 46
Ant2-Ant0	1.086	1.192	0.462	2.74	Case 47
Ant5-Ant0	0.798	1.192	0.462	2.45	Case 48
Ant6-Ant0	1.083	1.192	0.462	2.74	Case 49
Ant8-Ant0	1.095	1.192	0.462	2.75	Case 50
Ant9-Ant0	0.795	1.192	0.462	2.45	Case 51
Ant10-Ant0	0.806	1.192	0.462	2.46	Case 52
Ant1-Ant7	1.099	1.145	0.462	2.71	Case 53
Ant2-Ant7	1.086	1.145	0.462	2.69	Case 54
Ant5-Ant7	0.798	1.145	0.462	2.41	Case 55
Ant6-Ant7	1.083	1.145	0.462	2.69	Case 56
Ant8-Ant7	1.095	1.145	0.462	2.70	Case 57
Ant9-Ant7	0.795	1.145	0.462	2.40	Case 58
Ant10-Ant7	0.806	1.145	0.462	2.41	Case 59



<Sensor off>

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum report SAR>:

Test Position	Ant1	Ant2	Ant5	Ant6	Ant8	Ant9	Ant10	All Antenna MAX SAR 1g W/kg
Front 14mm	0.308	0.530	0.283	0.152	0.079	0.166	0.009	0.530
Back 21mm	0.423	0.679	0.098	0.386	0.119	0.341	0.049	0.679

<AG1 maximum report SAR>:

Test Position	Ant0	Ant7	All Antenna MAX SAR 1g W/kg
Front 14mm	0.598	0.675	0.675
Back 21mm	0.716	0.383	0.716

<WLAN+BT Worse-case SAR>:

Test Position	1	2	3	1+3 Summed 1g SAR (W/kg)	Wlan/BT worse case
	Bluetooth Ant 3	2.4GWLAN Ant 3	5GWLAN Ant 5		
Front 14mm	0.017	0.227	0.359	0.376	0.376
Back 21mm	0.008	0.184	0.320	0.328	0.328

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

Test Position	AG0	AG1	Wlan/BT worse case	AG0+AG1+WLAN/BT worse case
Front 14mm	0.530	0.675	0.376	1.58
Back 21mm	0.679	0.716	0.328	1.72

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

Back					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
Ant1-Ant0	0.423	0.716	0.328	1.47	
Ant2-Ant0	0.679	0.716	0.328	1.72	Case 60
Ant5-Ant0	0.098	0.716	0.328	1.14	
Ant6-Ant0	0.386	0.716	0.328	1.43	
Ant8-Ant0	0.119	0.716	0.328	1.16	
Ant9-Ant0	0.341	0.716	0.328	1.39	
Ant10-Ant0	0.049	0.716	0.328	1.09	
Ant1-Ant7	0.423	0.383	0.328	1.13	
Ant2-Ant7	0.679	0.383	0.328	1.39	
Ant5-Ant7	0.098	0.383	0.328	0.81	
Ant6-Ant7	0.386	0.383	0.328	1.10	
Ant8-Ant7	0.119	0.383	0.328	0.83	
Ant9-Ant7	0.341	0.383	0.328	1.05	
Ant10-Ant7	0.049	0.383	0.328	0.76	

**17.6 Product specific 10g SAR Exposure Conditions**

**Remark:**

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

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

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

**<AG0 maximum report SAR>:**

Test Position	Ant1	Ant2	Ant5	Ant6	Ant8	Ant9	Ant10	All Antenna MAX SAR 10g W/kg
Front	0.861	0.439	0.000	0.000	0.000	0.000	0.000	0.861
Back	1.690	0.991	1.317	1.680	1.916	0.609	0.990	1.916
Left Side	0.000	1.704	0.000	0.342	0.000	0.000	0.000	1.704
Right Side	0.000	0.000	1.965	0.000	0.000	2.118	0.000	2.118
Top Side	2.033	0.000	0.634	0.000	0.239	0.000	0.000	2.033
Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**<AG1 maximum report SAR>:**

Test Position	Ant0	Ant7	All Antenna MAX SAR 10g W/kg
Front	2.159	1.344	2.159
Back	2.781	2.022	2.781
Left Side	0.000	1.294	1.294
Right Side	0.000	0.000	0.000
Top Side	0.000	0.000	0.000
Bottom Side	2.790	1.573	2.790

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

Test Position	1	2	Wlan/BT worse case
	2.4GWLAN Ant 3	5GWLAN Ant 5	
Front	0.000	0.457	0.46
Back	0.492	0.324	0.49
Left Side	0.000	0.000	0.00
Right Side	0.000	0.991	0.99
Top Side	1.038	0.991	1.04
Bottom Side	0.000	0.000	0.00

**<NFC SAR>:**

Test Position	NFC Ant
Front	0.000
Back	0.021
Left Side	0.000
Right Side	0.000
Top Side	0.000
Bottom Side	0.000





<Simultaneous Transmission analysis ofAG0 + AG1 + WLAN+BT Worse-case+NFC>:

Test Position	AG0	AG1	Wlan/BT worse case	NFC	AG0+AG1+WLAN/BT worse case+NFC
Front	0.861	2.159	0.46	0.000	3.48
Back	1.916	2.781	0.49	0.021	5.21
Left Side	1.704	1.294	0.00	0.000	3.00
Right Side	2.118	0.000	0.99	0.000	3.11
Top Side	2.033	0.000	1.04	0.000	3.07
Bottom Side	0.000	2.790	0.00	0.000	2.79

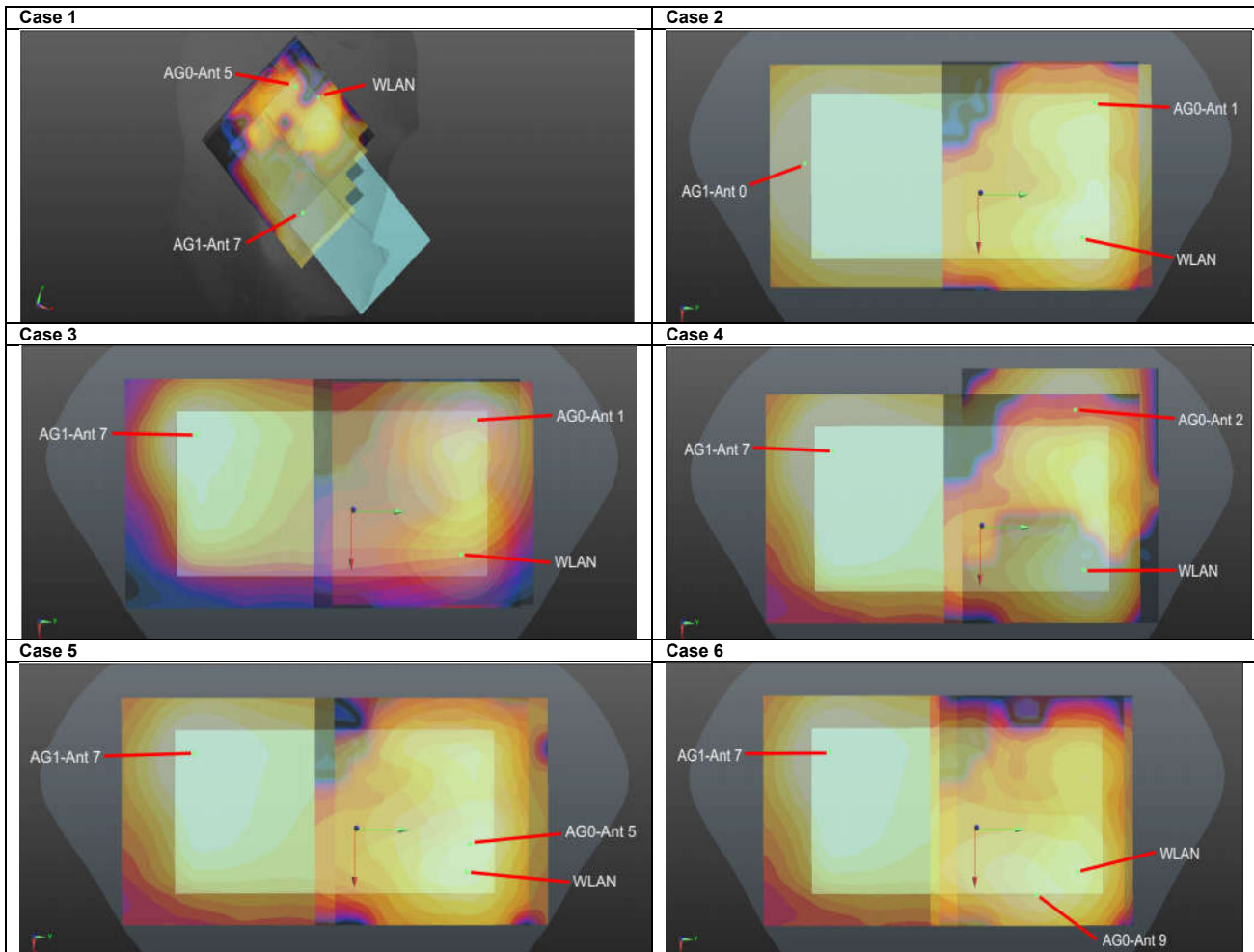
Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

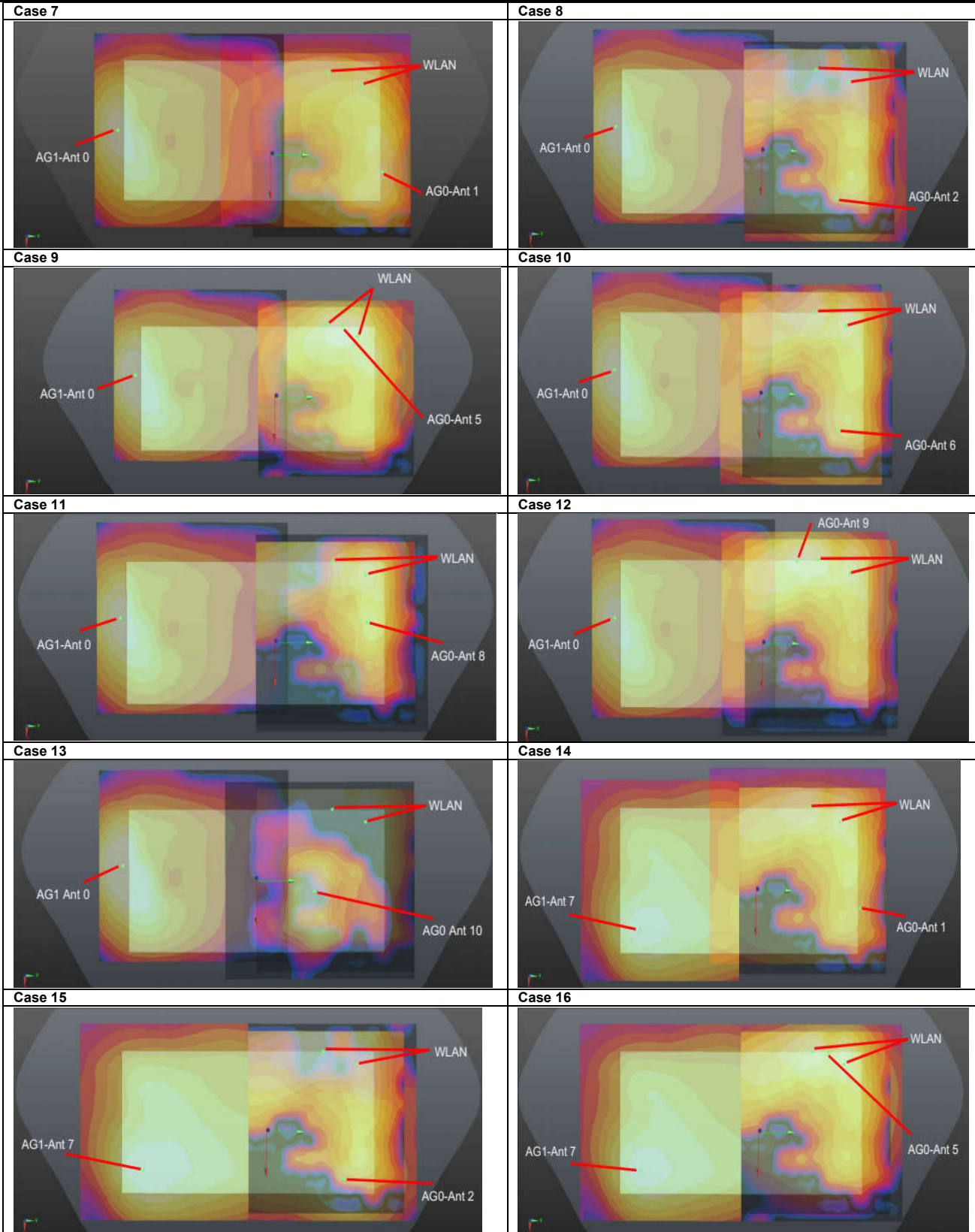
Back						
Ant,combination	AG0	AG1	Wlan/BT worse case	NFC	AG0+AG1+WLAN/BT worse case+NFC	SPLSR
	SAR	SAR				
Ant1-Ant0	1.690	2.781	0.492	0.021	4.98	Case 23
Ant2-Ant0	0.991	2.781	0.492	0.021	4.29	Case 24
Ant5-Ant0	1.317	2.781	0.492	0.021	4.61	Case 25
Ant6-Ant0	1.680	2.781	0.492	0.021	4.97	Case 26
Ant8-Ant0	1.916	2.781	0.492	0.021	5.21	Case 27
Ant9-Ant0	0.609	2.781	0.492	0.021	3.90	
Ant10-Ant0	0.990	2.781	0.492	0.021	4.28	Case 29
Ant1-Ant7	1.690	2.022	0.492	0.021	4.23	Case 30
Ant2-Ant7	0.991	2.022	0.492	0.021	3.53	
Ant5-Ant7	1.317	2.022	0.492	0.021	3.85	
Ant6-Ant7	1.680	2.022	0.492	0.021	4.22	Case 33
Ant8-Ant7	1.916	2.022	0.492	0.021	4.45	Case 34
Ant9-Ant7	0.609	2.022	0.492	0.021	3.14	
Ant10-Ant7	0.990	2.022	0.492	0.021	3.53	

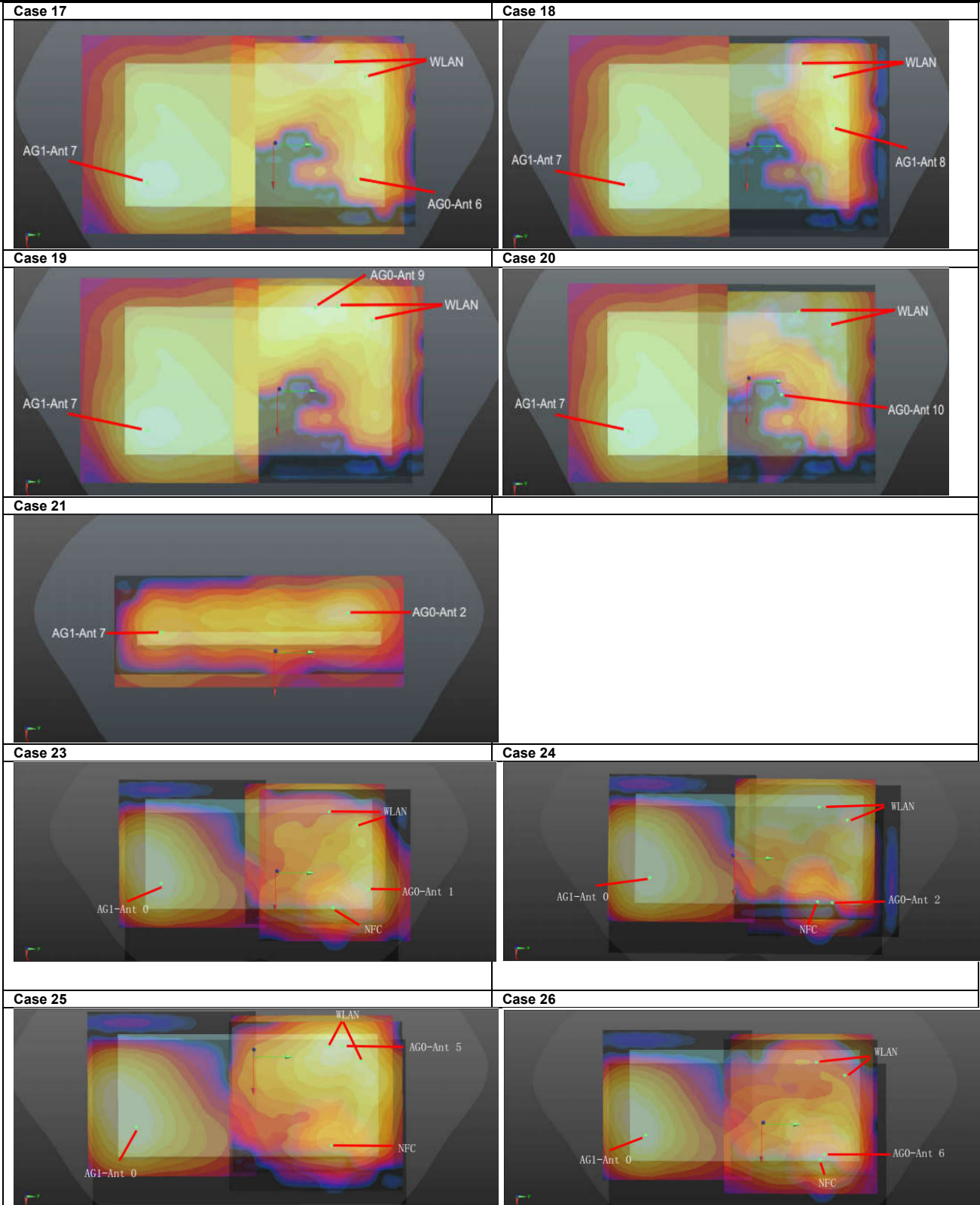
### 17.7 SPLSR Evaluation and Analysis

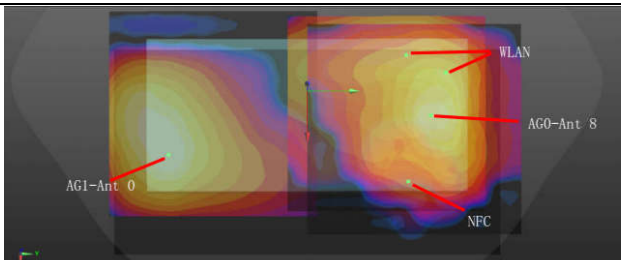
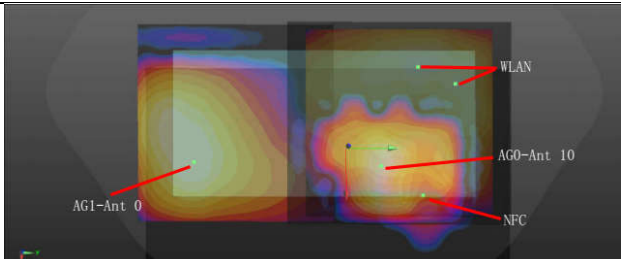
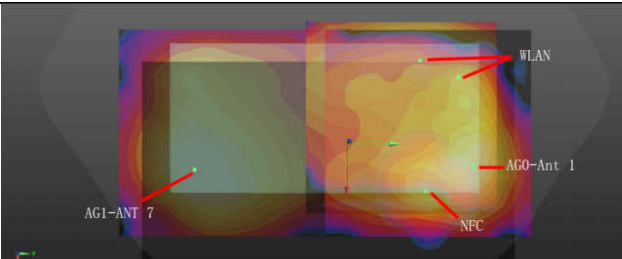
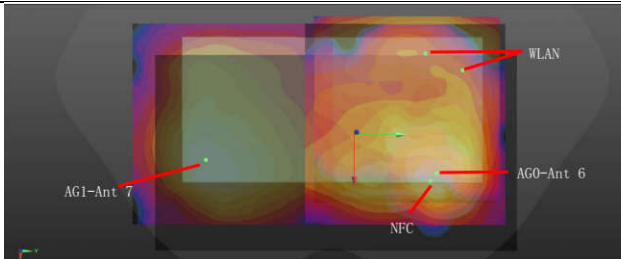
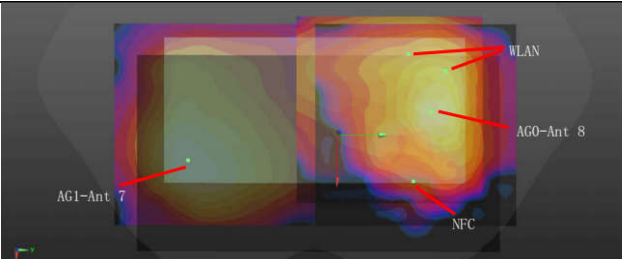
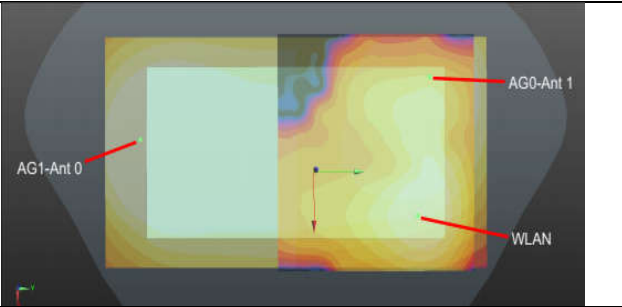
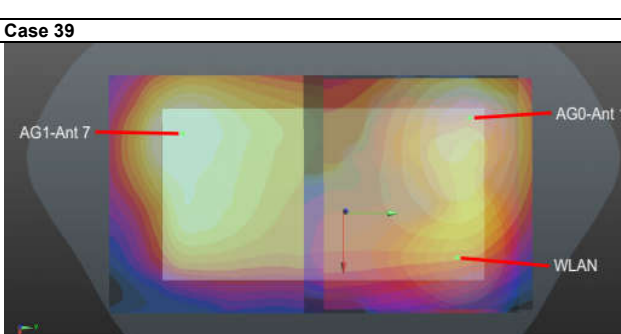
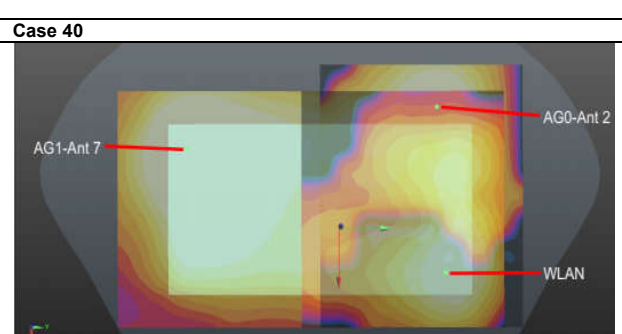
**General Note:**

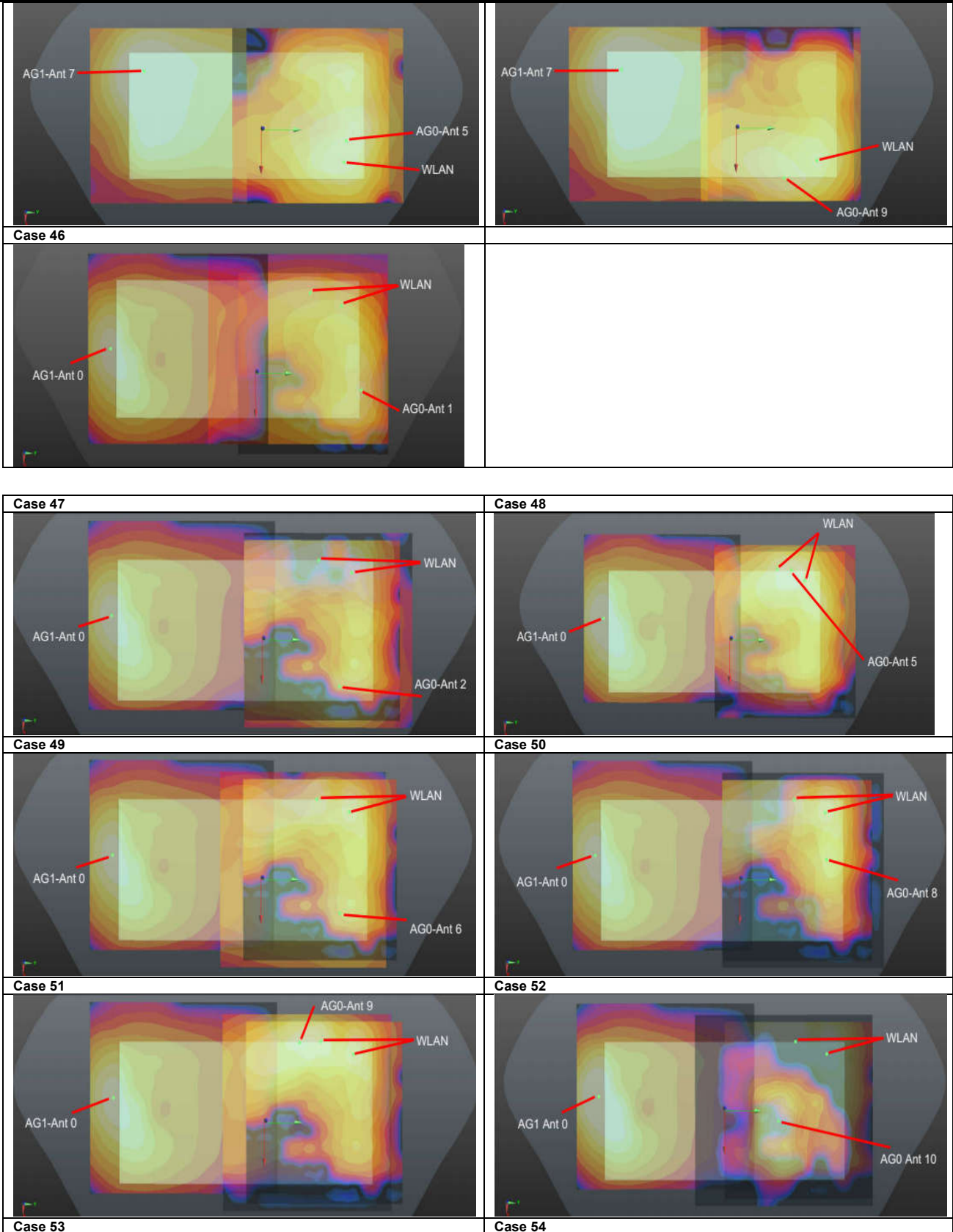
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where  $(x1, y1, z1)$  and  $(x2, y2, z2)$  are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2.  $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$ . If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, AG0 was summed algebraically with the BT/WIFI Antenna 3/5 and NFC antenna for the purposes of hybrid SPLSR combination and they are located at the Top of the device.
4. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.
5. The axis peak locations refer to Section 17.8.

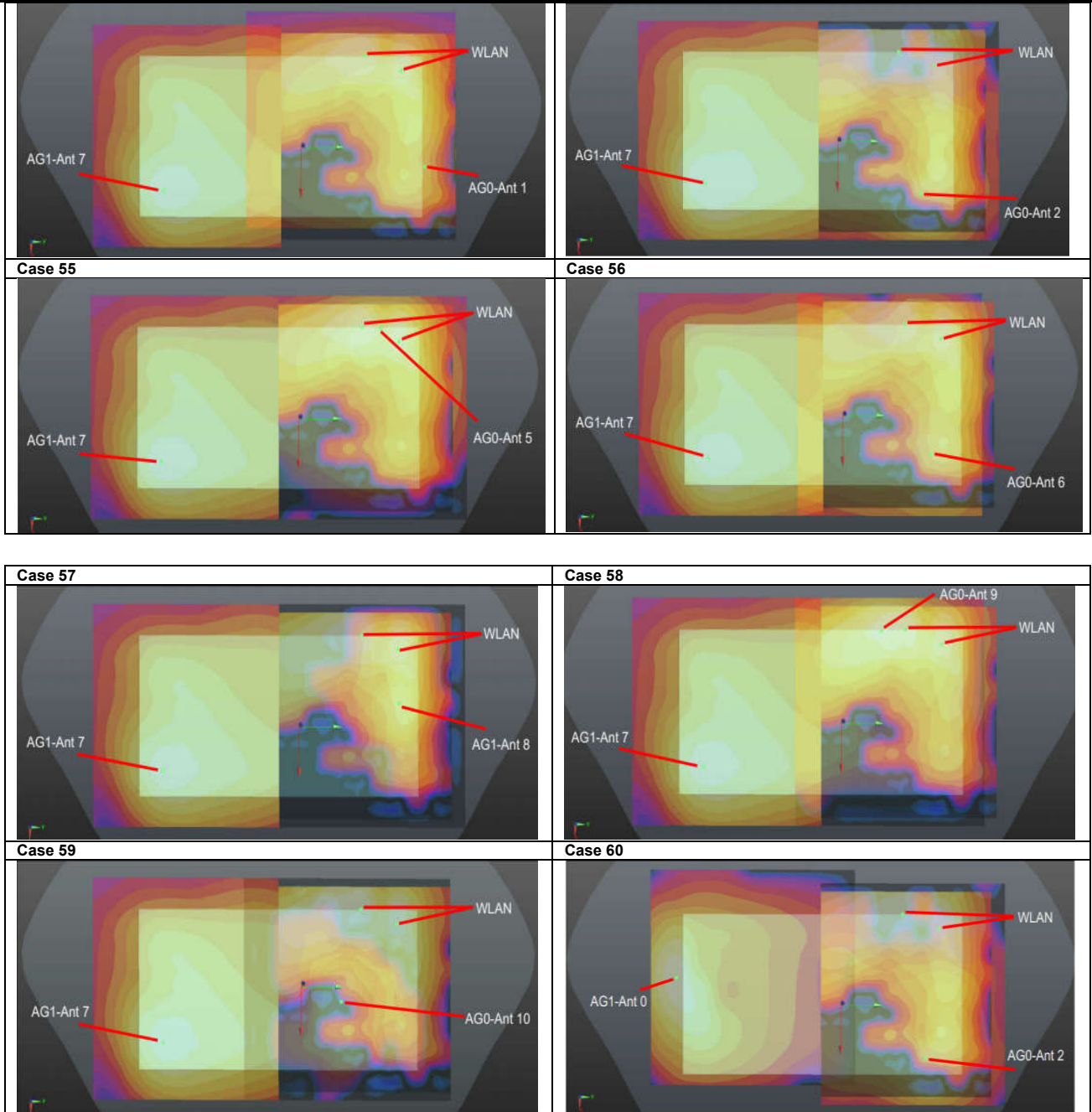






<p><b>Case 27</b></p> 	
<p><b>Case 29</b></p> 	<p><b>Case 30</b></p> 
<p><b>Case 33</b></p> 	<p><b>Case 34</b></p> 
	<p><b>Case 36</b></p> 
<p><b>Case 39</b></p> 	<p><b>Case 40</b></p> 
<p><b>Case 41</b></p>	<p><b>Case 44</b></p>





**<Head>**

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 1	AG1-Ant7	Left Cheek	0.535	0.535	0mm	59.20	256.00	-174.00	76.5	1.73	0.03	Not required
	AG0-Ant5		0.693	1.193	0mm	43.90	331.00	-174.00				
	WLAN		0.500		0mm							
	AG1-Ant7	Left Cheek	0.535	0.535	0mm	59.20	256.00	-174.00	84.5	1.73	0.03	Not required
	AG0-Ant5		0.693	1.193	0mm							
	WLAN		0.500		0mm	24.50	333.00	-174.00				



<Hotspot>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 2	AG1-Ant0	Front	0.751	0.751	5mm	-25.00	-80.40	-203.10	154.5	1.72	0.01	Not required
	AG0-Ant1		0.746	0.966	5mm	-40.00	73.40	-203.00				
	WLAN		0.220		5mm							
	AG1-Ant0	Front	0.751	0.751	5mm	-25.00	-80.40	-203.10	149.1	1.72	0.02	Not required
	AG0-Ant1		0.746	0.966	5mm							
	WLAN		0.220		5mm	5.00	65.70	-203.10				
Case 3	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	143.8	2.09	0.02	Not required
	AG0-Ant1		0.746	0.966	5mm	-40.00	73.40	-203.00				
	WLAN		0.220		5mm							
	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	148.0	2.09	0.02	Not required
	AG0-Ant1		0.746	0.966	5mm							
	WLAN		0.220		5mm	5.00	65.70	-203.10				
Case 4	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	136.7	1.89	0.02	Not required
	AG0-Ant2		0.541	0.761	5mm	-75.00	65.60	-203.10				
	WLAN		0.220		5mm							
	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	148.0	1.89	0.02	Not required
	AG0-Ant2		0.541	0.761	5mm							
	WLAN		0.220		5mm	5.00	65.70	-203.10				
Case 5	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	149.5	1.82	0.02	Not required
	AG0-Ant5		0.479	0.699	5mm	-5.00	71.30	-203.10				
	WLAN		0.220		5mm							
	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	148.0	1.82	0.02	Not required
	AG0-Ant5		0.479	0.699	5mm							
	WLAN		0.220		5mm	5.00	65.70	-203.10				
Case 6	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	127.9	1.72	0.02	Not required
	AG0-Ant9		0.376	0.596	5mm	15.00	37.50	-203.10				
	WLAN		0.220		5mm							
	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	148.0	1.72	0.02	Not required
	AG0-Ant9		0.376	0.596	5mm							
	WLAN		0.220		5mm	5.00	65.70	-203.10				
Case 7	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	134.1	2.74	0.03	Not required
	AG0-Ant1		1.099	1.547	5mm	-5.00	70.80	-203.00				
	WLAN		0.448		5mm							
	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.74	0.04	Not required
	AG0-Ant1		1.099	1.547	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 8	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	133.8	2.73	0.03	Not required
	AG0-Ant2		1.086	1.534	5mm	14.20	66.20	-207.00				
	WLAN		0.448		5mm							
	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.73	0.04	Not required
	AG0-Ant2		1.086	1.534	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 9	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	124.3	2.44	0.03	Not required
	AG0-Ant5		0.798	1.246	5mm	-55.40	58.80	-207.00				
	WLAN		0.448		5mm							
	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.44	0.03	Not required
	AG0-Ant5		0.798	1.246	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 10	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	128.7	2.72	0.03	Not required
	AG0-Ant6		1.083	1.531	5mm	7.00	63.00	-207.00				
	WLAN		0.448		5mm							
	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.72	0.04	Not required
	AG0-Ant6		1.083	1.531	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 11	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	131.3	2.74	0.03	Not required
	AG0-Ant8		1.095	1.543	5mm	-23.00	69.60	-207.00				
	WLAN		0.448		5mm							
	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.74	0.04	Not required
	AG0-Ant8		1.095	1.543	5mm							
	WLAN		0.448		5mm							





Case 12	WLAN		0.448		5mm	-59.00	53.00	-207.00	105.4	2.44	0.04	Not required
	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00				
	AG0-Ant9		0.795	1.243	5mm	-55.40	39.20	-207.00				
WLAN		0.448		5mm								
Case 12	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.44	0.03	Not required
	AG0-Ant9		0.795	1.243	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 13	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	99.1	2.43	0.04	Not required
	AG0-Ant10		0.788	1.236	5mm	-11.00	36.40	-207.00				
	WLAN		0.448		5mm							
Case 13	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.43	0.03	Not required
	AG0-Ant10		0.788	1.236	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 14	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	133.8	2.69	0.03	Not required
	AG0-Ant1		1.099	1.547	5mm	-5.00	70.80	-203.00				
	WLAN		0.448		5mm							
Case 14	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.69	0.03	Not required
	AG0-Ant1		1.099	1.547	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 15	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	128.5	2.68	0.03	Not required
	AG0-Ant2		1.086	1.534	5mm	14.20	66.20	-207.00				
	WLAN		0.448		5mm							
Case 15	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.68	0.03	Not required
	AG0-Ant2		1.086	1.534	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 16	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	137.3	2.39	0.03	Not required
	AG0-Ant5		0.798	1.246	5mm	-55.40	58.80	-207.00				
	WLAN		0.448		5mm							
Case 16	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.39	0.03	Not required
	AG0-Ant5		0.798	1.246	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 17	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	125.2	2.68	0.04	Not required
	AG0-Ant6		1.083	1.531	5mm	7.00	63.00	-207.00				
	WLAN		0.448		5mm							
Case 17	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.68	0.03	Not required
	AG0-Ant6		1.083	1.531	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 18	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	135.7	2.69	0.03	Not required
	AG0-Ant8		1.095	1.543	5mm	-23.00	69.60	-207.00				
	WLAN		0.448		5mm							
Case 18	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.69	0.03	Not required
	AG0-Ant8		1.095	1.543	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 19	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	120.3	2.39	0.03	Not required
	AG0-Ant9		0.795	1.243	5mm	-55.40	39.20	-207.00				
	WLAN		0.448		5mm							
Case 19	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.39	0.03	Not required
	AG0-Ant9		0.795	1.243	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 20	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	100.7	2.38	0.04	Not required
	AG0-Ant10		0.788	1.236	5mm	-11.00	36.40	-207.00				
	WLAN		0.448		5mm							
Case 20	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.38	0.03	Not required
	AG0-Ant10		0.788	1.236	5mm							
	WLAN		0.448		5mm	-59.00	53.00	-207.00				
Case 21	AG1-Ant7	Left Side	0.888	0.888	5mm	-25.00	-57.20	-203.10	114.9	1.84	0.02	Not required
	AG0-Ant2		0.953	0.953	5mm	-28.60	57.60	-207.00				



<Body-worn>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 36	AG1-Ant0	Front	0.751	0.751	5mm	-25.00	-80.40	-203.10	154.5	1.72	0.01	Not required
	AG0-Ant1		0.746	0.971	5mm	-40.00	73.40	-203.00				
	WLAN		0.225		5mm							
Case 36	AG1-Ant0	Front	0.751	0.751	5mm	-25.00	-80.40	-203.10	149.1	1.72	0.02	Not required
	AG0-Ant1		0.746	0.971	5mm	5.00	65.70	-203.10				
	WLAN		0.225		5mm							
Case 39	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	143.8	2.10	0.02	Not required
	AG0-Ant1		0.746	0.971	5mm	-40.00	73.40	-203.00				
	WLAN		0.225		5mm							
Case 39	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	148.0	2.10	0.02	Not required
	AG0-Ant1		0.746	0.971	5mm	5.00	65.70	-203.10				
	WLAN		0.225		5mm							
Case 40	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	136.7	1.89	0.02	Not required
	AG0-Ant2		0.541	0.766	5mm	-75.00	65.60	-203.10				
	WLAN		0.225		5mm							
Case 40	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	148.0	1.89	0.02	Not required
	AG0-Ant2		0.541	0.766	5mm	5.00	65.70	-203.10				
	WLAN		0.225		5mm							
Case 41	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	149.5	1.83	0.02	Not required
	AG0-Ant5		0.479	0.704	5mm	-5.00	71.30	-203.10				
	WLAN		0.225		5mm							
Case 41	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	148.0	1.83	0.02	Not required
	AG0-Ant5		0.479	0.704	5mm	5.00	65.70	-203.10				
	WLAN		0.225		5mm							
Case 44	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	127.9	1.73	0.02	Not required
	AG0-Ant9		0.376	0.601	5mm	15.00	37.50	-203.10				
	WLAN		0.225		5mm							
Case 44	AG1-Ant7	Front	1.125	1.125	5mm	-55.00	-69.60	-203.10	148.0	1.73	0.02	Not required
	AG0-Ant9		0.376	0.601	5mm							
	WLAN		0.225		5mm	5.00	65.70	-203.10				
Case 46	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	134.1	2.75	0.03	Not required
	AG0-Ant1		1.099	1.561	5mm	-5.00	70.80	-203.00				
	WLAN		0.462		5mm							
Case 46	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.75	0.04	Not required
	AG0-Ant1		1.099	1.561	5mm							
	WLAN		0.462		5mm	-59.00	53.00	-207.00				
Case 47	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	133.8	2.74	0.03	Not required
	AG0-Ant2		1.086	1.548	5mm	14.20	66.20	-207.00				
	WLAN		0.462		5mm							
Case 47	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.74	0.04	Not required
	AG0-Ant2		1.086	1.548	5mm							
	WLAN		0.462		5mm	-59.00	53.00	-207.00				
Case 48	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	124.3	2.45	0.03	Not required
	AG0-Ant5		0.798	1.260	5mm	-55.40	58.80	-207.00				
	WLAN		0.462		5mm							
Case 48	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.45	0.03	Not required
	AG0-Ant5		0.798	1.260	5mm							
	WLAN		0.462		5mm	-59.00	53.00	-207.00				
Case 49	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	128.7	2.74	0.04	Not required
	AG0-Ant6		1.083	1.545	5mm	7.00	63.00	-207.00				
	WLAN		0.462		5mm							
Case 49	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.74	0.04	Not required
	AG0-Ant6		1.083	1.545	5mm							
	WLAN		0.462		5mm	-59.00	53.00	-207.00				
Case 50	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	131.3	2.75	0.03	Not required
	AG0-Ant8		1.095	1.557	5mm	-23.00	69.60	-207.00				
	WLAN		0.462		5mm							
Case 50	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.75	0.04	Not required
	AG0-Ant8		1.095	1.557	5mm							
	WLAN		0.462		5mm	-59.00	53.00	-207.00				
Case 51	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	105.4	2.45	0.04	Not required



	AG0-Ant9	Back	0.795	1.257	5mm	-55.40	39.20	-207.00	119.6	2.45	0.03	Not required
	WLAN		0.462		5mm							
	AG1-Ant0		1.192	1.192	5mm	-25.00	-61.70	-207.00				
	AG0-Ant9		0.795	1.257	5mm							
	WLAN		0.462		5mm	-59.00	53.00	-207.00				
Case 52	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	99.1	2.46	0.04	Not required
	AG0-Ant10		0.806	1.268	5mm	-11.00	36.40	-207.00				
	WLAN		0.462		5mm							
	AG1-Ant0	Back	1.192	1.192	5mm	-25.00	-61.70	-207.00	119.6	2.46	0.03	Not required
	AG0-Ant10		0.806	5mm								
WLAN	0.462	5mm	-59.00	53.00	-207.00							
Case 53	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	133.8	2.71	0.03	Not required
	AG0-Ant1		1.099	1.561	5mm	-5.00	70.80	-203.00				
	WLAN		0.462		5mm							
	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.71	0.03	Not required
	AG0-Ant1		1.099	5mm								
WLAN	0.462	5mm	-59.00	53.00	-207.00							
Case 54	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	128.5	2.69	0.03	Not required
	AG0-Ant2		1.086	1.548	5mm	14.20	66.20	-207.00				
	WLAN		0.462		5mm							
	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.69	0.03	Not required
	AG0-Ant2		1.086	5mm								
WLAN	0.462	5mm	-59.00	53.00	-207.00							
Case 55	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	137.3	2.41	0.03	Not required
	AG0-Ant5		0.798	1.260	5mm	-55.40	58.80	-207.00				
	WLAN		0.462		5mm							
	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.41	0.03	Not required
	AG0-Ant5		0.798	5mm								
WLAN	0.462	5mm	-59.00	53.00	-207.00							
Case 56	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	125.2	2.69	0.04	Not required
	AG0-Ant6		1.083	1.545	5mm	7.00	63.00	-207.00				
	WLAN		0.462		5mm							
	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.69	0.03	Not required
	AG0-Ant6		1.083	5mm								
WLAN	0.462	5mm	-59.00	53.00	-207.00							
Case 57	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	135.7	2.70	0.03	Not required
	AG0-Ant8		1.095	1.557	5mm	-23.00	69.60	-207.00				
	WLAN		0.462		5mm							
	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.70	0.03	Not required
	AG0-Ant8		1.095	5mm								
WLAN	0.462	5mm	-59.00	53.00	-207.00							
Case 58	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	120.3	2.40	0.03	Not required
	AG0-Ant9		0.795	1.257	5mm	-55.40	39.20	-207.00				
	WLAN		0.462		5mm							
	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.40	0.03	Not required
	AG0-Ant9		0.795	5mm								
WLAN	0.462	5mm	-59.00	53.00	-207.00							
Case 59	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	100.7	2.41	0.04	Not required
	AG0-Ant10		0.806	1.268	5mm	-11.00	36.40	-207.00				
	WLAN		0.462		5mm							
	AG1-Ant7	Back	1.145	1.145	5mm	9.40	-62.20	-207.00	134.0	2.41	0.03	Not required
	AG0-Ant10		0.806	5mm								
WLAN	0.462	5mm	-59.00	53.00	-207.00							

<Body-worn sensor off>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 60	AG1-Ant0	Back	0.716	0.716	21mm	-25.00	-77.20	-203.10	148.7	1.72	0.02	Not required
	AG0-Ant2		0.679	1.007	21mm	14.20	66.20	-207.00				
	WLAN		0.328		21mm							
	AG1-Ant0	Back	0.716	0.716	21mm	-25.00	-77.20	-203.10	134.6	1.72	0.02	Not required
	AG0-Ant2		0.679	1.007	21mm							
	WLAN		0.328		21mm	-59.00	53.00	-203.00				



<Extremity>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 23	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	146.5	4.98	0.08	Not required
	AG0-Ant1		1.690		0mm	-10.00	76.40	-207.00				
	WLAN		0.492	2.203	0mm							
	NFC		0.021		0mm							
	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	145.9	4.98	0.08	Not required
	AG0-Ant1		1.690		0mm							
	WLAN		0.492	2.203	0mm	-65.00	62.50	-203.00				
	NFC		0.021		0mm							
	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	119.4	4.98	0.09	Not required
	AG0-Ant1		1.690		0mm							
	WLAN		0.492	2.203	0mm							
	NFC		0.021		0mm	15.00	44.00	-177.00				
Case 24	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	130.9	4.29	0.07	Not required
	AG0-Ant2		0.991		0mm	15.00	59.40	-202.90				
	WLAN		0.492	1.504	0mm							
	NFC		0.021		0mm							
	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	145.9	4.29	0.06	Not required
	AG0-Ant2		0.991		0mm							
	WLAN		0.492	1.504	0mm	-65.00	62.50	-203.00				
	NFC		0.021		0mm							
	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	119.4	4.29	0.07	Not required
	AG0-Ant2		0.991		0mm							
	WLAN		0.492	1.504	0mm							
	NFC		0.021		0mm	15.00	44.00	-177.00				
Case 25	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	143.9	4.61	0.07	Not required
	AG0-Ant5		1.317		0mm	-55.00	64.50	-202.90				
	WLAN		0.492	1.830	0mm							
	NFC		0.021		0mm							
	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	145.9	4.61	0.07	Not required
	AG0-Ant5		1.317		0mm							
	WLAN		0.492	1.830	0mm	-65.00	62.50	-203.00				
	NFC		0.021		0mm							
	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	119.4	4.61	0.08	Not required
	AG0-Ant5		1.317		0mm							
	WLAN		0.492	1.830	0mm							
	NFC		0.021		0mm	15.00	44.00	-177.00				
Case 26	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	131.7	4.97	0.08	Not required
	AG0-Ant6		1.680		0mm	5.00	61.30	-202.90				
	WLAN		0.492	2.193	0mm							
	NFC		0.021		0mm							
	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	145.9	4.97	0.08	Not required
	AG0-Ant6		1.680		0mm							
	WLAN		0.492	2.193	0mm	-65.00	62.50	-203.00				
	NFC		0.021		0mm							
	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	119.4	4.97	0.09	Not required
	AG0-Ant6		1.680		0mm							
	WLAN		0.492	2.193	0mm							
	NFC		0.021		0mm	15.00	44.00	-177.00				
Case 27	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	138.6	5.21	0.09	Not required
	AG0-Ant8		1.916		0mm	-25.00	66.90	-203.00				
	WLAN		0.492	2.429	0mm							
	NFC		0.021		0mm							
	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	145.9	5.21	0.08	Not required



	AG0-Ant8		1.916	2.429	0mm													
	WLAN		0.492		0mm	-65.00	62.50	-203.00										
	NFC		0.021		0mm													
	AG1-Ant0	Back	2.781	2.781	0mm	-4.00	-70.00	-207.00	119.4	5.21	0.10	Not required						
	AG0-Ant8		1.916		0mm													
	WLAN		0.492		2.429	0mm												
	NFC		0.021		0mm	15.00	44.00	-177.00										
	AG1-Ant0		Back		2.781	2.781	0mm	-4.00					-70.00	-207.00	109.8	4.28	0.08	Not required
	AG0-Ant10				0.990		0mm	-15.00					39.20	-203.00				
WLAN	0.492	1.503		0mm														
	NFC		0.021		0mm													
	AG1-Ant0		Back		2.781	2.781	0mm	-4.00					-70.00	-207.00	145.9	4.28	0.06	Not required
	AG0-Ant10				0.990		0mm											
WLAN	0.492	1.503		0mm	-65.00		62.50	-203.00										
	NFC		0.021		0mm													
	AG1-Ant0		Back		2.781	2.781	0mm	-4.00					-70.00	-207.00	119.4	4.28	0.07	Not required
	AG0-Ant10				0.990		0mm											
WLAN	0.492	1.503		0mm														
	NFC		0.021		0mm	15.00	44.00	-177.00										
	AG1-Ant7		Back		2.022	2.022	0mm	2.20					-73.40	-206.00	113.9	4.23	0.08	Not required
	AG0-Ant1				1.690		0mm	-15.00					39.20	-203.00				
WLAN	0.492	2.203		0mm														
	NFC		0.021		0mm													
	AG1-Ant7		Back		2.022	2.022	0mm	2.20					-73.40	-206.00	151.6	4.23	0.06	Not required
	AG0-Ant1				1.690		0mm											
WLAN	0.492	2.203		0mm	-65.00		62.50	-203.00										
	NFC		0.021		0mm													
	AG1-Ant7		Back		2.022	2.022	0mm	2.20					-73.40	-206.00	121.6	4.23	0.07	Not required
	AG0-Ant1				1.690		0mm											
WLAN	0.492	2.203		0mm														
	NFC		0.021		0mm	15.00	44.00	-177.00										
	AG1-Ant7		Back		2.022	2.022	0mm	2.20					-73.40	-206.00	134.8	4.22	0.06	Not required
	AG0-Ant6				1.680		0mm	5.00					61.30	-202.90				
WLAN	0.492	2.193		0mm														
	NFC		0.021		0mm													
	AG1-Ant7		Back		2.022	2.022	0mm	2.20					-73.40	-206.00	151.6	4.22	0.06	Not required
	AG0-Ant6				1.680		0mm											
WLAN	0.492	2.193		0mm	-65.00		62.50	-203.00										
	NFC		0.021		0mm													
	AG1-Ant7		Back		2.022	2.022	0mm	2.20					-73.40	-206.00	121.6	4.22	0.07	Not required
	AG0-Ant6				1.680		0mm											
WLAN	0.492	2.193		0mm														
	NFC		0.021		0mm	15.00	44.00	-177.00										
	AG1-Ant7		Back		2.022	2.022	0mm	2.20					-73.40	-206.00	142.9	4.45	0.07	Not required
	AG0-Ant8				1.916		0mm	-25.00					66.90	-203.00				
WLAN	0.492	2.429		0mm														
	NFC		0.021		0mm													
	AG1-Ant7		Back		2.022	2.022	0mm	2.20					-73.40	-206.00	151.6	4.45	0.06	Not required
	AG0-Ant8				1.916		0mm											
WLAN	0.492	2.429		0mm	-65.00		62.50	-203.00										
	NFC		0.021		0mm													
	AG1-Ant7		Back		2.022	2.022	0mm	2.20					-73.40	-206.00	121.6	4.45	0.08	Not required
	AG0-Ant8				1.916		0mm											
WLAN	0.492	2.429		0mm														
	NFC		0.021		0mm	15.00	44.00	-177.00										



### 17.8 Maximum Report SAR And SAR Peak Locations

**General Note:**

1. The maximum report SAR and SAR Peak Locations corresponding to each position of each frequency band of each antenna in the below tables are as follows.
2. The unit of SAR evaluation is W/kg. The unit of x, y, z with Axis evaluation is mm.
3. WWAN antenna always chose the worst Axis among each frequency range (750MHz/835MHz/1750MHz/1900MHz/2300MHz/2450MHz/2600MHz/3500MHz/3700MHz/3900MHz/5250/5600/5750MHz) within the selected antenna for each exposure position.

<Head>

Left Cheek												
Freq.	Support,Band		Ant0	Ant7	Ant1	Ant2	Ant3	Ant5	Ant6	Ant8	Ant9	Ant10
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR	NA		NA							
		Axis(X,Y,Z)	NA		NA							
835MHz	GSM850,3TX WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR	NA		NA							
		Axis(X,Y,Z)	NA		NA							
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n70/66	Max,SAR	NA		NA							
		Axis(X,Y,Z)	NA		NA							
1900MHz	GSM1900,3TX WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	NA		NA							
		Axis(X,Y,Z)	NA		NA							
2300MHz	LTE,Band,30 FR1,n30	Max,SAR		0.209	NA							
		Axis(X,Y,Z)		X:56 Y:257.5 Z:-169.3	NA							
2450MHz	2.4GWLAN	Max,SAR					0.482(WLAN2.4GHz)					
		Axis(X,Y,Z)					X:216 Y:335 Z:-174					
2450MHz	Bluetooth	Max,SAR					0.108(WLAN2.4GHz)					
		Axis(X,Y,Z)					X:19.1 Y:334 Z:-173					
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR		0.535	NA					NA		NA
		Axis(X,Y,Z)		X:59.2 Y:256 Z:-174	NA					NA		NA
3500/3700/3900MHz	LTE,Band,48 FR1,n48/77/78	Max,SAR				NA		0.693(FR1 n77_HPUE)		NA		NA
		Axis(X,Y,Z)				NA		X:43.9 Y:331 Z:-174		NA		NA
5250/5600/5750MHz	5GWLAN	Max,SAR						0.392 (WLAN5GHz)				
		Axis(X,Y,Z)						X:24.5 Y:333 Z:-174				

<Hotspot>

Front												
Freq.	Support,Band		Ant0	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	Ant10
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR	0.485	0.517								
		Axis(X,Y,Z)	X:-25 Y:-80.9 Z:-203.1	X:-40 Y:74 Z:-203								
835MHz	GSM850,3TX WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR	0.690	0.746								
		Axis(X,Y,Z)	X:-25 Y:-80.4 Z:-203.1	X:-40 Y:73.4 Z:-203								
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n70/66	Max,SAR	0.751	0.593								
		Axis(X,Y,Z)	X:-25 Y:-92.6 Z:-203.1	X:-40 Y:84 Z:-203								
1900MHz	GSM1900,3TX WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	0.651	0.480								
		Axis(X,Y,Z)	X:-10 Y:-82.1 Z:-203.1	X:-40 Y:87.5 Z:-203								
2300MHz	LTE,Band,30 FR1,n30	Max,SAR		0.380				NA	1.125		0.323	
		Axis(X,Y,Z)		X:-35 Y:87.5 Z:-203				NA	X:-55 Y:-69.6 Z:-203.1		X:13.2 Y:37.7 Z:-203.1	
2450MHz	2.4GWLAN	Max,SAR				0.177						
		Axis(X,Y,Z)				X:5 Y:65.7 Z:-203.1						
2450MHz	Bluetooth	Max,SAR				0.026						
		Axis(X,Y,Z)				X:19.4 Y:77 Z:-207						
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR		0.357				NA	0.924		0.376	
		Axis(X,Y,Z)		X:-45 Y:86.8 Z:-203.1				NA	X:-55 Y:-71.7 Z:-203.1		X:15 Y:37.5 Z:-203.1	
3500/3700/3900MHz	LTE,Band,48 FR1,n48/77/78	Max,SAR			0.541(FR1 n48)		0.479			NA		
		Axis(X,Y,Z)			X:-75 Y:65.6 Z:-203.1		X:-5 Y:71.3 Z:-203.1			NA		



5250/5600/5 750MHz	5GWLAN	Max,S AR						0.194				
		Axis(X, Y,Z)						X:5 Y:72.7 Z:-203				
Back												
Freq.	Support,Band		Ant0	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	Ant10
750MHz	LTE,Band,12/13 /14/17/71 FR1,n12/13/14/ 71	Max,S AR	0.818	1.091								
		Axis(X, Y,Z)	X:-10 Y:-66.3 Z:-203.1	X:-10 Y:73.3 Z:-203								
835MHz	GSM850,3TX WCDMA,V	Max,S AR	1.009	1.020								
	LTE,Band,5/26 FR1,n5/26	Axis(X, Y,Z)	X:-25 Y:-61.7 Z:-207	X:-10 Y:71.9 Z:-203								
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n70/66	Max,S AR	1.192	1.099								
		Axis(X, Y,Z)	X:-15.5 Y:-82.5 Z:-207	X:-25 Y:82 Z:-206								
1900MHz	GSM1900,3TX WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,S AR	1.187	1.044								
		Axis(X, Y,Z)	X:-25 Y:-77.2 Z:-203.1	X:-10 Y:76 Z:-203								
2300MHz	LTE,Band,30 FR1,n30	Max,S AR		1.069				0.915	1.145		0.672	
		Axis(X, Y,Z)		X:-5 Y:70.8 Z:-203				X:5 Y:64 Z:-203.1	X:9.4 Y:-62.2 Z:-207		X:-48.1 Y:40 Z:-207	
2450MHz	2.4GWLAN Bluetooth	Max,S AR				0.437						
		Axis(X, Y,Z)				X:-55.4 Y:68.2 Z:-207						
2450MHz	2.4GWLAN Bluetooth	Max,S AR				0.087						
		Axis(X, Y,Z)				X:-58.6 Y:72 Z:-207						
2600MHz	LTE,Band,7/38/ 41 FR1,n7/38/41	Max,S AR		1.064				1.083	1.118		0.795	
		Axis(X, Y,Z)		X:-5 Y:71.7 Z:-203				X:7 Y:63 Z:-207	X:-5 Y:-71.1 Z:-203.1		X:-55.4 Y:39.2 Z:-207	
3500/3700/3 900MHz	LTE,Band,48 FR1,n48/77/78	Max,S AR			1.086		0.798			1.095		0.806
		Axis(X, Y,Z)			X:14.2 Y:66.2 Z:-207		X:-55.4 Y:58.8 Z:-207			X:-23 Y:69.6 Z:-207		X:-15 Y:42.6 Z:-203.1
5250/5600/5 750MHz	5GWLAN	Max,S AR					0.271					
		Axis(X, Y,Z)					X:-59 Y:53 Z:-207					
Left Side												
Freq.	Support,Band		Ant0	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	Ant10
750MHz	LTE,Band,12/13 /14/17/71 FR1,n12/13/14/ 71	Max,S AR	NA	NA								
		Axis(X, Y,Z)	NA	NA								
835MHz	GSM850,3TX WCDMA,V	Max,S AR	NA	NA								
	LTE,Band,5/26 FR1,n5/26	Axis(X, Y,Z)	NA	NA								
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n70/66	Max,S AR	NA	NA								
		Axis(X, Y,Z)	NA	NA								
1900MHz	GSM1900,3TX WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,S AR	NA	NA								
		Axis(X, Y,Z)	NA	NA								
2300MHz	LTE,Band,30 FR1,n30	Max,S AR		NA				NA	0.888(LTE Band 30)		NA	
		Axis(X, Y,Z)		NA				NA	X:-25 Y:-57.2 Z:-203.1		NA	
2450MHz	2.4GWLAN	Max,S AR				NA						
		Axis(X, Y,Z)				NA						
2450MHz	Bluetooth	Max,S AR				NA						
		Axis(X, Y,Z)				NA						
2600MHz	LTE,Band,7/38/ 41 FR1,n7/38/41	Max,S AR		NA				NA	0.732		NA	
		Axis(X, Y,Z)		NA				NA	X:-20.2,Y:-64. 8,Z:-207		NA	
3500/3700/3 900MHz	LTE,Band,48 FR1,n48/77/78	Max,S AR			0.953		NA			NA		NA
		Axis(X, Y,Z)			X:-28.6 Y:57.6 Z:-207		NA			NA		NA
5250/5600/5 750MHz	5GWLAN	Max,S AR					NA					
		Axis(X, Y,Z)					NA					



<Body-worn>

Front												
Freq.	Support,Band		Ant0	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	Ant10
750MHz	LTE,Band,12/13/14/17/71	Max,SAR	0.485	0.517								
		Axis(X,Y,Z)	X:-25 Y:-80.9 Z:-203.1	X:-40 Y:74 Z:-203								
835MHz	GSM850,3TX WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR	0.690	0.746								
		Axis	X:-25 Y:-80.4 Z:-203.1	X:-40 Y:73.4 Z:-203								
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n70/66	Max,SAR	0.751	0.593								
		Axis	X:-25 Y:-92.6 Z:-203.1	X:-40 Y:84 Z:-203								
1900MHz	GSM1900,3TX WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	0.608	0.480								
		Axis	X:-10 Y:-82.1 Z:-203.1	X:-40 Y:87.5 Z:-203								
2300MHz	LTE,Band,30 FR1,n30	Max,SAR		0.380				0.021	1.125 (LTE Band 30)		0.323	
		Axis		X:-35 Y:87.5 Z:-203				X:-60.5 Y:67.2 Z:-203.1	X:-55 Y:-69.6 Z:-203.1		X:13.2 Y:37.7 Z:-203.1	
2450MHz	2.4GWLAN	Max,SAR				0.437(WLAN 2.4GHz)						
		Axis				X:5 Y:65.7 Z:-203.1						
2450MHz	Bluetooth	Max,SAR				0.087(Blueto oth)						
		Axis				X:19.4 Y:77 Z:-207						
2600MHz	LTE,Band,7/38 /41 FR1,n7/38/41	Max,SAR		0.357				0.067	3.715 (FR1 n41 HPUE)		0.376	
		Axis		X:-45 Y:86.8 Z:-203.1				X:-65 Y:65.5 Z:-203.1	X:-55 Y:-71.7 Z:-203.1		X:15 Y:37.5 Z:-203.1	
3500/3700/3 900MHz	LTE,Band,48 FR1,n48/77/78	Max,SAR			0.541(FR1 n48)		0.479 (LTE Band 48)			0.98 (FR1 n77)		0.29(FR1 n77 HPUE)
		Axis			X:-75 Y:65.6 Z:-203.1		X:-5 Y:71.3 Z:-203.1			X:-25 Y:84.1 Z:-203.1		X:45 Y:47.5 Z:-203.1
5250/5600/5 750MHz	5GWLAN	Max,SAR					1.614 (WLAN5GHz)					
		Axis					X:5 Y:72.7 Z:-203					
Back												
Freq.	Support,Band		Ant0	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	Ant10
750MHz	LTE,Band,12/13/14/17/71	Max,SAR	0.818	1.091								
		Axis(X,Y,Z)	X:-10 Y:-66.3 Z:-203.1	X:-10 Y:73.3 Z:-203								
835MHz	GSM850,3TX WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR	1.009	1.020								
		Axis	X:-25 Y:-61.7 Z:-207	X:-10 Y:71.9 Z:-203								
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n70/66	Max,SAR	1.192	1.099								
		Axis	X:-15.5 Y:-82.5 Z:-207	X:-25 Y:82 Z:-206								
1900MHz	GSM1900,3TX WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	1.187	1.044								
		Axis	X:-25 Y:-77.2 Z:-203.1	X:-10 Y:76 Z:-203								
2300MHz	LTE,Band,30 FR1,n30	Max,SAR		1.069				0.915	1.145		0.672	
		Axis		X:-5 Y:70.8 Z:-203				X:5 Y:64 Z:-203.1	X:9.4 Y:-62.2 Z:-207		X:-48.1 Y:40 Z:-207	
2450MHz	2.4GWLAN	Max,SAR				0.437						
		Axis				X:-55.4 Y:68.2 Z:-207						
2450MHz	Bluetooth	Max,SAR				0.087						
		Axis				X:-58.6 Y:72 Z:-207						
2600MHz	LTE,Band,7/38 /41 FR1,n7/38/41	Max,SAR		1.064				1.083	1.118		0.795	
		Axis		X:-5 Y:71.7 Z:-203				X:7 Y:63 Z:-207	X:-5 Y:-71.1 Z:-203.1		X:-55.4 Y:39.2 Z:-207	
3500/3700/3 900MHz	LTE,Band,48 FR1,n48/77/78	Max,SAR			1.086		0.798			1.095		0.806
		Axis			X:14.2 Y:66.2 Z:-207		X:-55.4 Y:58.8 Z:-207			X:-23 Y:69.6 Z:-207		X:-15 Y:42.6 Z:-203.1
5250/5600/5 750MHz	5GWLAN	Max,SAR					0.271					
		Axis					X:-59 Y:53 Z:-207					





<Body-worn sensor off>

Back												
Freq.	Support,Band		Ant0	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	Ant10
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR	NA	NA								
		Axis(X,Y,Z)	NA	NA								
835MHz	GSM850,3TX WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR	NA	NA								
		Axis	NA	NA								
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n70/66	Max,SAR	0.716	NA								
		Axis	X:-15.5 Y:-82.5 Z:-207	NA								
1900MHz	GSM1900,3TX WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	0.517	NA								
		Axis	X:-25 Y:-77.2 Z:-203.1	NA								
2300MHz	LTE,Band,30 FR1,n30	Max,SAR		NA					NA	NA		NA
		Axis		NA					NA	NA		NA
2450MHz	2.4GWLAN	Max,SAR				0.184						
		Axis				X:-55.4 Y:68.2 Z:-207						
2450MHz	Bluetooth	Max,SAR				0.008						
		Axis				X:-58.6 Y:72 Z:-207						
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR		NA					NA	NA		NA
		Axis		NA					NA	NA		NA
3500/3700/3900MHz	LTE,Band,48 FR1,n48/77/78	Max,SAR			0.679		NA				NA	NA
		Axis			X:14.2 Y:66.2 Z:-207		NA				NA	NA
5250/5600/5750MHz	5GWLAN	Max,SAR					0.320					
		Axis					X:-59 Y:53 Z:-207					



<Extremity>

Front												
Freq.	Support,Band		Ant0	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	Ant10
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR										
		Axis(X,Y,Z)										
835MHz	GSM850,3TX WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR										
		Axis(X,Y,Z)										
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n70/66	Max,SAR	2.159(FR1 n70)	0.861(WCDMA IV)								
		Axis(X,Y,Z)	X:-25 Y:-87.8 Z:-202.9	X:-40 Y:84.1 Z:-202.7								
1900MHz	GSM1900,3TX WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	1.703	0.504								
		Axis(X,Y,Z)	X:-25 Y:-88 Z:-202.9	X:-40 Y:84.3 Z:-202.7								
2300MHz	LTE,Band,30 FR1,n30	Max,SAR								NA		
		Axis(X,Y,Z)								NA		
2450MHz	2.4GWLAN Bluetooth	Max,SAR										
		Axis(X,Y,Z)										
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR								NA		NA
		Axis(X,Y,Z)								NA		NA
3500/3700/3900MHz	LTE,Band,48 FR1,n48/77/78	Max,SAR			NA							
		Axis(X,Y,Z)			NA							
5250/5600/5750MHz	5GWLAN	Max,SAR					0.991(WLAN5GHz)					
		Axis(X,Y,Z)					X:-5 Y:79.8 Z:-202.9					

Back												
Freq.	Support,Band		Ant0	Ant1	Ant2	Ant3	Ant5	Ant6	Ant7	Ant8	Ant9	Ant10
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR										
		Axis(X,Y,Z)										
835MHz	GSM850,3TX WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR										
		Axis(X,Y,Z)										
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n70/66	Max,SAR	2.781	1.421								
		Axis(X,Y,Z)	X:-4 Y:-70 Z:-207	X:-10 Y:78.2 Z:-202.7								
1900MHz	GSM1900,3TX WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	1.590	1.01								
		Axis(X,Y,Z)	X:-10 Y:-70.5 Z:-206.8	X:-10 Y:76.4 Z:-207								
2300MHz	LTE,Band,30 FR1,n30	Max,SAR		1.316				1.638	NA			
		Axis(X,Y,Z)		X:-15 Y:76.5 Z:-202.7				X:6.1 Y:62.4 Z:-203.3	X:-5 Y:-74.1 Z:-202.8			
2450MHz	2.4GWLAN Bluetooth	Max,SAR				1.038						
		Axis(X,Y,Z)				X:-65 Y:75.9 Z:-203						
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR		1.690				1.680	2.022		0.609	
		Axis(X,Y,Z)		X:-0.2 Y:78 Z:-207				X:5 Y:61.3 Z:-202.9	X:-2.2 Y:-73.4 Z:-206		X:-65 Y:47.2 Z:-202.8	
3500/3700/3900MHz	LTE,Band,48 FR1,n48/77/78	Max,SAR			0.991		1.317			1.916		1.050
		Axis(X,Y,Z)			X:15 Y:59.4 Z:-202.9		X:-55 Y:64.5 Z:-202.9			X:-25 Y:66.9 Z:-203.0		X:-15 Y:39.2 Z:-203.0
5250/5600/5750MHz	5GWLAN	Max,SAR					0.991					
		Axis(X,Y,Z)					X:-65 Y:62.5 Z:-203					

Back			
Freq.	Support,Band	Max,SAR	NFC Antenna
13.56MHz	NFC	Max,SAR	0.021
		Axis(X,Y,Z)	X:15 Y:44 Z:-177

## **18. Supplemental tuner tests results**

### **General Note:**

1. This device implements impedance tuner (233 states) antenna tuning techniques in the WCDMA II/IV/V, LTE Band 2/4/5/12/13/14/17/25/26/66/71, and 5G NR n2/n5/n12/n13/n14/n25/n26/n66/n70/n71 for ANT0.
2. LTE B17 / B5 / B4 / B2 SAR test was covered by LTE B12 / B26 / B66 / B25; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
3. 5G NR n26 / n25 SAR test was covered by 5G NR n5 / n2; according to April 2015 TCB workshop, SAR test for overlapping NR bands can be reduced.
4. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
5. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
6. To evaluate all of the tuner states, the 233 tuner states for ANT0 is divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
7. According to April 2019 TCB workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
8. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).
9. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

### **18.1 Supplemental Tuner Head & Body SAR Results**

Please refer to Appendix F.

**Test Engineer** : Hank Huang, Kevin Xu, David Dai, Bin He



## **19. Uncertainty Assessment**

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

## **20. References**

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

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