



FCC SAR Test Report

Report No. : FA591906

	FR1 n66	40M	BPSK	108	54	Front	0mm	Ant 2	DSi6	349000	1745		22.75	24.00	1.334			0.07	1.920	2.561
	FR1 n66	40M	BPSK	216	0	Front	0mm	Ant 2	DSi6	349000	1745		22.30	23.50	1.318			-0.12	1.800	2.372
	FR1 n66	40M	BPSK	1	1	Back	0mm	Ant 2	DSi6	349000	1745		22.95	24.00	1.274			-0.16	1.910	2.433
	FR1 n66	40M	BPSK	108	54	Back	0mm	Ant 2	DSi6	349000	1745		22.75	24.00	1.334			-0.07	1.680	2.241
	FR1 n66	40M	BPSK	216	0	Back	0mm	Ant 2	DSi6	349000	1745		22.30	23.50	1.318			-0.11	1.630	2.148
	FR1 n66	40M	BPSK	1	1	Bottom Side	0mm	Ant 2	DSi6	349000	1745		22.95	24.00	1.274			0.00	1.690	2.153
	FR1 n66	40M	BPSK	108	54	Bottom Side	0mm	Ant 2	DSi6	349000	1745		22.75	24.00	1.334			-0.03	1.360	1.814
	FR1 n66	40M	BPSK	216	0	Bottom Side	0mm	Ant 2	DSi6	349000	1745		22.30	23.50	1.318			-0.06	1.280	1.687
	FR1 n70	15M	BPSK	1	1	Front	0mm	Ant 1	DSi6	340500	1702.5	1	20.20	21.40	1.318			0.10	1.650	2.175
	FR1 n70	15M	BPSK	36	22	Front	0mm	Ant 1	DSi6	340500	1702.5	1	20.18	21.40	1.324			-0.06	1.740	2.304
	FR1 n70	15M	BPSK	75	0	Front	0mm	Ant 1	DSi6	340500	1702.5	1	20.09	21.40	1.352			-0.16	1.520	2.055
	FR1 n70	15M	BPSK	1	1	Front	6mm	Ant 1	DSi4	340500	1702.5	1	22.23	24.00	1.503			0.04	0.823	1.237
	FR1 n70	15M	BPSK	1	1	Back	0mm	Ant 1	DSi6	340500	1702.5	1	20.20	21.40	1.318			0.10	2.340	3.084
99	FR1 n70	15M	BPSK	36	22	Back	0mm	Ant 1	DSi6	340500	1702.5	1	20.18	21.40	1.324			-0.09	2.420	3.204
	FR1 n70	15M	BPSK	75	0	Back	0mm	Ant 1	DSi6	340500	1702.5	1	20.09	21.40	1.352			-0.15	2.120	2.866
	FR1 n70	15M	BPSK	1	1	Back	8mm	Ant 1	DSi4	340500	1702.5	1	22.23	24.00	1.503			0.05	0.956	1.437
	FR1 n70	15M	BPSK	1	1	Left Side	0mm	Ant 1	DSi6	340500	1702.5	1	20.20	21.40	1.318			-0.02	1.610	2.122
	FR1 n70	15M	BPSK	36	22	Left Side	0mm	Ant 1	DSi6	340500	1702.5	1	20.18	21.40	1.324			0.01	1.640	2.171
	FR1 n70	15M	BPSK	75	0	Left Side	0mm	Ant 1	DSi6	340500	1702.5	1	20.09	21.40	1.352			0.02	1.420	1.920
	FR1 n70	15M	BPSK	1	1	Left Side	10mm	Ant 1	DSi4	340500	1702.5	1	22.23	24.00	1.503			0.03	0.561	0.843
	FR1 n70	15M	BPSK	1	1	Top Side	0mm	Ant 1	DSi6	340500	1702.5	1	20.20	21.40	1.318			-0.07	2.050	2.702
	FR1 n70	15M	BPSK	36	22	Top Side	0mm	Ant 1	DSi6	340500	1702.5	1	20.18	21.40	1.324			0.09	2.210	2.926
	FR1 n70	15M	BPSK	75	0	Top Side	0mm	Ant 1	DSi6	340500	1702.5	1	20.09	21.40	1.352			-0.15	1.850	2.501
	FR1 n70	15M	BPSK	1	1	Top Side	7mm	Ant 1	DSi4	340500	1702.5	1	22.23	24.00	1.503			-0.06	0.738	1.109
	FR1 n70	15M	BPSK	36	22	Back	0mm	Ant 1	DSi6	340500	1702.5	2	20.18	21.40	1.324			0.06	2.010	2.661
	FR1 n70	15M	BPSK	36	22	Back	0mm	Ant 1	DSi6	340500	1702.5	Cover	20.18	21.40	1.324			0.02	2.260	2.992
	FR1 n70	15M	BPSK	1	1	Front	0mm	Ant 2	DSi6	340500	1702.5	1	22.95	24.00	1.274			-0.03	1.710	2.179
	FR1 n70	15M	BPSK	36	22	Front	0mm	Ant 2	DSi6	340500	1702.5	1	22.85	24.00	1.303			0.06	1.750	2.280
	FR1 n70	15M	BPSK	75	0	Front	0mm	Ant 2	DSi6	340500	1702.5	1	22.30	23.50	1.318			-0.19	1.560	2.056
	FR1 n70	15M	BPSK	1	1	Back	0mm	Ant 2	DSi6	340500	1702.5	1	22.95	24.00	1.274			0.04	1.580	2.013
	FR1 n70	15M	BPSK	36	22	Back	0mm	Ant 2	DSi6	340500	1702.5	1	22.85	24.00	1.303			-0.09	1.720	2.241
	FR1 n70	15M	BPSK	75	0	Back	0mm	Ant 2	DSi6	340500	1702.5	1	22.30	23.50	1.318			0.10	1.460	1.924
	FR1 n70	15M	BPSK	1	1	Bottom Side	0mm	Ant 2	DSi6	340500	1702.5	1	22.95	24.00	1.274			-0.07	1.520	1.936
	FR1 n70	15M	BPSK	36	22	Bottom Side	0mm	Ant 2	DSi6	340500	1702.5	1	22.85	24.00	1.303			-0.01	1.670	2.176
	FR1 n70	15M	BPSK	75	0	Bottom Side	0mm	Ant 2	DSi6	340500	1702.5	1	22.30	23.50	1.318			0.11	1.420	1.872
	FR1 n41	100M	BPSK	1	1	Left Side	0mm	Ant 0	DSi6	518598	2592.99	1	22.34	23.00	1.164			-0.06	1.050	1.222
	FR1 n41	100M	BPSK	135	69	Left Side	0mm	Ant 0	DSi6	518598	2592.99	1	22.30	23.00	1.175			-0.18	1.080	1.269
	FR1 n41	100M	BPSK	135	69	Left Side	0mm	Ant 0	DSi6	518598	2592.99	2	22.30	23.00	1.175			0.03	0.856	1.006
	FR1 n41	100M	BPSK	135	69	Left Side	0mm	Ant 0	DSi6	518598	2592.99	Cover	22.30	23.00	1.175			0.05	0.984	1.156
	FR1 n41	100M	BPSK	1	1	Front	0mm	Ant 1	DSi6	518598	2592.99	1	20.40	21.60	1.318			-0.09	1.090	1.437
	FR1 n41	100M	BPSK	135	69	Front	0mm	Ant 1	DSi6	518598	2592.99	1	20.36	21.60	1.33			-0.15	1.260	1.676
	FR1 n41	100M	BPSK	1	1	Front	6mm	Ant 1	DSi4	518598	2592.99	1	22.36	24.00	1.459			0.04	0.457	0.667
	FR1 n41	100M	BPSK	1	1	Back	0mm	Ant 1	DSi6	518598	2592.99	1	20.40	21.60	1.318			-0.04	2.100	2.768
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 1	DSi6	518598	2592.99	1	20.36	21.60	1.33			-0.09	2.390	3.179
	FR1 n41	100M	BPSK	270	0	Back	0mm	Ant 1	DSi6	518598	2592.99	1	20.32	21.60	1.343			-0.15	2.170	2.914
	FR1 n41_HPUE	100M	BPSK	135	69	Back	0mm	Ant 1	DSi6	518598	2592.99	1	23.30	24.60	1.349	50.0	1.0	0.03	2.280	3.076
	FR1 n41	100M	BPSK	1	1	Back	8mm	Ant 1	DSi4	518598	2592.99	1	22.36	24.00	1.459			-0.01	0.549	0.801
	FR1 n41	100M	BPSK	1	1	Left Side	0mm	Ant 1	DSi6	518598	2592.99	1	20.40	21.60	1.318			-0.01	1.440	1.898
	FR1 n41	100M	BPSK	135	69	Left Side	0mm	Ant 1	DSi6	518598	2592.99	1	20.36	21.60	1.33			0.11	1.470	1.955
	FR1 n41	100M	BPSK	1	1	Left Side	10mm	Ant 1	DSi4	518598	2592.99	1	22.36	24.00	1.459			0.05	0.452	0.659
	FR1 n41	100M	BPSK	1	1	Top Side	0mm	Ant 1	DSi6	518598	2592.99	1	20.40	21.60	1.318			-0.11	0.904	1.191
	FR1 n41	100M	BPSK	135	69	Top Side	0mm	Ant 1	DSi6	518598	2592.99	1	20.36	21.60	1.33			-0.09	1.060	1.410
	FR1 n41	100M	BPSK	1	1	Top Side	7mm	Ant 1	DSi4	518598	2592.99	1	22.36	24.00	1.459			-0.03	0.381	0.556
	FR1 n41_HPUE	100M	BPSK	1	1	Back	8mm	Ant 1	DSi4	518598	2592.99	1	25.43	27.00	1.435	50.0	1.0	0.06	0.535	0.768
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 1	DSi6	518598	2592.99	2	20.36	21.60	1.33			0.03	2.110	2.806
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 1	DSi6	518598	2592.99	Cover	20.36	21.60	1.33			0.04	2.260	3.006
	FR1 n41	100M	BPSK	1	1	Front	0mm	Ant 2	DSi6	518598	2592.99	1	21.03	22.50	1.403			0.09	1.040	1.459
	FR1 n41	100M	BPSK	135	69	Front	0mm	Ant 2	DSi6	518598	2592.99	1	20.98	22.50	1.419			0.16	0.983	1.395
	FR1 n41	100M	BPSK	1	1	Front	9mm	Ant 2	DSi4	518598	2592.99	1	23.01	24.00	1.256			-0.01	0.222	0.279
	FR1 n41	100M	BPSK	1	1	Back	0mm	Ant 2	DSi6	518598	2592.99	1	21.03	22.50	1.403			0.18	1.430	2.006
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 2	DSi6	518598	2592.99	1	20.98	22.50	1.419			-0.15	1.300	1.845
	FR1 n41	100M	BPSK	270	0	Back	0mm	Ant 2	DSi6	518598	2592.99	1	20.90	22.50	1.445			0.18	1.270	1.835
	FR1 n41	100M	BPSK	1	1	Back	12mm	Ant 2	DSi4	518598	2592.99	1	23.01	24.00	1.256			0.06	0.218	0.274
	FR1 n41	100M	BPSK	1	1	Bottom Side	0mm	Ant 2	DSi6	518598	2592.99	1	21.03	22.50	1.403			0.04	2.210	3.101
	FR1 n41	100M	BPSK	135	69	Bottom Side	0mm	Ant 2	DSi6	518598	2592.99	1	20.98	22.50	1.419			0.16	1.750	2.483
	FR1 n41	100M	BPSK	270	0	Bottom Side	0mm	Ant 2	DSi6	518598	2592.99	1	20.90	22.50	1.445			0.10	1.590	2.298
100	FR1 n41_HPUE	100M	BPSK	1	1	Bottom Side	0mm	Ant 2	DSi6	518598	2592.99	1	24.01	25.50	1.409	50.0	1.0	-0.01	2.260	3.184
	FR1 n41_HPUE	100M	BPSK	1	1	Bottom Side	0mm	Ant 2	DSi6	518598	2592.99	2	24.01	25.50	1.409	50.0	1.0	-0.02	1.980	2.790
	FR1 n41_HPUE	100M	BPSK	1	1	Bottom Side	0mm	Ant 2	DSi6	518598	2592.99	Cover	24.01	25.50	1.409	50.0	1.0	0.01	2.180	3.072
	FR1 n41	100M	BPSK	1	1	Bottom Side	10mm	Ant 2	DSi4	518598	2592.99	1	23.01	24.00	1.256			0.06	0.416	0.522
	FR1 n41_HPUE	100M	BPSK	1	1	Bottom Side	10mm	Ant 2	DSi4	518598	2592.99	1	25.99	27.00	1.262	50.0	1.0	0.06	0.387	0.488
	FR1 n41																			



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	FR1 n41	100M	BPSK	1	1	Front	8mm	Ant 6	DSI4	518598	2592.99	1	22.43	23.00	1.14			0.03	0.412	0.470
	FR1 n41	100M	BPSK	1	1	Back	0mm	Ant 6	DSI6	518598	2592.99	1	19.98	20.70	1.18			0.12	0.693	0.818
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 6	DSI6	518598	2592.99	1	19.95	20.70	1.189			0.17	0.482	0.573
	FR1 n41	100M	BPSK	1	1	Back	2mm	Ant 6	DSI4	518598	2592.99	1	22.43	23.00	1.14			-0.05	0.688	0.784
	FR1 n41	100M	BPSK	1	1	Right Side	0mm	Ant 6	DSI6	518598	2592.99	1	19.98	20.70	1.18			-0.02	2.570	3.033
	FR1 n41_HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 6	DSI6	518598	2592.99	2	21.99	23.70	1.483	50.0	1.0	0.06	1.880	2.788
	FR1 n41_HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 6	DSI6	518598	2592.99	Cover	21.99	23.70	1.483	50.0	1.0	0.09	2.030	3.010
	FR1 n41	100M	BPSK	135	69	Right Side	0mm	Ant 6	DSI6	518598	2592.99	1	19.95	20.70	1.189			0.13	1.720	2.045
	FR1 n41	100M	BPSK	270	0	Right Side	0mm	Ant 6	DSI6	518598	2592.99	1	19.83	20.70	1.222			0.01	1.810	2.212
	FR1 n41_HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 6	DSI6	518598	2592.99	1	21.99	23.70	1.483	50.0	1.0	-0.02	2.120	3.144
	FR1 n41	100M	BPSK	1	1	Right Side	11mm	Ant 6	DSI4	518598	2592.99	1	22.43	23.00	1.14			0.03	0.509	0.580
	FR1 n41_HPUE	100M	BPSK	1	1	Back	2mm	Ant 6	DSI4	518598	2592.99	1	24.44	25.00	1.138	50.0	1.0	0.03	0.588	0.669
	FR1 n77	100M	BPSK	1	1	Front	0mm	Ant 7	DSI6	656000	3840	1	19.49	20.50	1.262			0.11	1.400	1.767
	FR1 n77	100M	BPSK	135	69	Front	0mm	Ant 7	DSI6	656000	3840	1	19.45	20.50	1.274			0.16	1.210	1.542
	FR1 n77	100M	BPSK	1	1	Front	6mm	Ant 7	DSI4	656000	3840	1	23.46	24.00	1.132			0.03	0.614	0.695
	FR1 n77	100M	BPSK	1	1	Back	0mm	Ant 7	DSI6	656000	3840	1	19.49	20.50	1.262			0.01	2.470	3.117
	FR1 n77_HPUE	100M	BPSK	1	1	Back	0mm	Ant 7	DSI6	656000	3840	2	22.53	23.50	1.25	50.0	1.0	0.01	2.020	2.525
	FR1 n77	100M	BPSK	135	69	Back	0mm	Ant 7	DSI6	656000	3840	1	19.45	20.50	1.274			-0.09	2.170	2.765
	FR1 n77	100M	BPSK	270	0	Back	0mm	Ant 7	DSI6	656000	3840	1	19.34	20.50	1.306			-0.14	2.180	2.847
101	FR1 n77_HPUE	100M	BPSK	1	1	Back	0mm	Ant 7	DSI6	656000	3840	1	22.53	23.50	1.25	50.0	1.0	-0.06	2.550	3.188
	FR1 n77	100M	BPSK	1	1	Back	8mm	Ant 7	DSI4	656000	3840	1	23.46	24.00	1.132			-0.01	0.512	0.580
	FR1 n77	100M	BPSK	1	1	Left Side	0mm	Ant 7	DSI6	656000	3840	1	19.49	20.50	1.262			0.03	1.950	2.461
	FR1 n77	100M	BPSK	135	69	Left Side	0mm	Ant 7	DSI6	656000	3840	1	19.45	20.50	1.274			0.07	1.760	2.242
	FR1 n77	100M	BPSK	270	0	Left Side	0mm	Ant 7	DSI6	656000	3840	1	19.34	20.50	1.306			-0.13	1.650	2.155
	FR1 n77	100M	BPSK	1	1	Left Side	10mm	Ant 7	DSI4	656000	3840	1	23.46	24.00	1.132			0.02	0.444	0.503
	FR1 n77_HPUE	100M	BPSK	1	1	Back	0mm	Ant 7	DSI6	656000	3840	Cover	22.53	23.50	1.25	50.0	1.0	-0.03	2.330	2.913
	FR1 n77_HPUE	100M	BPSK	1	1	Front	6mm	Ant 7	DSI4	656000	3840	1	26.50	27.00	1.122	50.0	1.0	0.06	0.604	0.678
	FR1 n77	100M	BPSK	1	1	Front	0mm	Ant 5	DSI6	656000	3840	1	21.89	22.90	1.262			-0.06	1.560	1.969
	FR1 n77	100M	BPSK	135	69	Front	0mm	Ant 5	DSI6	656000	3840	1	21.86	22.90	1.271			-0.04	1.470	1.868
	FR1 n77	100M	BPSK	1	1	Front	8mm	Ant 5	DSI4	656000	3840	1	22.85	24.00	1.303			-0.03	0.282	0.367
	FR1 n77	100M	BPSK	1	1	Back	0mm	Ant 5	DSI6	656000	3840	1	21.89	22.90	1.262			-0.17	0.273	0.345
	FR1 n77	100M	BPSK	135	69	Back	0mm	Ant 5	DSI6	656000	3840	1	21.86	22.90	1.271			0.04	0.405	0.515
	FR1 n77	100M	BPSK	1	1	Back	2mm	Ant 5	DSI4	656000	3840	1	22.85	24.00	1.303			0.04	0.475	0.619
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 5	DSI6	656000	3840	1	21.89	22.90	1.262			-0.13	2.500	3.155
	FR1 n77	100M	BPSK	135	69	Right Side	0mm	Ant 5	DSI6	656000	3840	1	21.86	22.90	1.271			0.04	2.270	2.885
	FR1 n77	100M	BPSK	270	0	Right Side	0mm	Ant 5	DSI6	656000	3840	1	21.79	22.90	1.291			0.02	2.350	3.034
	FR1 n77_HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 5	DSI6	656000	3840	1	24.92	25.90	1.253	50.0	1.0	0.04	2.430	3.045
	FR1 n77	100M	BPSK	1	1	Right Side	11mm	Ant 5	DSI4	656000	3840	1	22.85	24.00	1.303			-0.03	0.252	0.328
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 5	DSI6	656000	3840	1	21.89	22.90	1.262			-0.11	1.480	1.868
	FR1 n77	100M	BPSK	135	69	Top Side	0mm	Ant 5	DSI6	656000	3840	1	21.86	22.90	1.271			0.15	1.350	1.716
	FR1 n77	100M	BPSK	1	1	Top Side	7mm	Ant 5	DSI4	656000	3840	1	22.85	24.00	1.303			0.03	0.362	0.472
	FR1 n77_HPUE	100M	BPSK	1	1	Back	2mm	Ant 5	DSI4	656000	3840	1	25.89	27.00	1.291	50.0	1.0	0.05	0.486	0.627
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 5	DSI6	656000	3840	2	21.89	22.90	1.262			0.06	2.060	2.600
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 5	DSI6	656000	3840	Cover	21.89	22.90	1.262			-0.02	2.310	2.915
	FR1 n77	100M	BPSK	1	1	Front	0mm	Ant 8	DSI4	656000	3840	1	20.03	21.20	1.309			-0.19	1.770	2.317
	FR1 n77	100M	BPSK	135	69	Front	0mm	Ant 8	DSI4	656000	3840	1	19.99	21.20	1.321			-0.06	1.890	2.497
	FR1 n77	100M	BPSK	270	0	Front	0mm	Ant 8	DSI4	656000	3840	1	19.92	21.20	1.343			-0.01	1.750	2.350
	FR1 n77	100M	BPSK	1	1	Back	0mm	Ant 8	DSI4	656000	3840	1	20.03	21.20	1.309			-0.05	1.090	1.427
	FR1 n77	100M	BPSK	135	69	Back	0mm	Ant 8	DSI4	656000	3840	1	19.99	21.20	1.321			0.16	1.020	1.347
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 8	DSI4	656000	3840	1	20.03	21.20	1.309			0.03	2.420	3.168
	FR1 n77	100M	BPSK	135	69	Right Side	0mm	Ant 8	DSI4	656000	3840	1	19.99	21.20	1.321			-0.18	2.380	3.144
	FR1 n77	100M	BPSK	270	0	Right Side	0mm	Ant 8	DSI4	656000	3840	1	19.92	21.20	1.343			0.09	2.340	3.143
	FR1 n77_HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 8	DSI4	656000	3840	1	23.06	24.20	1.3	50.0	1.0	0.01	2.310	3.003
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 8	DSI4	656000	3840	2	20.03	21.20	1.309			-0.06	1.990	2.605
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 8	DSI4	656000	3840	Cover	20.03	21.20	1.309			0.04	2.280	2.985
	FR1 n77	100M	BPSK	1	1	Back	0mm	Ant 4	DSI6	656000	3840	1	20.43	21.70	1.34			0.05	0.262	0.351
	FR1 n77	100M	BPSK	135	69	Back	0mm	Ant 4	DSI6	656000	3840	1	20.40	21.70	1.349			0.02	0.257	0.347
	FR1 n77	100M	BPSK	1	1	Back	2mm	Ant 4	DSI4	656000	3840	1	22.89	24.00	1.291			0.06	0.211	0.272
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSI6	656000	3840	1	20.43	21.70	1.34			0.06	2.370	3.176
	FR1 n77	100M	BPSK	135	69	Top Side	0mm	Ant 4	DSI6	656000	3840	1	20.40	21.70	1.349			0.08	2.120	2.860
	FR1 n77	100M	BPSK	270	0	Top Side	0mm	Ant 4	DSI6	656000	3840	1	20.30	21.70	1.38			0.06	2.090	2.884
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSI6	656000	3840	1	23.48	24.70	1.324	50.0	1.0	-0.04	2.310	3.058
	FR1 n77	100M	BPSK	1	1	Top Side	7mm	Ant 4	DSI4	656000	3840	1	22.89	24.00	1.291			0.06	0.622	0.803
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	7mm	Ant 4	DSI4	656000	3840	1	25.96	27.00	1.271	50.0	1.0	0.06	0.656	0.834
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSI6	656000	3840	2	20.43	21.70	1.34			0.02	1.970	2.640
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSI6	656000	3840	Cover	20.43	21.70	1.34			-0.04	2.190	2.935



<PA (Reference Designator)>

Plot No	Band	BW	Modulation	RB Size	RB Offset	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	Actual Duty Cycle %	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Note
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 0	DSi6	21100	2535	1	19.35	20	1.161	100	1.000	100	-0.12	0.264	0.307	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	21100	2535	1	20.74	21.9	1.306	100	1.000	100	0.07	0.787	1.028	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	20850	2510	1	21.09	22	1.233	100	1.000	100	-0.03	0.902	1.112	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	21100	2535	1	18.76	20	1.330	100	1.000	100	-0.03	1.290	1.716	PA (Reference Designator)
	LTE Band 25	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	26590	1905	1	20.96	22	1.271	100	1.000	100	-0.06	1.310	1.665	PA (Reference Designator)
	LTE Band 25	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	26140	1860	1	19.19	20	1.205	100	1.000	100	0.19	1.270	1.53	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	132072	1720	1	20.38	21	1.153	100	1.000	100	0.08	1.420	1.637	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	132072	1720	1	19.94	21.7	1.500	100	1.000	100	0.07	1.360	2.04	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	132322	1745	1	20.97	22	1.268	100	1.000	100	0.12	1.130	1.433	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	132572	1770	1	19.1	20	1.230	100	1.000	100	0.13	1.760	2.165	PA (Reference Designator)
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	55830	3609	1	20.95	22	1.274	62.9	1.006	63.3	-0.04	1.890	2.422	PA (Reference Designator)
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	55990	3625	1	20.24	21	1.191	62.9	1.006	63.3	0.01	1.530	1.833	PA (Reference Designator)
	FR1 n7	50M	BPSK	135	68	Back	0mm	Ant 1	DSi6	507000	2535	1	20.02	21.6	1.439	100	1.000	100	0.16	1.490	2.144	PA (Reference Designator)
	FR1 n25	40M	BPSK	1	1	Back	0mm	Ant 2	DSi6	376500	1882.5	1	21.49	23	1.416	100	1.000	100	0.02	1.370	1.94	PA (Reference Designator)
	FR1 n66	40M	BPSK	1	1	Front	0mm	Ant 2	DSi6	349000	1745	1	22.02	23	1.253	100	1.000	100	-0.06	1.450	1.817	PA (Reference Designator)
	FR1 n41	100M	BPSK	135	69	Left Side	0mm	Ant 0	DSi6	518598	2592.99	1	22.06	23	1.242	100	1.000	100	-0.18	0.880	1.093	PA (Reference Designator)
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 1	DSi6	518598	2592.99	1	19.8	21.6	1.514	100	1.000	100	-0.14	1.840	2.786	PA (Reference Designator)
	FR1 n77_HPUE	100M	BPSK	1	1	Back	0mm	Ant 7	DSi6	656000	3840	1	22.99	23.5	1.125	50	1.000	50	-0.01	2.050	2.306	PA (Reference Designator)
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 5	DSi6	656000	3840	1	21.51	22.9	1.377	100	1.000	100	-0.13	2.210	3.043	PA (Reference Designator)
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 8	DSi4	656000	3840	1	19.88	21.2	1.355	100	1.000	100	0.05	1.770	2.398	PA (Reference Designator)
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSi6	656000	3840	1	20.38	21.7	1.355	100	1.000	100	-0.15	2.130	2.886	PA (Reference Designator)

<MIMO SAR>

Plot No	Band	BW	Modulation	RB Size	RB Offset	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)
	FR1 n77_PC2	100M	BPSK	1	1	Front	0mm	Ant 7+5	DSi6	656000	3840	1	22.44	23.5	1.278	50.000	1	-0.13	1.650	2.109
	FR1 n77_PC2	100M	BPSK	135	69	Front	0mm	Ant 7+5	DSi6	656000	3840	1	22.43	23.5	1.281	50.000	1	0.06	1.370	1.755
	FR1 n77_PC2	100M	BPSK	270	0	Back	0mm	Ant 7+5	DSi6	656000	3840	1	22.34	23.5	1.307	50.000	1	-0.03	1.160	1.516
	FR1 n77_PC2	100M	BPSK	1	1	Back	0mm	Ant 7+5	DSi6	656000	3840	1	22.44	23.5	1.278	50.000	1	-0.03	0.453	0.579
	FR1 n77_PC2	100M	BPSK	135	69	Back	0mm	Ant 7+5	DSi6	656000	3840	1	22.43	23.5	1.281	50.000	1	0.08	0.461	0.591
	FR1 n77_PC2	100M	BPSK	1	1	Left Side	0mm	Ant 7+5	DSi6	656000	3840	1	22.44	23.5	1.278	50.000	1	-0.07	1.630	2.083
	FR1 n77_PC2	100M	BPSK	135	69	Left Side	0mm	Ant 7+5	DSi6	656000	3840	1	22.43	23.5	1.281	50.000	1	0.05	1.600	2.050
	FR1 n77_PC2	100M	BPSK	270	0	Left Side	0mm	Ant 7+5	DSi6	656000	3840	1	22.34	23.5	1.307	50.000	1	-0.11	1.560	2.039
	FR1 n77_PC1.5	100M	BPSK	1	1	Left Side	0mm	Ant 7+5	DSi6	656000	3840	1	25.51	26.5	1.256	25.000	1	-0.12	1.740	2.185

【WLAN 2.4GHz_5GHz SAR】

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)
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6+3(6)	Extremity Standalone	1	2412	1	20.21	21.50	1.346	97.03	1.031	0.03	0.648	0.899
102	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 6+3(6)	Extremity Standalone	1	2412	1	20.21	21.50	1.346	97.03	1.031	-0.02	2.280	3.164
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 6+3(6)	Extremity Standalone	6	2437	1	19.84	21.50	1.466	97.03	1.031	0.01	2.060	3.114
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 6+3(6)	Extremity Standalone	1	2412	2	20.21	21.50	1.346	97.03	1.031	0.03	1.930	2.678
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 6+3(6)	Extremity Standalone	1	2412	Cover	20.21	21.50	1.346	97.03	1.031	-0.04	2.150	2.984
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 6+3(3)	Extremity Standalone	11	2462	1	19.89	21.50	1.449	97.03	1.031	0.06	2.030	3.033
	WLAN2.4GHz	802.11g 6Mbps	Right Side	0mm	Ant 6+3(6)	Extremity Standalone	6	2437	1	19.98	21.50	1.419	98.63	1.014	0.06	2.010	2.892
103	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	46	5230	1	19.39	21.00	1.449	100.0	1.0	-0.13	2.010	2.912
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	46	5230	2	19.39	21.00	1.449	100.0	1.0	0.09	1.790	2.594
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	46	5230	Cover	19.39	21.00	1.449	100.0	1.0	0.05	1.920	2.782
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	38	5190	1	16.51	18.00	1.409	100.0	1.0	0.06	1.130	1.592
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(5)	Extremity Standalone	54	5270	1	19.37	21.00	1.455	100.0	1.0	0.01	0.874	1.272
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+4(5)	Extremity Standalone	54	5270	1	19.37	21.00	1.455	100.0	1.0	0.03	0.289	0.420
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 5+4(5)	Extremity Standalone	54	5270	1	19.37	21.00	1.455	100.0	1.0	0.06	0.358	0.521
104	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	54	5270	1	19.37	21.00	1.455	100.0	1.0	-0.13	1.880	2.735
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+4(5)	Extremity Standalone	54	5270	1	19.37	21.00	1.455	100.0	1.0	0.02	1.850	2.692
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	62	5310	1	16.48	18.00	1.419	100.0	1.0	0.04	0.965	1.369



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	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+4(4)	Extremity Standalone	62	5310	1	16.48	18.00	1.419	100.0	1.0	0.03	0.938	1.331
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	54	5270	2	19.37	21.00	1.455	100.0	1.0	-0.06	1.590	2.313
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	54	5270	Cover	19.37	21.00	1.455	100.0	1.0	0.01	1.790	2.604
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	Extremity Standalone	138	5690	1	19.22	21.00	1.507	100.0	1.0	0.06	1.000	1.507
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	8mm	Ant 5+4(5)	Full Power	138	5690	1	19.68	21.50	1.521	100.0	1.0	0.03	0.262	0.399
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	Extremity Standalone	138	5690	1	19.22	21.00	1.507	100.0	1.0	0.05	0.383	0.577
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	2mm	Ant 5+4(5)	Full Power	138	5690	1	19.68	21.50	1.521	100.0	1.0	-0.02	0.350	0.532
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 5+4(5)	Extremity Standalone	138	5690	1	19.22	21.00	1.507	100.0	1.0	-0.03	0.025	0.038
105	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	138	5690	1	19.22	21.00	1.507	100.0	1.0	-0.16	2.020	3.044
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	11mm	Ant 5+4(5)	Full Power	138	5690	1	19.68	21.50	1.521	100.0	1.0	0.01	0.248	0.377
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	Extremity Standalone	138	5690	1	19.22	21.00	1.507	100.0	1.0	0.03	0.274	0.413
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	7mm	Ant 5+4(5)	Full Power	138	5690	1	19.68	21.50	1.521	100.0	1.0	-0.06	0.252	0.383
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	122	5610	1	18.70	20.50	1.514	100.0	1.0	0.06	1.850	2.801
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	138	5690	2	19.22	21.00	1.507	100.0	1.0	0.03	1.860	2.803
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	138	5690	Cover	19.22	21.00	1.507	100.0	1.0	0.01	1.900	2.863
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	106	5530	1	16.05	18.00	1.567	100.0	1.0	0.06	1.100	1.724
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	126	5630	1	19.41	21.00	1.442	100.0	1.0	0.06	1.890	2.725
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(4)	Extremity Standalone	155	5775	1	18.76	20.50	1.493	100.0	1.0	0.03	1.300	1.941
	WLAN5GHz	802.11n-HT40 MCS0	Front	8mm	Ant 5+4(5)	Full Power	159	5795	1	19.92	21.50	1.439	100.0	1.0	0.06	0.253	0.364
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(4)	Extremity Standalone	155	5775	1	18.76	20.50	1.493	100.0	1.0	0.06	0.393	0.587
	WLAN5GHz	802.11n-HT40 MCS0	Back	2mm	Ant 5+4(5)	Full Power	159	5795	1	19.92	21.50	1.439	100.0	1.0	0.01	0.383	0.551
106	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	155	5775	1	18.76	20.50	1.493	100.0	1.0	-0.01	2.070	3.091
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	11mm	Ant 5+4(5)	Full Power	159	5795	1	19.92	21.50	1.439	100.0	1.0	0.03	0.297	0.427
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	155	5775	2	18.76	20.50	1.493	100.0	1.0	0.03	1.890	2.822
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	155	5775	Cover	18.76	20.50	1.493	100.0	1.0	-0.05	2.030	3.031
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	159	5795	1	18.55	20.50	1.567	100.0	1.0	0.06	1.840	2.883

【WLAN 6GHz SAR】

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)	Measured APD (W/m^2)
	WLAN6GHz	802.11be-EHT320 MCS0	Front	0mm	Ant 5+4(4)	Extremity Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	0.10	0.137	0.197	3.110
	WLAN6GHz	802.11be-EHT320 MCS0	Front	8mm	Ant 5+4(4)	Full Power	31	6105	1	16.89	18.50	1.449	100.0	1.0	-0.09	0.111	0.161	2.850
	WLAN6GHz	802.11be-EHT320 MCS0	Back	0mm	Ant 5+4(4)	Extremity Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	-0.03	0.079	0.113	1.610
	WLAN6GHz	802.11be-EHT320 MCS0	Back	2mm	Ant 5+4(4)	Full Power	31	6105	1	16.89	18.50	1.449	100.0	1.0	0.05	0.074	0.107	1.550
	WLAN6GHz	802.11be-EHT320 MCS0	Left Side	0mm	Ant 5+4(4)	Extremity Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	0.02	0.013	0.019	0.254
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	-0.05	0.292	0.419	6.090
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	11mm	Ant 5+4(4)	Full Power	31	6105	1	16.89	18.50	1.449	100.0	1.0	-0.01	0.098	0.142	2.090
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 5+4(4)	Extremity Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	-0.17	0.288	0.413	6.030
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	7mm	Ant 5+4(4)	Full Power	31	6105	1	16.89	18.50	1.449	100.0	1.0	0.05	0.161	0.233	3.660
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	31	6105	1	9.27	11.00	1.489	100.0	1.0	0.02	0.427	0.636	9.760
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	63	6265	1	12.67	14.50	1.524	100.0	1.0	-0.05	0.434	0.661	9.910
107	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	95	6425	1	15.89	17.50	1.449	100.0	1.0	-0.09	0.475	0.688	10.900
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	127	6585	1	15.94	17.50	1.432	100.0	1.0	-0.05	0.292	0.418	6.090
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 5+4(4)	Extremity Standalone	191	6905	1	15.48	17.00	1.419	100.0	1.0	-0.17	0.063	0.089	1.170
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	95	6425	2	15.89	17.50	1.449	100.0	1.0	0.06	0.429	0.622	9.850
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 5+4(5)	Extremity Standalone	95	6425	Cover	15.89	17.50	1.449	100.0	1.0	-0.02	0.436	0.632	9.960

【Bluetooth SAR】

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)
108	Bluetooth	BT6.0 ASK 1Mbps	Right Side	0mm	Ant 6	Extremity Standalone	38	2440	1	19.88	21.00	1.294	100.0	1.0	-0.02	1.870	2.420
	Bluetooth	BT6.0 ASK 1Mbps	Right Side	0mm	Ant 6	Extremity Standalone	2	2404	1	18.12	20.00	1.542	100.0	1.0	-0.13	1.350	2.082
	Bluetooth	BT6.0 ASK 1Mbps	Right Side	0mm	Ant 6	Extremity Standalone	76	2478	1	18.49	20.00	1.416	100.0	1.0	-0.13	1.330	1.883

16.5 6GHz PD Test Result
<WLAN PD>

Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Power Setting	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 5+4(4)	Standalone	31	6105	8.5	9.27	0.0625	1.58	3.34	1.730	1.940
WLAN6GHz	802.11be-EHT320 MCS0	Right Side	10mm	Ant 5+4(4)	Standalone	31	6105	8.5	9.27	0.15	0.732		0.494	0.505
WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 5+4(4)	Standalone	191	6905	15	15.48	0.0625	1.56	-0.74	1.620	3.400
WLAN6GHz	802.11be-EHT320 MCS0	Right Side	8.59mm	Ant 5+4(4)	Standalone	191	6905	15	15.48	0.15	1.85		1.150	1.170

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for measurement uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
01	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 5+4(4)	Standalone	95	6425	14.66	16.50	1.528	100	1.000	0.0625	1.5535	-0.05	2.380	5.65	3.310	7.85
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 5+4(4)	Standalone	31	6105	13.68	15.50	1.521	100	1.000	0.0625	1.5535	0.03	2.170	5.13	3.130	7.39
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 5+4(4)	Standalone	63	6265	13.33	15.00	1.469	100	1.000	0.0625	1.5535	-0.08	1.900	4.34	2.600	5.93
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 5+4(4)	Standalone	127	6585	13.25	15.00	1.496	100	1.000	0.0625	1.5535	-0.01	1.990	4.63	2.360	5.49
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 5+4(4)	Standalone	159	6745	15.93	17.50	1.435	100	1.000	0.0625	1.5535	-0.07	2.260	5.04	3.000	6.69
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 5+4(4)	Standalone	191	6905	15.48	17.00	1.419	100	1.000	0.0625	1.5535	0.01	1.680	3.70	2.930	6.46
	WLAN6GHz	802.11be-EHT320 MCS0	Back	2mm	Ant 5+4(5)	Standalone	95	6425	15.89	17.50	1.449	100	1.000	0.0625	1.5535	0.03	1.870	4.21	2.580	5.81
	WLAN6GHz	802.11be-EHT320 MCS0	Back	2mm	Ant 5+4(4)	Standalone	31	6105	16.31	18.00	1.476	100	1.000	0.0625	1.5535	0.01	1.810	4.15	3.220	7.38
	WLAN6GHz	802.11be-EHT320 MCS0	Back	2mm	Ant 5+4(4)	Standalone	63	6265	16.03	17.50	1.403	100	1.000	0.0625	1.5535	0.05	2.110	4.60	2.930	6.39
	WLAN6GHz	802.11be-EHT320 MCS0	Back	2mm	Ant 5+4(4)	Standalone	127	6585	15.94	17.50	1.432	100	1.000	0.0625	1.5535	0.09	1.430	3.18	2.210	4.92
	WLAN6GHz	802.11be-EHT320 MCS0	Back	2mm	Ant 5+4(4)	Standalone	159	6745	15.93	17.50	1.435	100	1.000	0.0625	1.5535	0.1	1.690	3.77	2.080	4.64
	WLAN6GHz	802.11be-EHT320 MCS0	Back	2mm	Ant 5+4(4)	Standalone	191	6905	15.48	17.00	1.419	100	1.000	0.0625	1.5535	0.13	1.480	3.26	2.130	4.70
	WLAN6GHz	802.11be-EHT320 MCS0	Back	17mm	Ant 5+4(4)	Full power	31	6105	16.89	18.50	1.449	100	1.000	0.0625	1.5535	0.07	1.240	2.79	1.280	2.88
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 5+4(5)	Standalone	95	6425	15.89	17.50	1.449	100	1.000	0.0625	1.5535	0.05	2.150	4.84	3.410	7.67
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 5+4(4)	Standalone	31	6105	9.27	11.00	1.489	100	1.000	0.0625	1.5535	0.03	1.730	4.00	1.940	4.49
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 5+4(4)	Standalone	63	6265	12.67	14.50	1.524	100	1.000	0.0625	1.5535	0.01	2.450	5.80	2.910	6.89
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 5+4(4)	Standalone	127	6585	15.94	17.50	1.432	100	1.000	0.0625	1.5535	-0.05	2.370	5.27	3.050	6.79
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 5+4(4)	Standalone	159	6745	15.93	17.50	1.435	100	1.000	0.0625	1.5535	0.03	1.100	2.45	2.730	6.09
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 5+4(4)	Standalone	191	6905	15.48	17.00	1.419	100	1.000	0.0625	1.5535	0.01	1.620	3.57	3.400	7.50
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	11mm	Ant 5+4(5)	Full power	95	6425	15.89	17.50	1.449	100	1.000	0.0625	1.5535	-0.19	2.530	5.69	2.710	6.10

16.6 Repeated SAR Measurement

<1g>

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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
1st	LTE Band 12	10M_QPSK_1_0	Left Side	5	Ant 0	DSI7	23095	707.5	1	22.30	24.00	1.479	-0.01	0.834	1.233	-
2nd	LTE Band 12	10M_QPSK_1_0	Left Side	5	Ant 0	DSI7	23095	707.5		22.30	24.00	1.479	0.03	0.816	1.207	1.02
1st	WCDMA V	RMC 12.2Kbps	Back	5	Ant 1	DSI7	4182	836.4	1	23.22	24.00	1.197	0.16	1.040	1.245	-
2nd	WCDMA V	RMC 12.2Kbps	Back	5	Ant 1	DSI7	4182	836.4		23.22	24.00	1.197	0.03	1.020	1.221	1.02
1st	FR1 n66	40M_BPSK_1_1	Right Cheek	0	Ant 1	DSI2	349000	1745	1	16.49	17.20	1.178	0.12	1.090	1.284	-
2nd	FR1 n66	40M_BPSK_1_1	Right Cheek	0	Ant 1	DSI2	349000	1745	1	16.49	17.20	1.178	0.03	1.060	1.249	1.03
1st	GSM1900	GPRS 4 Tx slots	Back	5	Ant 1	DSI7	661	1880	1	21.36	22.10	1.186	-0.09	1.090	1.293	-
2nd	GSM1900	GPRS 4 Tx slots	Back	5	Ant 1	DSI7	661	1880		21.36	22.10	1.186	0.05	1.060	1.257	1.03
1st	Bluetooth	BT6.0 ASK 1Mbps	Left Cheek	0	Ant 6	Head Standalone	38	2440	1	19.88	21.00	1.294	0.08	0.996	1.289	-
2nd	Bluetooth	BT6.0 ASK 1Mbps	Left Cheek	0	Ant 6	Head Standalone	38	2440	1	19.88	21.00	1.294	0.03	0.985	1.275	1.01
1st	FR1 n41	100M_BPSK_135_69	Right Cheek	0	Ant 1	DSI2	518598	2592.99	1	17.33	18.00	1.167	0.04	1.100	1.284	-
2nd	FR1 n41	100M_BPSK_135_69	Right Cheek	0	Ant 1	DSI2	518598	2592.99		17.33	18.00	1.167	0.01	1.060	1.237	1.04
1st	FR1 n77	100M_BPSK_1_1	Right Side	5	Ant 5	DSI7	656000	3840	1	18.89	19.60	1.178	-0.03	1.090	1.284	-
2nd	FR1 n77	100M_BPSK_1_1	Right Side	5	Ant 5	DSI7	656000	3840		18.89	19.60	1.178	-0.03	1.050	1.237	1.04
1st	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0	Ant 5+4(5)	Head Standalone	50	5250	1	14.89	16.50	1.449	0.02	0.807	1.169	-
2nd	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0	Ant 5+4(5)	Head Standalone	50	5250		14.89	16.50	1.449	0.03	0.800	1.159	1.01
1st	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0	Ant 5+4(4)	Head Standalone	114	5570	1	15.06	16.50	1.393	-0.06	0.817	1.138	-
2nd	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0	Ant 5+4(4)	Head Standalone	114	5570		15.06	16.50	1.393	0.01	0.808	1.126	1.01
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5	Ant 5+4(4)	Hotspot	155	5775	1	15.60	17.00	1.38	0.02	0.843	1.163	-
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5	Ant 5+4(4)	Hotspot	155	5775		15.60	17.00	1.38	-0.05	0.823	1.136	1.02

<10g>

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)	Ratio
1st	FR1 n66	40M_BPSK_1_1	Back	0	Ant 1	DSI6	349000	1745		19.95	20.90	1.245			-0.02	2.560	3.187	-
2nd	FR1 n66	40M_BPSK_1_1	Back	0	Ant 1	DSI6	349000	1745		19.95	20.90	1.245			0.06	2.520	3.137	1.02
1st	WCDMA II	RMC 12.2Kbps	Back	0	Ant 1	DSI6	9262	1852.4	1	21.06	21.90	1.213			-0.01	2.620	3.178	-
2nd	WCDMA II	RMC 12.2Kbps	Back	0	Ant 1	DSI6	9262	1852.4		21.06	21.90	1.213			-0.03	2.570	3.117	1.02
1st	WLAN2.4GHz	802.11b 1Mbps	Right Side	0	Ant 6+3(6)	Extremity Standalone	1	2412	1	20.21	21.50	1.346	97.03	1.031	-0.02	2.280	3.164	-
2nd	WLAN2.4GHz	802.11b 1Mbps	Right Side	0	Ant 6+3(6)	Extremity Standalone	1	2412		20.21	21.50	1.346	97.03	1.031	0.03	2.210	3.067	1.03
1st	FR1 n7	50M_BPSK_135_68	Back	0	Ant 1	DSI6	507000	2535	1	20.83	21.60	1.194			0.03	2.660	3.176	-
2nd	FR1 n7	50M_BPSK_135_68	Back	0	Ant 1	DSI6	507000	2535	1	20.83	21.60	1.194			0.02	2.630	3.140	1.01
1st	LTE Band 48	20M_QPSK_1_0	Back	0	Ant 7	DSI6	55830	3609	1	22.38	23.30	1.236	62.9	1.006	-0.01	2.560	3.183	-
2nd	LTE Band 48	20M_QPSK_1_0	Back	0	Ant 7	DSI6	55830	3609		22.38	23.30	1.236	62.9	1.006	-0.07	2.520	3.133	1.02
1st	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0	Ant 5+4(5)	Extremity Standalone	46	5230	1	19.39	21.00	1.449			-0.13	2.010	2.912	-
2nd	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0	Ant 5+4(5)	Extremity Standalone	46	5230		19.39	21.00	1.449			0.06	1.980	2.869	1.01
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0	Ant 5+4(5)	Extremity Standalone	138	5690	1	19.22	21.00	1.507			-0.16	2.020	3.044	-
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0	Ant 5+4(5)	Extremity Standalone	138	5690	1	19.22	21.00	1.507			0.06	1.990	2.999	1.02
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0	Ant 5+4(4)	Extremity Standalone	155	5775	1	18.76	20.50	1.493			-0.01	2.070	3.091	-
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0	Ant 5+4(4)	Extremity Standalone	155	5775	1	18.76	20.50	1.493			-0.06	2.050	3.061	1.01

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/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.

16.7 TDD LTE/FR1 Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41 and FR1 n41/n77. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

LTE Band 41_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.0	26.0
Reported 1g SAR (W/kg)	0.059	0.078
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38
Linearity SAR(W/kg)	0.08	
% deviation from Expected Linearity		-3.14%
LTE Band 41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.8	22.4
Reported 1g SAR (W/kg)	1.291	1.262
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	76.10	75.25
Linearity SAR(W/kg)	1.28	
% deviation from Expected Linearity		-1.14%
LTE Band 41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.078	0.114
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR(W/kg)	0.11	
% deviation from Expected Linearity		7.08%
LTE Band 41_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.0	24.5
Reported 1g SAR (W/kg)	0.924	1.147
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	100.32	122.04
Linearity SAR(W/kg)	1.12	
% deviation from Expected Linearity		2.04%
LTE Band 41_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.0	26.0
Reported 1g SAR (W/kg)	0.486	0.670
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38
Linearity SAR(W/kg)	0.66	
% deviation from Expected Linearity		1.01%
LTE Band 41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.3	22.9
Reported 1g SAR (W/kg)	1.287	1.220
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	85.39	84.43
Linearity SAR(W/kg)	1.27	
% deviation from Expected Linearity		-4.13%
LTE Band 41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.7	23.3
Reported 1g SAR (W/kg)	1.290	1.257
Duty Cycle (%)	63.30%	43.30%

Frame Averaged (m/W)	93.63	92.57
Linearity SAR(W/kg)	1.28	
% deviation from Expected Linearity		-1.44%
LTE Band 41_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.0	25.0
Reported 1g SAR (W/kg)	0.820	1.045
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (m/W)	100.32	136.93
Linearity SAR(W/kg)	1.12	
% deviation from Expected Linearity		-6.63%
LTE Band 41_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.0	26.0
Reported 1g SAR (W/kg)	0.925	1.187
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (m/W)	126.30	172.38
Linearity SAR(W/kg)	1.26	
% deviation from Expected Linearity		-5.98%
LTE Band 41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.7	22.3
Reported 1g SAR (W/kg)	1.285	1.196
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (m/W)	74.37	73.53
Linearity SAR(W/kg)	1.27	
% deviation from Expected Linearity		-5.86%
LTE Band 41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.5	22.1
Reported 1g SAR (W/kg)	1.287	1.210
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (m/W)	71.02	70.22
Linearity SAR(W/kg)	1.27	
% deviation from Expected Linearity		-4.91%
LTE Band 41_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.1	22.7
Reported 1g SAR (W/kg)	1.290	1.260
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (m/W)	81.55	80.63
Linearity SAR(W/kg)	1.28	
% deviation from Expected Linearity		-1.21%
LTE Band 41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.5	25.1
Reported 10g SAR (W/kg)	3.178	3.063
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (m/W)	141.71	140.12
Linearity SAR(W/kg)	3.14	
% deviation from Expected Linearity		-2.52%
LTE Band 41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.6	25.2
Reported 10g SAR (W/kg)	3.167	3.064
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (m/W)	145.01	143.38
Linearity SAR(W/kg)	3.13	
% deviation from Expected Linearity		-2.15%
LTE Band 41_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.0	25.0
Reported 10g SAR (W/kg)	1.619	2.128
Duty Cycle (%)	63.30%	43.30%



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Frame Averaged (m/W)	100.32	136.93
Linearity SAR(W/kg)	2.21	
% deviation from Expected Linearity		-3.70%

FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.0	21.0
Reported 1g SAR (W/kg)	1.284	1.210
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	63.10	62.95
Linearity SAR(W/kg)	1.28	
% deviation from Expected Linearity		-5.54%
FR1 n41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.139	0.140
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	251.19	250.59
Linearity SAR(W/kg)	0.14	
% deviation from Expected Linearity		0.96%
FR1 n41_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.1	21.1
Reported 1g SAR (W/kg)	1.066	1.079
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	64.57	64.41
Linearity SAR(W/kg)	1.06	
% deviation from Expected Linearity		1.47%
FR1 n77_Ant 4	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.7	23.7
Reported 1g SAR (W/kg)	1.293	1.227
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	117.49	117.21
Linearity SAR(W/kg)	1.29	
% deviation from Expected Linearity		-4.88%
FR1 n77_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.2	22.2
Reported 1g SAR (W/kg)	1.293	1.233
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	83.18	82.98
Linearity SAR(W/kg)	1.29	
% deviation from Expected Linearity		-4.41%
FR1 n77_Ant 7	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.1	21.1
Reported 1g SAR (W/kg)	1.291	1.246
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	64.57	64.41
Linearity SAR(W/kg)	1.29	
% deviation from Expected Linearity		-3.25%
FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.2	22.2
Reported 1g SAR (W/kg)	1.294	1.259
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	83.18	82.98
Linearity SAR(W/kg)	1.29	
% deviation from Expected Linearity		-2.47%
FR1 n41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.8	24.8
Reported 1g SAR (W/kg)	1.296	1.273



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Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	151.36	151.00
Linearity SAR(W/kg)	1.29	
% deviation from Expected Linearity		-1.54%
FR1 n41_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.7	21.7
Reported 1g SAR (W/kg)	1.037	1.000
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	74.13	73.96
Linearity SAR(W/kg)	1.03	
% deviation from Expected Linearity		-3.35%
FR1 n77_Ant 4	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	1.229	1.224
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	251.19	250.59
Linearity SAR(W/kg)	1.23	
% deviation from Expected Linearity		-0.17%
FR1 n77_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.1	24.1
Reported 1g SAR (W/kg)	1.286	1.233
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	128.82	128.52
Linearity SAR(W/kg)	1.28	
% deviation from Expected Linearity		-3.90%
FR1 n77_Ant 7	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.5	23.5
Reported 1g SAR (W/kg)	1.275	1.218
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	112.20	111.94
Linearity SAR(W/kg)	1.27	
% deviation from Expected Linearity		-4.25%
FR1 n77_Ant 8	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.0	24.0
Reported 1g SAR (W/kg)	1.284	1.208
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	125.89	125.59
Linearity SAR(W/kg)	1.28	
% deviation from Expected Linearity		-5.69%
FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.6	21.6
Reported 1g SAR (W/kg)	1.296	1.234
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	72.44	72.27
Linearity SAR(W/kg)	1.29	
% deviation from Expected Linearity		-4.56%
FR1 n41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.8	22.8
Reported 1g SAR (W/kg)	1.277	1.252
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	95.50	95.27
Linearity SAR(W/kg)	1.27	
% deviation from Expected Linearity		-1.72%
FR1 n41_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	16.1	19.1
Reported 1g SAR (W/kg)	1.038	1.023



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Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	40.74	40.64
Linearity SAR(W/kg)	1.04	
% deviation from Expected Linearity		-1.20%
FR1 n77_Ant 4	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.0	23.0
Reported 1g SAR (W/kg)	1.280	1.244
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	100.00	99.76
Linearity SAR(W/kg)	1.28	
% deviation from Expected Linearity		-2.58%
FR1 n77_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.6	22.6
Reported 1g SAR (W/kg)	1.284	1.202
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	91.20	90.99
Linearity SAR(W/kg)	1.28	
% deviation from Expected Linearity		-6.17%
FR1 n77_Ant 7	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.4	21.4
Reported 1g SAR (W/kg)	1.293	1.249
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	69.18	69.02
Linearity SAR(W/kg)	1.29	
% deviation from Expected Linearity		-3.18%
FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.6	24.6
Reported 10g SAR (W/kg)	3.179	3.076
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	144.54	144.20
Linearity SAR(W/kg)	3.17	
% deviation from Expected Linearity		-3.01%
FR1 n41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.5	25.5
Reported 10g SAR (W/kg)	3.101	3.184
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	177.83	177.41
Linearity SAR(W/kg)	3.09	
% deviation from Expected Linearity		2.92%
FR1 n41_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.7	23.7
Reported 10g SAR (W/kg)	3.033	3.144
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	117.49	117.21
Linearity SAR(W/kg)	3.03	
% deviation from Expected Linearity		3.91%
FR1 n77_Ant 4	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.7	24.7
Reported 10g SAR (W/kg)	3.176	3.058
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (m/W)	147.91	147.56
Linearity SAR(W/kg)	3.17	
% deviation from Expected Linearity		-3.49%
FR1 n77_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.9	25.9
Reported 10g SAR (W/kg)	3.155	3.045



Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	194.98	194.52
Linearity SAR(W/kg)	3.15	
% deviation from Expected Linearity		-3.26%
FR1 n77_Ant 7	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.5	23.5
Reported 10g SAR (W/kg)	3.117	3.188
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	112.20	111.94
Linearity SAR(W/kg)	3.11	
% deviation from Expected Linearity		2.52%
FR1 n77_Ant 8	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.2	24.2
Reported 10g SAR (W/kg)	3.168	3.003
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	131.83	131.51
Linearity SAR(W/kg)	3.16	
% deviation from Expected Linearity		-4.98%

NR n77(HPUE)-Linearity Data for Head Ant8

	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.00	24.00
Reported 1g SAR (W/kg)	0.375	0.381
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	0.374	
% deviation from expected linearity		1.84%

LTE B41-Linearity Data for Body-worn Ant 1

	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.404	0.555	Reported 1g SAR (W/kg)	0.388	0.553
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	0.551		Linearity SAR (W/kg)	0.530	
% deviation from expected linearity		0.65%	% deviation from expected linearity		4.43%
LTE B41-Linearity Data for Extremity Ant 1			LTE B41-Linearity Data for Extremity Ant 2		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	0.610	0.784	Reported 10g SAR (W/kg)	0.539	0.724
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	0.833		Linearity SAR (W/kg)	0.736	
% deviation from expected linearity		-5.83%	% deviation from expected linearity		-1.58%

NR n41(HPUE)-Linearity Data for Body-worn Ant1			NR n41(HPUE)-Linearity Data for Body-worn Ant2		
	NR n41 (Power Class 3)	NR n41 (Power Class 2)		NR n41 (Power Class 3)	NR n41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.552	0.530	Reported 1g SAR (W/kg)	0.308	0.292
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.551		Linearity SAR (W/kg)	0.307	
% deviation from expected linearity		-3.76%	% deviation from expected linearity		-4.97%
NR n41(HPUE)-Linearity Data for Extremity Ant1			NR n41(HPUE)-Linearity Data for Extremity Ant2		
	NR n41 (Power Class 3)	NR n41 (Power Class 2)		NR n41 (Power Class 3)	NR n41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	0.801	0.768	Reported 10g SAR (W/kg)	0.522	0.488
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.799		Linearity SAR (W/kg)	0.521	
% deviation from expected linearity		-3.89%	% deviation from expected linearity		-6.29%

NR n41(HPUE)-Linearity Data for Body-worn Ant6		
	NR n41 (Power Class 3)	NR n41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	25.00
Reported 1g SAR (W/kg)	0.486	0.360
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	158.11
Linearity SAR (W/kg)	0.385	
% deviation from expected linearity		-6.52%
NR n41(HPUE)-Linearity Data for Extremity Ant6		
	NR n41 (Power Class 3)	NR n41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	25.00
Reported 10g SAR (W/kg)	0.784	0.669
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	158.11
Linearity SAR (W/kg)	0.621	
% deviation from expected linearity		7.68%

NR n77(HPUE)-Linearity Data for Body-worn Ant5			NR n77(HPUE)-Linearity Data for Body-worn Ant7		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.410	0.421	Reported 1g SAR (W/kg)	0.429	0.419
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.409		Linearity SAR (W/kg)	0.428	
% deviation from expected linearity		2.93%	% deviation from expected linearity		-2.10%
NR n77(HPUE)-Linearity Data for Extremity Ant4			NR n77(HPUE)-Linearity Data for Extremity Ant5		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	0.803	0.834	Reported 10g SAR (W/kg)	0.619	0.627
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.801		Linearity SAR (W/kg)	0.618	
% deviation from expected linearity		4.11%	% deviation from expected linearity		1.53%

NR n77(HPUE)-Linearity Data for Body-worn Ant8		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.20	24.20
Reported 1g SAR (W/kg)	0.355	0.342
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	131.83	131.51
Linearity SAR (W/kg)	0.354	
% deviation from expected linearity		-3.43%
NR n77(HPUE)-Linearity Data for Extremity Ant7		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	0.695	0.678
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.693	
% deviation from expected linearity		-2.21%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
2.	WWAN + 5GHz WLAN	Yes	Yes	Yes	Yes
3.	WWAN + 6GHz WLAN	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
6.	6GHz WLAN + Bluetooth	Yes	Yes		Yes
7.	5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
8.	6GHz WLAN + 2.4GHz WLAN	Yes	Yes		Yes
9.	WWAN + 5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
10.	WWAN + 6GHz WLAN + Bluetooth	Yes	Yes		Yes
11.	WWAN +5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
12.	WWAN +6GHz WLAN + 2.4GHz WLAN	Yes	Yes		Yes
13.	WWAN + 2.4GHz WLAN+NFC				Yes
14.	WWAN + 5GHz WLAN+NFC				Yes
15.	WWAN + 6GHz WLAN+NFC				Yes
16.	WWAN + Bluetooth + NFC				Yes
17.	5GHz WLAN + Bluetooth + NFC				Yes
18.	6GHz WLAN + Bluetooth + NFC				Yes
19.	5GHz WLAN + 2.4GHz WLAN + NFC				Yes
20.	6GHz WLAN + 2.4GHz WLAN + NFC				Yes
21.	WWAN +5GHz WLAN + Bluetooth + NFC				Yes
22.	WWAN +6GHz WLAN + Bluetooth + NFC				Yes
23.	WWAN +5GHz WLAN + 2.4GHz WLAN+NFC				Yes
24.	WWAN +6GHz WLAN + 2.4GHz WLAN+NFC				Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed SAR exposure limit. Therefore, simultaneous transmission compliance between 4G+5G NR operations within an antenna group is demonstrated in the Part 2 Report during algorithm validation.
- This device WLAN 2.4GHz support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only). WLAN 6GHz has no hotspot function.
- According to the EUT characteristic, WLAN 2.4GHz and Bluetooth cannot transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz cannot transmit simultaneously.
- Bluetooth BR/EDR standalone SAR summed together as Bluetooth BR/EDR MIMO SAR.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
- The equipment under test (EUT) contains the Qualcomm modems supporting 2G/3G/4G/5G technologies and WLAN/BT technologies. these modems are always enabled with Qualcomm Smart Transmit feature to control and

manage transmitting power in real time and to ensure the time-averaged RF exposure follows the FCC requirement. Smart Transmit algorithm controls the total RF exposure from all WWAN/WLAN/BT to not exceed FCC limit and each antenna group has controlled the total RF exposure from all transmitter to not exceed FCC limit. Therefore, in Part.1 report, it is evaluated whether the sum of the groups of each antenna does not exceed FCC limit or spatial separation is applied. In addition, each antenna needs to satisfy simultaneous transmission analysis with External radios (NFC) in this report at extremity exposure condition.

17. The maximum SAR summation is calculated based on the same configuration and test position.
18. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - v) The SPLSR calculated results please refer to section 17.7.
19. Since the WPT will only operate on body condition, therefore, WPT transmit with WWAN/WLAN/BT only consider at hotspot / body-worn/extremity conditions, the further Sim-Tx analysis include in section 17.6.
20. The simultaneous transmission analysis, considering UWB power is very smaller and no risk, the contribution of UWB to the total TER can be neglected.

17.1 Sub6 Antenna Groups

The Qualcomm® Smart Transmit™ Plus of Smart Transmit (GEN2) Feature 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: Demonstrate that Sum of maximum reported SAR from each of the sub6 AGs and the reported normalized SAR values from radios outside Smart Transmit should be 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:

Antenna Group 0 (AG0)	ANT1 & ANT4 & ANT5 & ANT6 & ANT7 & ANT3
Antenna Group 1 (AG1)	ANT0 & ANT2 & ANT8

- 3) This model's multi_Tx_factor is 1.0.

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: $\{ [\text{max.SAR.AG0} + \text{max.SAR.AG1}] + \text{each external radio worst-case reported SAR (ex: NFC)} \} \leq 1.6$ (for 1g, or 4.0 for 10g). (each external radio worst-case reported SAR is the worst SAR in all combinations of each external radio 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 sub6g 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: $\{ \text{max.SAR.AG0} + \text{worst-case reported SAR} \} \leq 1.6$ and $\{ \text{max.SAR.AG1} + \text{worst-case reported SAR} \} \leq 1.6$ for compliance demonstration (for 1g, or 4.0 for 10g).
- iv) 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 WIFI/BT antennas supported Smart Transmit technology and there is no other radios in this report, and demonstrate that the sum of these RF exposures meets: $\{ [\text{max.SAR.AG0} + \text{max.SAR.AG1}] \} \leq 1.6$ (for 1g, or 4.0 for 10g).

For summed SAR results and SPLSR detailed analysis please refer to section 17.2 / 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.

17.2 Head Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant1	Ant4	Ant5	Ant6	Ant7	Bluetooth Ant3	Bluetooth Ant6	Bluetooth Ant3+6	WLAN2.4GHz Ant3+6	WLAN5GHz Ant4+5	WLAN6GHz Ant4+5	MAX
Right Cheek	1.295	0.788	0.327	0.722	1.299	0.149	0.651	0.800	0.765	0.459	0.609	1.299
Right Tilted	1.257	1.009	0.300	0.178	0.392	0.194	0.166	0.360	0.545	0.579	0.667	1.257
Left Cheek	0.632	1.293	1.296	1.275	0.382	0.140	1.289	1.429	1.441	1.138	0.805	1.441
Left Tilted	0.657	1.104	0.990	0.425	0.150	0.354	0.379	0.733	1.085	1.169	1.036	1.169

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant2	Ant8	MAX
Right Cheek	0.181	0.192	0.381	0.381
Right Tilted	0.130	0.129	0.145	0.145
Left Cheek	0.311	0.163	0.254	0.311
Left Tilted	0.161	0.153	0.227	0.227

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

Test Position	AG0	AG1	AG0+AG worse case Summed 1g SAR (W/kg)
	1g SAR (W/kg)	1g SAR (W/kg)	
Right Cheek	1.299	0.381	1.68
Right Tilted	1.257	0.145	1.40
Left Cheek	1.441	0.311	1.75
Left Tilted	1.169	0.227	1.40

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

Right Cheek				
Ant combination	AG1	AG0	AG0+AG1 worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.181	1.295	1.48	-
Ant0-Ant4	0.181	0.788	0.97	-
Ant0-Ant5	0.181	0.327	0.51	-
Ant0-Ant6	0.181	0.722	0.90	-
Ant0-Ant7	0.181	1.299	1.48	-
Ant0-Bluetooth Ant3	0.181	0.149	0.33	-
Ant0-Bluetooth Ant6	0.181	0.651	0.83	-
Ant0-Bluetooth Ant3+6	0.181	0.800	0.98	-
Ant0-WLAN2.4GHz Ant3+6	0.181	0.765	0.95	-
Ant0-WLAN5GHz Ant4+5	0.181	0.459	0.64	-
Ant0-WLAN6GHz Ant4+5	0.181	0.609	0.79	-
Ant2-Ant1	0.192	1.295	1.49	-
Ant2-Ant4	0.192	0.788	0.98	-
Ant2-Ant5	0.192	0.327	0.52	-
Ant2-Ant6	0.192	0.722	0.91	-
Ant2-Ant7	0.192	1.299	1.49	-
Ant2-Bluetooth Ant3	0.192	0.149	0.34	-
Ant2-Bluetooth Ant6	0.192	0.651	0.84	-
Ant2-Bluetooth Ant3+6	0.192	0.800	0.99	-
Ant2-WLAN2.4GHz Ant3+6	0.192	0.765	0.96	-
Ant2-WLAN5GHz Ant4+5	0.192	0.459	0.65	-



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Ant2-WLAN6GHz Ant4+5	0.192	0.609	0.80	-
Ant8-Ant1	0.381	1.295	1.68	Case 1
Ant8-Ant4	0.381	0.788	1.17	-
Ant8-Ant5	0.381	0.327	0.71	-
Ant8-Ant6	0.381	0.722	1.10	-
Ant8-Ant7	0.381	1.299	1.68	Case 2
Ant8-Bluetooth Ant3	0.381	0.149	0.53	-
Ant8-Bluetooth Ant6	0.381	0.651	1.03	-
Ant8-Bluetooth Ant3+6	0.381	0.800	1.18	-
Ant8-WLAN2.4GHz Ant3+6	0.381	0.765	1.15	-
Ant8-WLAN5GHz Ant4+5	0.381	0.459	0.84	-
Ant8-WLAN6GHz Ant4+5	0.381	0.609	0.99	-

Left Cheek				
Ant combination	AG1	AG0	AG0+AG1 worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.311	0.632	0.94	-
Ant0-Ant4	0.311	1.293	1.60	Case 3
Ant0-Ant5	0.311	1.296	1.61	Case 4
Ant0-Ant6	0.311	1.275	1.59	-
Ant0-Ant7	0.311	0.382	0.69	-
Ant0-Bluetooth Ant3	0.311	0.140	0.45	-
Ant0-Bluetooth Ant6	0.311	1.289	1.60	Case 5
Ant0-Bluetooth Ant3+6	0.311	1.429	1.74	Case 9
Ant0-WLAN2.4GHz Ant3+6	0.311	1.441	1.75	Case 6
Ant0-WLAN5GHz Ant4+5	0.311	1.138	1.45	-
Ant0-WLAN6GHz Ant4+5	0.311	0.805	1.12	-
Ant2-Ant1	0.163	0.632	0.80	-
Ant2-Ant4	0.163	1.293	1.46	-
Ant2-Ant5	0.163	1.296	1.46	-
Ant2-Ant6	0.163	1.275	1.44	-
Ant2-Ant7	0.163	0.382	0.55	-
Ant2-Bluetooth Ant3	0.163	0.140	0.30	-
Ant2-Bluetooth Ant6	0.163	1.289	1.45	-
Ant2-Bluetooth Ant3+6	0.163	1.429	1.59	-
Ant2-WLAN2.4GHz Ant3+6	0.163	1.441	1.60	Case 7
Ant2-WLAN5GHz Ant4+5	0.163	1.138	1.30	-
Ant2-WLAN6GHz Ant4+5	0.163	0.805	0.97	-
Ant8-Ant1	0.254	0.632	0.89	-
Ant8-Ant4	0.254	1.293	1.55	-
Ant8-Ant5	0.254	1.296	1.55	-
Ant8-Ant6	0.254	1.275	1.53	-
Ant8-Ant7	0.254	0.382	0.64	-
Ant8-Bluetooth Ant3	0.254	0.140	0.39	-
Ant8-Bluetooth Ant6	0.254	1.289	1.54	-
Ant8-Bluetooth Ant3+6	0.254	1.429	1.68	Case 10
Ant8-WLAN2.4GHz Ant3+6	0.254	1.441	1.70	Case 8
Ant8-WLAN5GHz Ant4+5	0.254	1.138	1.39	-
Ant8-WLAN6GHz Ant4+5	0.254	0.805	1.06	-

17.3 Hotspot Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant1	Ant4	Ant5	Ant6	Ant7	Bluetooth Ant3	Bluetooth Ant6	Bluetooth Ant6+3	WLAN2.4GHz Ant3+6	WLAN5GHz Ant4+5	MAX
Front	0.895	0.521	0.860	0.546	0.807	0.303	0.604	0.907	0.568	0.620	0.907
Back	1.296	0.581	0.865	0.606	0.846	0.254	0.829	1.083	0.689	0.773	1.296
Left Side	1.296	0.063	0.031	0.047	1.298					0.124	1.298
Right Side	0.152	0.242	1.296	1.293	0.038	0.135	1.258	1.393	1.442	1.178	1.442
Top Side	1.243	1.280	0.631	0.143	0.095	0.529	0.142	0.671	0.657	0.716	1.280

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant2	Ant8	MAX
Front	0.935	1.012	0.682	1.012
Back	1.296	1.123	0.629	1.296
Left Side	1.285	0.448	0.003	1.285
Right Side	0.147	0.602	1.293	1.293
Bottom Side	0.916	1.295	0.094	1.295

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

Test Position	AG0	AG1	AG0+AG1 worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.907	1.012	1.92
Back	1.296	1.296	2.59
Left Side	1.298	1.285	2.58
Right Side	1.442	1.293	2.74
Top Side	1.280		1.28
Bottom Side		1.295	1.30

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

Front				
Ant combination	AG1	AG0	AG0+AG1 worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.935	0.895	1.83	Case 1
Ant0-Ant4	0.935	0.521	1.46	-
Ant0-Ant5	0.935	0.860	1.80	Case 2
Ant0-Ant6	0.935	0.546	1.48	-
Ant0-Ant7	0.935	0.807	1.74	Case 3
Ant0-Bluetooth Ant3	0.935	0.303	1.24	-
Ant0-Bluetooth Ant6	0.935	0.604	1.54	-
Ant0-Bluetooth Ant6+3	0.935	0.907	1.84	Case 40
Ant0-WLAN2.4GHz Ant3+6	0.935	0.568	1.50	-
Ant0-WLAN5GHz Ant4+5	0.935	0.620	1.56	-
Ant2-Ant1	1.012	0.895	1.91	Case 4
Ant2-Ant4	1.012	0.521	1.53	-
Ant2-Ant5	1.012	0.860	1.87	Case 5
Ant2-Ant6	1.012	0.546	1.56	-
Ant2-Ant7	1.012	0.807	1.82	Case 6
Ant2-Bluetooth Ant3	1.012	0.303	1.32	-
Ant2-Bluetooth Ant6	1.012	0.604	1.62	Case 7
Ant2-Bluetooth Ant6+3	1.012	0.907	1.92	Case 41

Ant2-WLAN2.4GHz Ant3+6	1.012	0.568	1.58	-
Ant2-WLAN5GHz Ant4+5	1.012	0.620	1.63	Case 8
Ant8-Ant1	0.682	0.895	1.58	-
Ant8-Ant4	0.682	0.521	1.20	-
Ant8-Ant5	0.682	0.860	1.54	-
Ant8-Ant6	0.682	0.546	1.23	-
Ant8-Ant7	0.682	0.807	1.49	-
Ant8-Bluetooth Ant3	0.682	0.303	0.99	-
Ant8-Bluetooth Ant6	0.682	0.604	1.29	-
Ant8-Bluetooth Ant6+3	0.682	0.907	1.59	-
Ant8-WLAN2.4GHz Ant3+6	0.682	0.568	1.25	-
Ant8-WLAN5GHz Ant4+5	0.682	0.620	1.30	-

Back				
Ant combination	AG1	AG0	AG0+AG1 worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	1.296	1.296	2.59	Case 9
Ant0-Ant4	1.296	0.581	1.88	Case 10
Ant0-Ant5	1.296	0.865	2.16	Case 11
Ant0-Ant6	1.296	0.606	1.90	Case 12
Ant0-Ant7	1.296	0.846	2.14	Case 13
Ant0-Bluetooth Ant3	1.296	0.254	1.55	-
Ant0-Bluetooth Ant6	1.296	0.829	2.13	Case 14
Ant0-Bluetooth Ant6+3	1.296	1.083	2.38	Case 42
Ant0-WLAN2.4GHz Ant3+6	1.296	0.689	1.99	Case 15
Ant0-WLAN5GHz Ant4+5	1.296	0.773	2.07	Case 16
Ant2-Ant1	1.123	1.296	2.42	Case 17
Ant2-Ant4	1.123	0.581	1.70	Case 18
Ant2-Ant5	1.123	0.865	1.99	Case 19
Ant2-Ant6	1.123	0.606	1.73	Case 20
Ant2-Ant7	1.123	0.846	1.97	Case 21
Ant2-Bluetooth Ant3	1.123	0.254	1.38	-
Ant2-Bluetooth Ant6	1.123	0.829	1.95	Case 22
Ant2-Bluetooth Ant6+3	1.123	1.083	2.21	Case 43
Ant2-WLAN2.4GHz Ant3+6	1.123	0.689	1.81	Case 23
Ant2-WLAN5GHz Ant4+5	1.123	0.773	1.90	Case 24
Ant8-Ant1	0.629	1.296	1.93	Case 25
Ant8-Ant4	0.629	0.581	1.21	-
Ant8-Ant5	0.629	0.865	1.49	-
Ant8-Ant6	0.629	0.606	1.24	-
Ant8-Ant7	0.629	0.846	1.48	-
Ant8-Bluetooth Ant3	0.629	0.254	0.88	-
Ant8-Bluetooth Ant6	0.629	0.829	1.46	-
Ant8-Bluetooth Ant6+3	0.629	1.083	1.71	Case 44
Ant8-WLAN2.4GHz Ant3+6	0.629	0.689	1.32	-
Ant8-WLAN5GHz Ant4+5	0.629	0.773	1.40	-

Left Side				
Ant combination	AG1	AG0	AG0+AG1 worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	1.285	1.296	2.58	Case 26
Ant0-Ant4	1.285	0.063	1.35	-
Ant0-Ant5	1.285	0.031	1.32	-
Ant0-Ant6	1.285	0.047	1.33	-
Ant0-Ant7	1.285	1.298	2.58	Case 27
Ant0-Bluetooth Ant3	1.285		1.29	-
Ant0-Bluetooth Ant6	1.285		1.29	-
Ant0-WLAN2.4GHz Ant3+6	1.285		1.29	-
Ant0-WLAN5GHz Ant4+5	1.285	0.124	1.41	-
Ant2-Ant1	0.448	1.296	1.74	Case 28
Ant2-Ant4	0.448	0.063	0.51	-
Ant2-Ant5	0.448	0.031	0.48	-
Ant2-Ant6	0.448	0.047	0.50	-
Ant2-Ant7	0.448	1.298	1.75	Case 29
Ant2-Bluetooth Ant3	0.448		0.45	-
Ant2-Bluetooth Ant6	0.448		0.45	-
Ant2-WLAN2.4GHz Ant3+6	0.448		0.45	-
Ant2-WLAN5GHz Ant4+5	0.448	0.124	0.57	-
Ant8-Ant1	0.003	1.296	1.30	-
Ant8-Ant4	0.003	0.063	0.07	-
Ant8-Ant5	0.003	0.031	0.03	-
Ant8-Ant6	0.003	0.047	0.05	-
Ant8-Ant7	0.003	1.298	1.30	-
Ant8-Bluetooth Ant3	0.003		0.00	-
Ant8-Bluetooth Ant6	0.003		0.00	-
Ant8-WLAN2.4GHz Ant3+6	0.003		0.00	-
Ant8-WLAN5GHz Ant4+5	0.003	0.124	0.13	-

Right Side				
Ant combination	AG1	AG0	AG0+AG1 worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.147	0.152	0.30	-
Ant0-Ant4	0.147	0.242	0.39	-
Ant0-Ant5	0.147	1.296	1.44	-
Ant0-Ant6	0.147	1.293	1.44	-
Ant0-Ant7	0.147	0.038	0.19	-
Ant0-Bluetooth Ant3	0.147	0.135	0.28	-
Ant0-Bluetooth Ant6	0.147	1.258	1.41	-
Ant0-Bluetooth Ant6+3	0.147	1.393	1.54	-
Ant0-WLAN2.4GHz Ant3+6	0.147	1.442	1.59	-
Ant0-WLAN5GHz Ant4+5	0.147	1.178	1.33	-
Ant2-Ant1	0.602	0.152	0.75	-
Ant2-Ant4	0.602	0.242	0.84	-
Ant2-Ant5	0.602	1.296	1.90	Case 30
Ant2-Ant6	0.602	1.293	1.90	Case 31
Ant2-Ant7	0.602	0.038	0.64	-
Ant2-Bluetooth Ant3	0.602	0.135	0.74	-
Ant2-Bluetooth Ant6	0.602	1.258	1.86	Case 32



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Ant2-Bluetooth Ant6+3	0.602	1.393	2.00	Case 45
Ant2-WLAN2.4GHz Ant3+6	0.602	1.442	2.04	Case 33
Ant2-WLAN5GHz Ant4+5	0.602	1.178	1.78	Case 34
Ant8-Ant1	1.293	0.152	1.45	-
Ant8-Ant4	1.293	0.242	1.54	-
Ant8-Ant5	1.293	1.296	2.59	Case 35
Ant8-Ant6	1.293	1.293	2.59	Case 36
Ant8-Ant7	1.293	0.038	1.33	-
Ant8-Bluetooth Ant3	1.293	0.135	1.43	-
Ant8-Bluetooth Ant6	1.293	1.258	2.55	Case 37
Ant8-Bluetooth Ant6+3	1.293	1.393	2.69	Case 46
Ant8-WLAN2.4GHz Ant3+6	1.293	1.442	2.74	Case 38
Ant8-WLAN5GHz Ant4+5	1.293	1.178	2.47	Case 39

17.4 Body-Worn Accessory Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant1	Ant4	Ant5	Ant6	Ant7	Bluetooth Ant3	Bluetooth Ant6	Bluetooth Ant6+3	WLAN2.4GHz Ant3+6	WLAN5GHz Ant4+5	WLAN6GHz Ant4+5	MAX
Front	0.895	1.103	1.286	1.014	1.221	0.194	0.701	0.895	0.752	0.753	0.167	1.286
Back	1.296	1.229	1.286	1.124	1.282	0.230	0.961	1.191	1.259	1.161	0.681	1.296

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant2	Ant8	MAX
Front	1.024	1.247	1.284	1.284
Back	1.296	1.296	1.184	1.296

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

Test Position	AG0	AG1	AG0+AG worse case Summed 1g SAR (W/kg)
Front 5mm	1.286	1.284	2.57
Back 5mm	1.296	1.296	2.59

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

Front				
Ant combination	AG1	AG0	AG0+AG worse case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	1.024	0.895	1.92	Case 1
Ant0-Ant4	1.024	1.103	2.13	Case 2
Ant0-Ant5	1.024	1.286	2.31	Case 3
Ant0-Ant6	1.024	1.014	2.04	Case 4
Ant0-Ant7	1.024	1.221	2.25	Case 5
Ant0-Bluetooth Ant3	1.024	0.194	1.22	-
Ant0-Bluetooth Ant6	1.024	0.701	1.73	Case 6
Ant0-Bluetooth Ant6+3	1.024	0.895	1.92	Case 52
Ant0-WLAN2.4GHz Ant3+6	1.024	0.752	1.78	Case 7
Ant0-WLAN5GHz Ant4+5	1.024	0.753	1.78	Case 8
Ant0-WLAN6GHz Ant4+5	1.024	0.167	1.19	-
Ant2-Ant1	1.247	0.895	2.14	Case 9
Ant2-Ant4	1.247	1.103	2.35	Case 10
Ant2-Ant5	1.247	1.286	2.53	Case 11
Ant2-Ant6	1.247	1.014	2.26	Case 12
Ant2-Ant7	1.247	1.221	2.47	Case 13
Ant2-Bluetooth Ant3	1.247	0.194	1.44	-
Ant2-Bluetooth Ant6	1.247	0.701	1.95	Case 14
Ant2-Bluetooth Ant6+3	1.247	0.895	2.14	Case 53
Ant2-WLAN2.4GHz Ant3+6	1.247	0.752	2.00	Case 15
Ant2-WLAN5GHz Ant4+5	1.247	0.753	2.00	Case 16
Ant2-WLAN6GHz Ant4+5	1.247	0.167	1.41	-
Ant8-Ant1	1.284	0.895	2.18	Case 17
Ant8-Ant4	1.284	1.103	2.39	Case 18
Ant8-Ant5	1.284	1.286	2.57	Case 19
Ant8-Ant6	1.284	1.014	2.30	Case 20
Ant8-Ant7	1.284	1.221	2.51	Case 21
Ant8-Bluetooth Ant3	1.284	0.194	1.48	-
Ant8-Bluetooth Ant6	1.284	0.701	1.99	Case 22
Ant8-Bluetooth Ant6+3	1.284	0.895	2.18	Case 54
Ant8-WLAN2.4GHz Ant3+6	1.284	0.752	2.04	Case 23
Ant8-WLAN5GHz Ant4+5	1.284	0.753	2.04	Case 24
Ant8-WLAN6GHz Ant4+5	1.284	0.167	1.45	-

Back				
Ant combination	AG1	AG0	AG0+AG1 worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	1.296	1.296	2.59	Case 25
Ant0-Ant4	1.296	1.229	2.53	Case 26
Ant0-Ant5	1.296	1.286	2.58	Case 27
Ant0-Ant6	1.296	1.124	2.42	Case 28
Ant0-Ant7	1.296	1.282	2.58	Case 29
Ant0-Bluetooth Ant3	1.296	0.230	1.53	-
Ant0-Bluetooth Ant6	1.296	0.961	2.26	Case 30
Ant0-Bluetooth Ant6+3	1.296	1.191	2.49	Case 55
Ant0-WLAN2.4GHz Ant3+6	1.296	1.259	2.56	Case 31
Ant0-WLAN5GHz Ant4+5	1.296	1.161	2.46	Case 32
Ant0-WLAN6GHz Ant4+5	1.296	0.681	1.98	Case 33
Ant2-Ant1	1.296	1.296	2.59	Case 34
Ant2-Ant4	1.296	1.229	2.53	Case 35
Ant2-Ant5	1.296	1.286	2.58	Case 36
Ant2-Ant6	1.296	1.124	2.42	Case 37
Ant2-Ant7	1.296	1.282	2.58	Case 38
Ant2-Bluetooth Ant3	1.296	0.230	1.53	-
Ant2-Bluetooth Ant6	1.296	0.961	2.26	Case 39
Ant2-Bluetooth Ant6+3	1.296	1.191	2.49	Case 56
Ant2-WLAN2.4GHz Ant3+6	1.296	1.259	2.56	Case 40
Ant2-WLAN5GHz Ant4+5	1.296	1.161	2.46	Case 41
Ant2-WLAN6GHz Ant4+5	1.296	0.681	1.98	Case 42
Ant8-Ant1	1.184	1.296	2.48	Case 43
Ant8-Ant4	1.184	1.229	2.41	Case 44
Ant8-Ant5	1.184	1.286	2.47	Case 45
Ant8-Ant6	1.184	1.124	2.31	Case 46
Ant8-Ant7	1.184	1.282	2.47	Case 47
Ant8-Bluetooth Ant3	1.184	0.230	1.41	-
Ant8-Bluetooth Ant6	1.184	0.961	2.15	Case 48
Ant8-Bluetooth Ant6+3	1.184	1.191	2.38	Case 57
Ant8-WLAN2.4GHz Ant3+6	1.184	1.259	2.44	Case 49
Ant8-WLAN5GHz Ant4+5	1.184	1.161	2.35	Case 50
Ant8-WLAN6GHz Ant4+5	1.184	0.681	1.87	Case 51

<Sensor off>

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant1	Ant5	Ant6	Ant7	WLAN5GHz Ant4+5	WLAN6GHz Ant4+5	MAX
Front	0.745	0.421	0.486	0.438	0.551	0.162	0.745
Back	0.783	0.357	0.343	0.438	0.380	0.265	0.783

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant2	Ant8	MAX
Front	0.388	0.553	0.355	0.553
Back	0.355	0.385	0.263	0.385

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

Test Position	AG0	AG1	AG0+AG1 worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.745	0.553	1.30
Back	0.783	0.385	1.17

17.5 Product specific 10g SAR Exposure Conditions

Remark:

- For WLAN2.4G/Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT+NFC:
<AG0 maximum reported SAR>:

Test Position	Ant1	Ant4	Ant5	Ant6	Ant7	Bluetooth Ant6	WLAN2.4GHz Ant3+6	WLAN5GHz Ant4+5	WLAN6GHz Ant4+5	MAX
Front	2.426		1.969	1.664	2.754			1.941	0.348	2.754
Back	3.204	0.351	0.515	0.818	3.188		0.899	0.587	0.116	3.204
Left Side	2.429				2.970			0.521	0.019	2.970
Right Side			3.155	3.144		2.420	3.164	3.091	0.709	3.164
Top Side	3.188	3.176	1.868					2.692	0.423	3.188

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant2	Ant8	MAX
Front	2.901	3.190	2.497	3.190
Back	3.159	3.179	1.427	3.179
Left Side	1.976			1.976
Right Side		0.785	3.168	3.168
Bottom Side		3.184		3.184

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

Test Position	AG0	AG1	NFC	AG0+AG1 worse case+NFC
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)
Front 0mm	2.754	3.190	0.002	5.95
Back 0mm	3.204	3.179	0.007	6.39
Left Side 0mm	2.970	1.976	0.001	4.95
Right Side 0mm	3.164	3.168	0.001	6.33
Top Side 0mm	3.188		0.001	3.19
Bottom Side 0mm		3.184	0.001	3.19

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

Front					
Ant combination	AG1	AG0	NFC	AG0+AG1 worst case+NFC	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Ant0-Ant1	2.901	2.426	0.002	5.33	Case 1
Ant0-Ant4	2.901		0.002	2.90	-
Ant0-Ant5	2.901	1.969	0.002	4.87	Case 2
Ant0-Ant6	2.901	1.664	0.002	4.57	Case 3
Ant0-Ant7	2.901	2.754	0.002	5.66	Case 4
Ant0-Bluetooth Ant6	2.901		0.002	2.90	-
Ant0-WLAN2.4GHz Ant3+6	2.901		0.002	2.90	-
Ant0-WLAN5GHz Ant4+5	2.901	1.941	0.002	4.84	Case 5
Ant0-WLAN6GHz Ant4+5	2.901	0.348	0.002	3.25	-
Ant2-Ant1	3.190	2.426	0.002	5.62	Case 6
Ant2-Ant4	3.190		0.002	3.19	-
Ant2-Ant5	3.190	1.969	0.002	5.16	Case 7



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Ant2-Ant6	3.190	1.664	0.002	4.86	Case 8
Ant2-Ant7	3.190	2.754	0.002	5.95	Case 9
Ant2-Bluetooth Ant6	3.190		0.002	3.19	-
Ant2-WLAN2.4GHz Ant3+6	3.190		0.002	3.19	-
Ant2-WLAN5GHz Ant4+5	3.190	1.941	0.002	5.13	Case 10
Ant2-WLAN6GHz Ant4+5	3.190	0.348	0.002	3.54	-
Ant8-Ant1	2.497	2.426	0.002	4.93	Case 11
Ant8-Ant4	2.497		0.002	2.50	-
Ant8-Ant5	2.497	1.969	0.002	4.47	Case 12
Ant8-Ant6	2.497	1.664	0.002	4.16	Case 13
Ant8-Ant7	2.497	2.754	0.002	5.25	Case 14
Ant8-Bluetooth Ant6	2.497		0.002	2.50	-
Ant8-WLAN2.4GHz Ant3+6	2.497		0.002	2.50	-
Ant8-WLAN5GHz Ant4+5	2.497	1.941	0.002	4.44	Case 15
Ant8-WLAN6GHz Ant4+5	2.497	0.348	0.002	2.85	-

Back					
Ant combination	AG1	AG0	NFC	AG0+AG1 worst case+NFC	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Ant0-Ant1	3.159	3.204	0.007	6.37	Case 16
Ant0-Ant4	3.159	0.351	0.007	3.52	-
Ant0-Ant5	3.159	0.515	0.007	3.68	-
Ant0-Ant6	3.159	0.818	0.007	3.98	-
Ant0-Ant7	3.159	3.188	0.007	6.35	Case 17
Ant0-Bluetooth Ant6	3.159		0.007	3.17	-
Ant0-WLAN2.4GHz Ant3+6	3.159	0.899	0.007	4.07	Case 18
Ant0-WLAN5GHz Ant4+5	3.159	0.587	0.007	3.75	-
Ant0-WLAN6GHz Ant4+5	3.159	0.116	0.007	3.28	-
Ant2-Ant1	3.179	3.204	0.007	6.39	Case 19
Ant2-Ant4	3.179	0.351	0.007	3.54	-
Ant2-Ant5	3.179	0.515	0.007	3.70	-
Ant2-Ant6	3.179	0.818	0.007	4.00	Case 20
Ant2-Ant7	3.179	3.188	0.007	6.37	Case 21
Ant2-Bluetooth Ant6	3.179		0.007	3.19	-
Ant2-WLAN2.4GHz Ant3+6	3.179	0.899	0.007	4.09	Case 22
Ant2-WLAN5GHz Ant4+5	3.179	0.587	0.007	3.77	-
Ant2-WLAN6GHz Ant4+5	3.179	0.116	0.007	3.30	-
Ant8-Ant1	1.427	3.204	0.007	4.64	Case 23
Ant8-Ant4	1.427	0.351	0.007	1.79	-
Ant8-Ant5	1.427	0.515	0.007	1.95	-
Ant8-Ant6	1.427	0.818	0.007	2.25	-
Ant8-Ant7	1.427	3.188	0.007	4.62	Case 24
Ant8-Bluetooth Ant6	1.427		0.007	1.43	-
Ant8-WLAN2.4GHz Ant3+6	1.427	0.899	0.007	2.33	-
Ant8-WLAN5GHz Ant4+5	1.427	0.587	0.007	2.02	-
Ant8-WLAN6GHz Ant4+5	1.427	0.116	0.007	1.55	-

Left Side					
Ant combination	AG1	AG0	NFC	AG0+AG1 worst case+NFC	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Ant0-Ant1	1.976	2.429	0.001	4.41	Case 25
Ant0-Ant4	1.976		0.001	1.98	-
Ant0-Ant5	1.976		0.001	1.98	-



Ant0-Ant6	1.976		0.001	1.98	-
Ant0-Ant7	1.976	2.970	0.001	4.95	Case 26
Ant0-Bluetooth Ant6	1.976		0.001	1.98	-
Ant0-WLAN2.4GHz Ant3+6	1.976		0.001	1.98	-
Ant0-WLAN5GHz Ant4+5	1.976	0.521	0.001	2.50	-
Ant0-WLAN6GHz Ant4+5	1.976	0.019	0.001	2.00	-
Ant2-Ant1		2.429	0.001	2.43	-
Ant2-Ant4			0.001	0.00	-
Ant2-Ant5			0.001	0.00	-
Ant2-Ant6			0.001	0.00	-
Ant2-Ant7		2.970	0.001	2.97	-
Ant2-Bluetooth Ant6			0.001	0.00	-
Ant2-WLAN2.4GHz Ant3+6			0.001	0.00	-
Ant2-WLAN5GHz Ant4+5		0.521	0.001	0.52	-
Ant2-WLAN6GHz Ant4+5		0.019	0.001	0.02	-
Ant8-Ant1		2.429	0.001	2.43	-
Ant8-Ant4			0.001	0.00	-
Ant8-Ant5			0.001	0.00	-
Ant8-Ant6			0.001	0.00	-
Ant8-Ant7		2.970	0.001	2.97	-
Ant8-Bluetooth Ant6			0.001	0.00	-
Ant8-WLAN2.4GHz Ant3+6			0.001	0.00	-
Ant8-WLAN5GHz Ant4+5		0.521	0.001	0.52	-
Ant8-WLAN6GHz Ant4+5		0.019	0.001	0.02	-

Right Side					
Ant combination	AG1	AG0	NFC	AG0+AG1 worst case+NFC	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Ant0-Ant1			0.001	0.00	-
Ant0-Ant4			0.001	0.00	-
Ant0-Ant5		3.155	0.001	3.16	-
Ant0-Ant6		3.144	0.001	3.15	-
Ant0-Ant7			0.001	0.00	-
Ant0-Bluetooth Ant6		2.420	0.001	2.42	-
Ant0-WLAN2.4GHz Ant3+6		3.164	0.001	3.17	-
Ant0-WLAN5GHz Ant4+5		3.091	0.001	3.09	-
Ant0-WLAN6GHz Ant4+5		0.709	0.001	0.71	-
Ant2-Ant1	0.785		0.001	0.79	-
Ant2-Ant4	0.785		0.001	0.79	-
Ant2-Ant5	0.785	3.155	0.001	3.94	-
Ant2-Ant6	0.785	3.144	0.001	3.93	-
Ant2-Ant7	0.785		0.001	0.79	-
Ant2-Bluetooth Ant6	0.785	2.420	0.001	3.21	-
Ant2-WLAN2.4GHz Ant3+6	0.785	3.164	0.001	3.95	-
Ant2-WLAN5GHz Ant4+5	0.785	3.091	0.001	3.88	-
Ant2-WLAN6GHz Ant4+5	0.785	0.709	0.001	1.50	-
Ant8-Ant1	3.168		0.001	3.17	-
Ant8-Ant4	3.168		0.001	3.17	-
Ant8-Ant5	3.168	3.155	0.001	6.32	Case 27
Ant8-Ant6	3.168	3.144	0.001	6.31	Case 28
Ant8-Ant7	3.168		0.001	3.17	-
Ant8-Bluetooth Ant6	3.168	2.420	0.001	5.59	Case 29
Ant8-WLAN2.4GHz Ant3+6	3.168	3.164	0.001	6.33	Case 30
Ant8-WLAN5GHz Ant4+5	3.168	3.091	0.001	6.26	Case 31



Ant8-WLAN6GHz Ant4+5	3.168	0.709	0.001	3.88	-
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<Sensor off>

<AG0 maximum reported SAR>:

Test Position	Ant1	Ant4	Ant5	Ant6	Ant7	WLAN5GHz Ant4+5	WLAN6GHz Ant4+5	MAX
Front	1.286		0.367	0.470	0.796	0.399	0.170	1.286
Back	1.632	0.272	0.627	0.784	0.685	0.551	0.113	1.632
Left Side	0.911				0.536			0.911
Right Side			0.328	0.580		0.427	0.150	0.580
Top Side	1.218	0.834	0.472			0.383	0.246	1.218

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant2	MAX
Front	0.355	0.424	0.424
Back	0.248	0.300	0.300
Left Side	0.554		0.554
Right Side			0.000
Bottom Side		0.724	0.724

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

Test Position	AG0	AG1	AG0+AG1 worse case
	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)
Front	1.286	0.424	1.71
Back	1.632	0.300	1.93
Left Side	0.911	0.554	1.47
Right Side	0.580	0.000	0.58
Top Side	1.218		1.22
Bottom Side		0.724	0.72

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

17.6 Total Exposure Ratio

<Total exposure ratio>

Max 1g SAR	WPT SAR	TER
(W/Kg)	(W/Kg)	Reported SAR/1.6 + WPT SAR /1.6 Summation
1.59	0.000000934	0.994

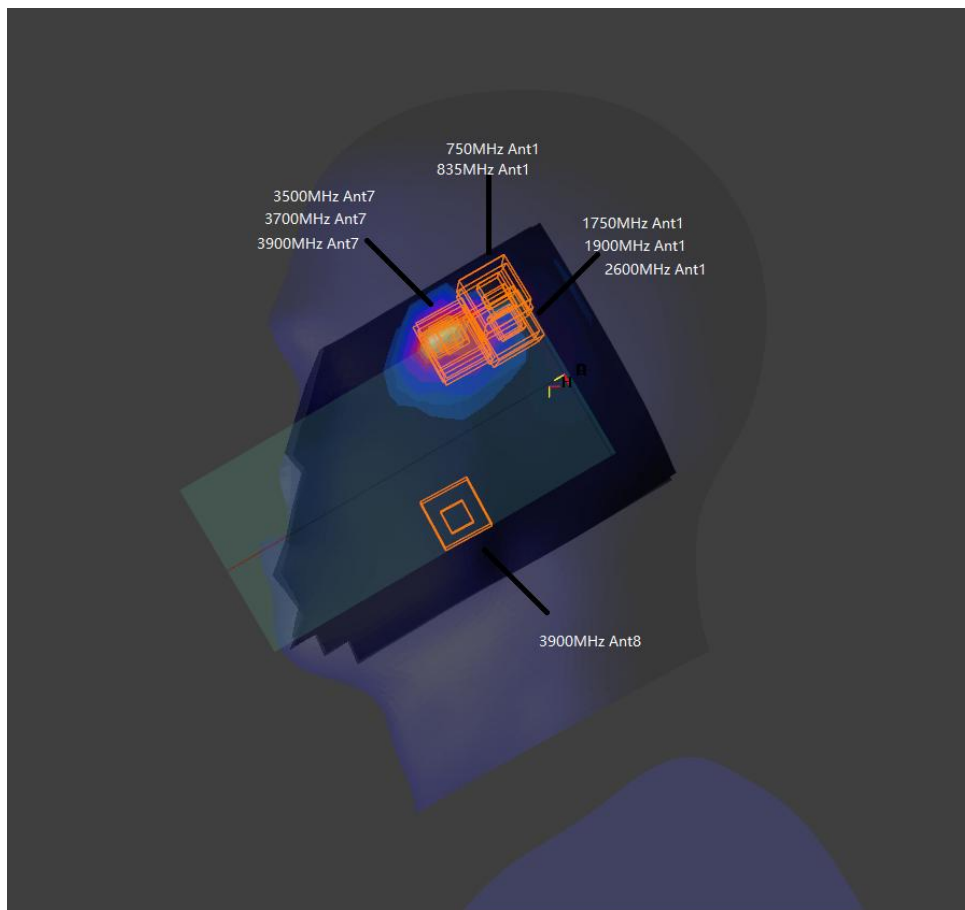
Max 10g SAR	WPT SAR	TER
(W/Kg)	(W/Kg)	Reported SAR/4.0 + WPT SAR /4.0 Summation
3.98	0.000000551	0.995

Remark: WPT SAR value is from another WPT SAR report which is submitted separately.

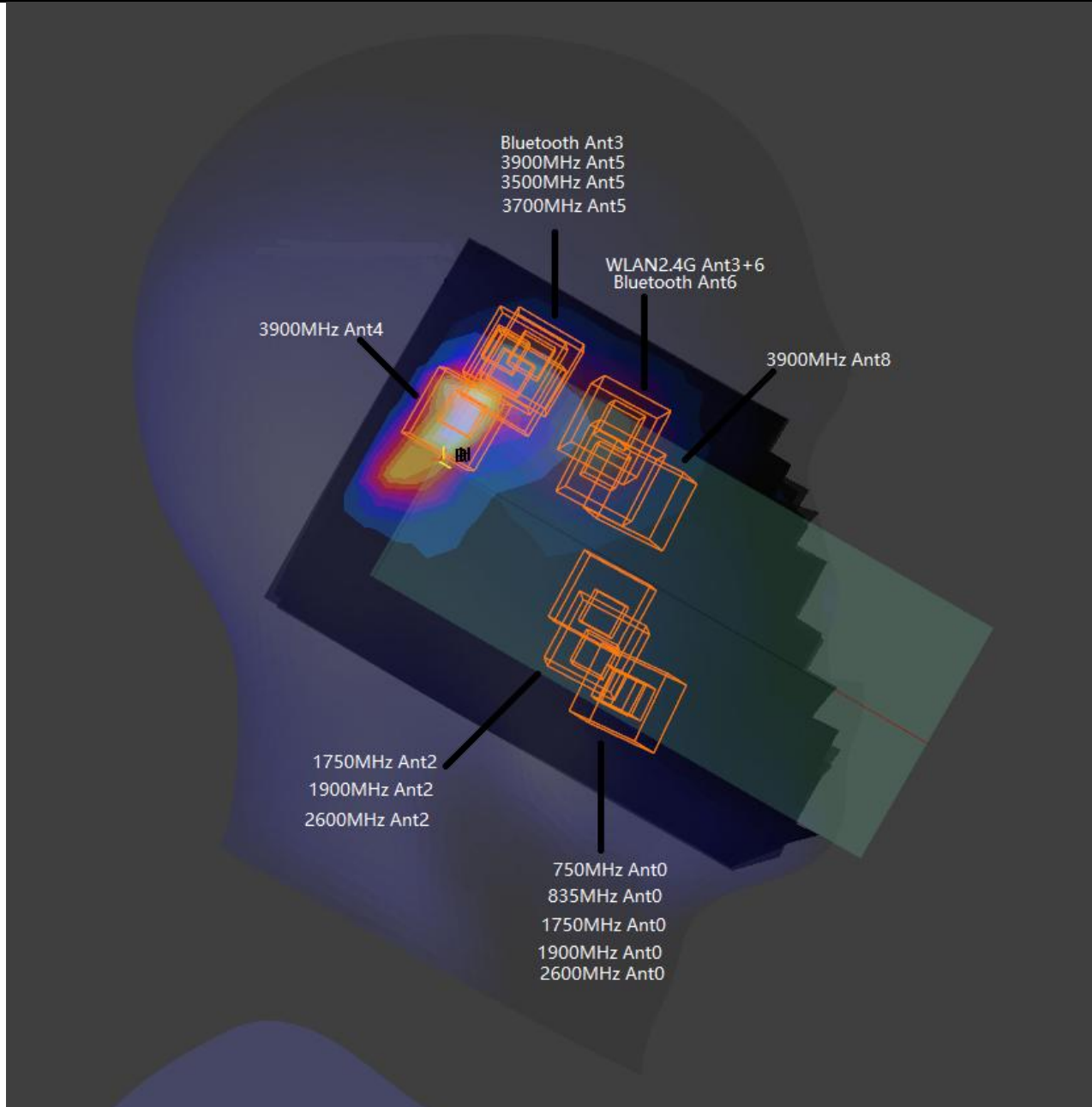
17.7 SPLSR Evaluation and Analysis

General Note:

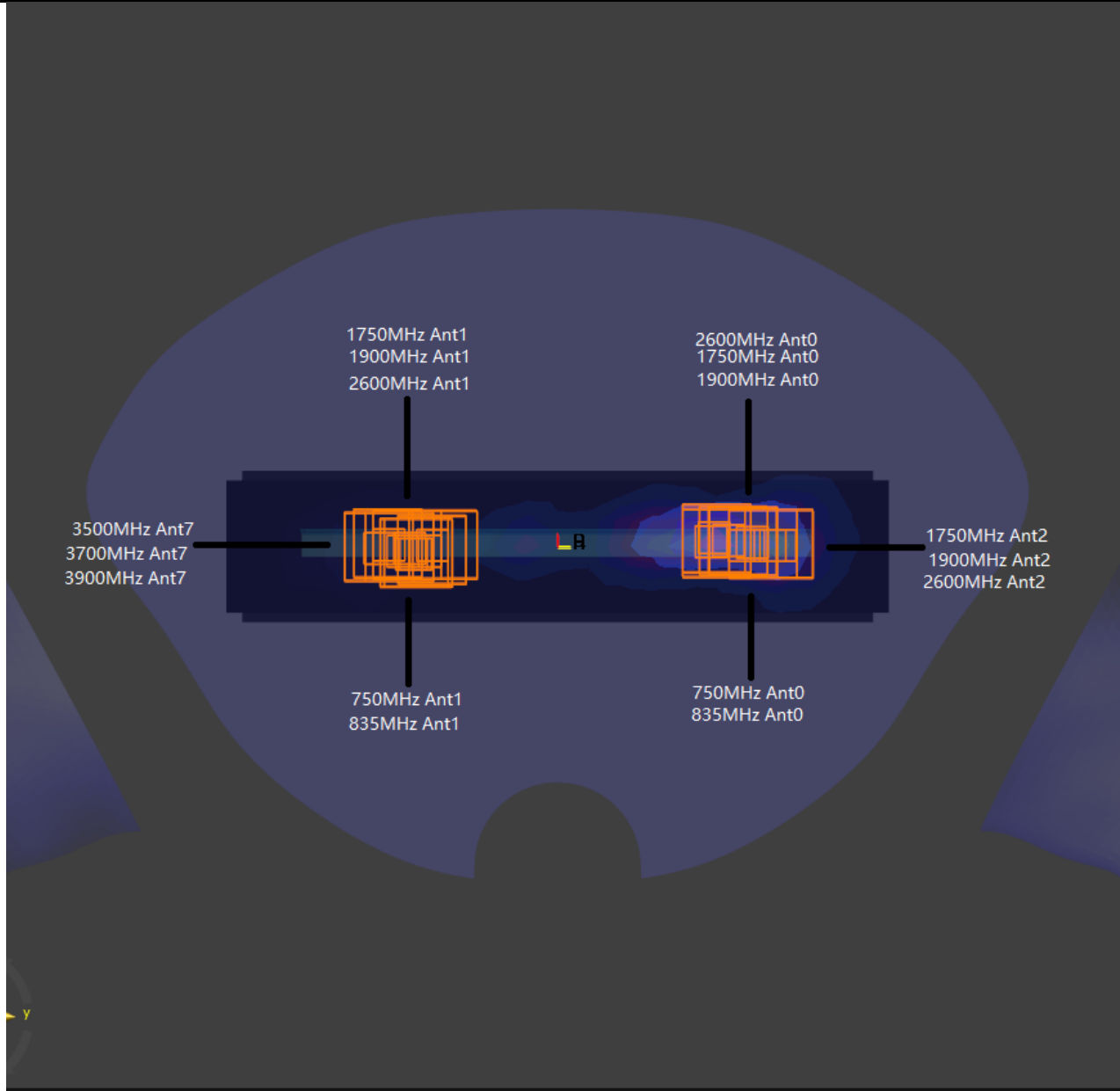
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2)1.5 / (\text{min. separation distance, mm})$. 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 WIFI Antenna 3/6/4/5 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 detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.
6. The axis peak locations refer to Section 17.8.



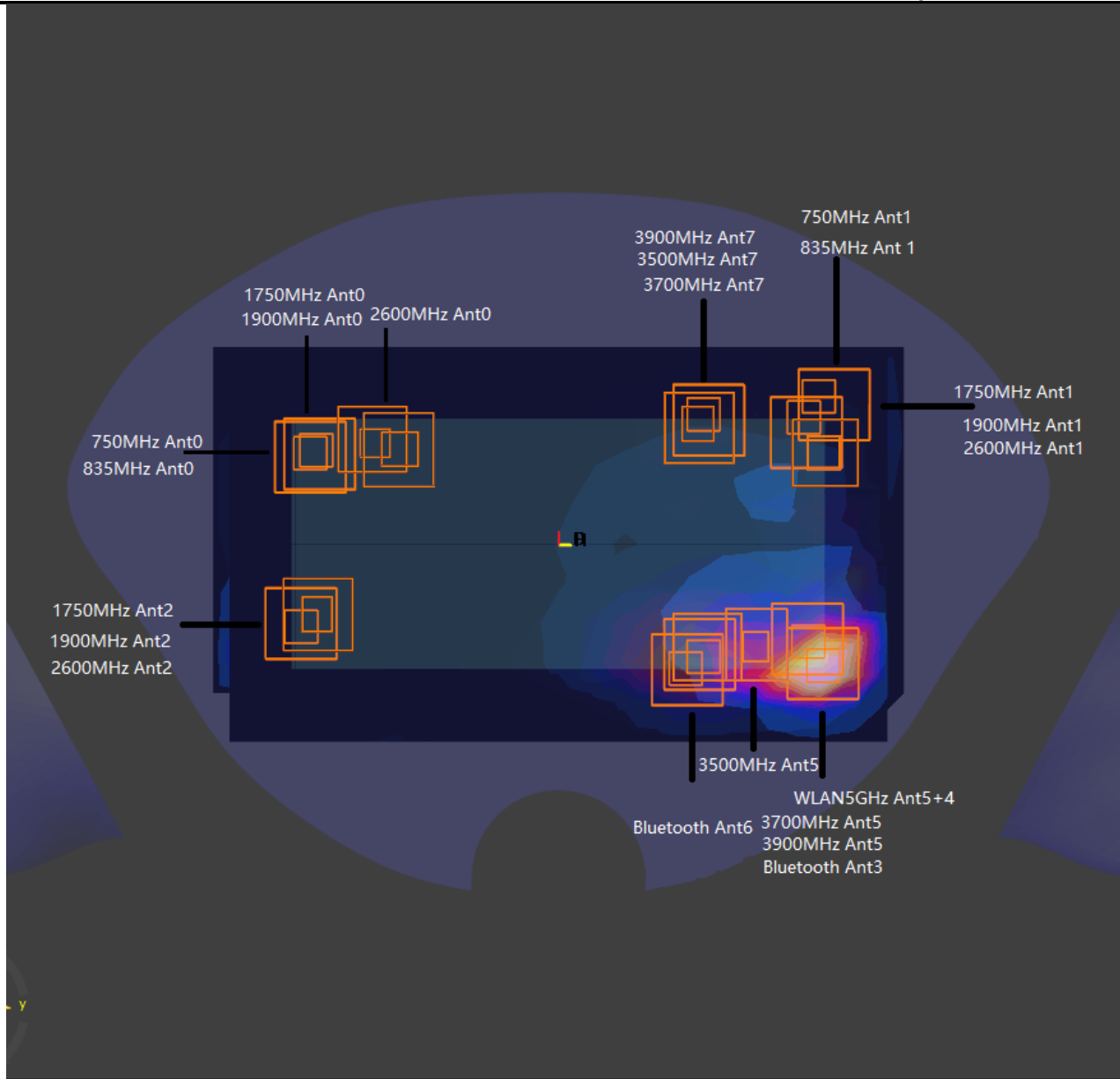
Head WWAN+WWAN Right Cheek 0mm



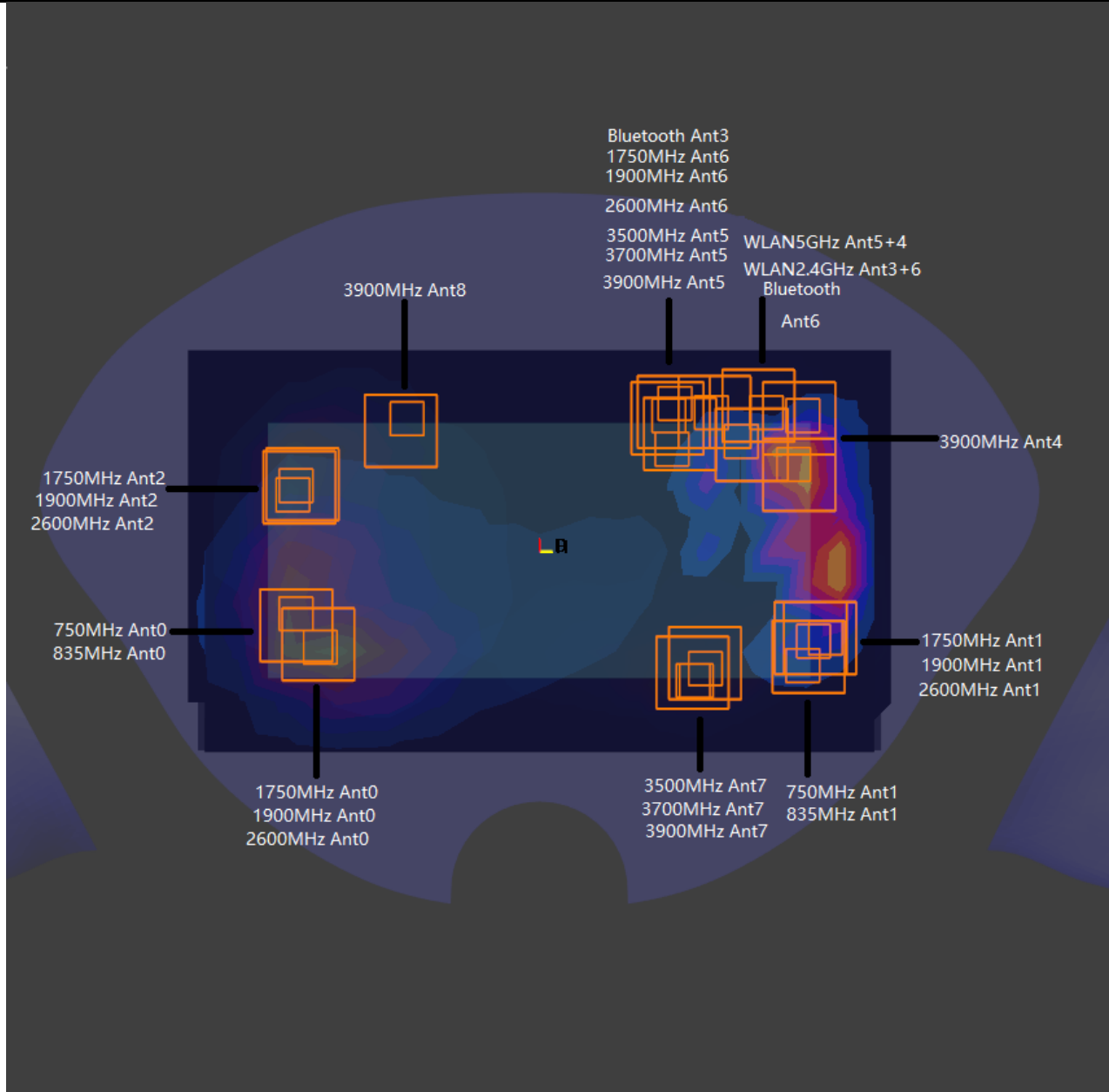
Head WWAN+WLAN2.4GHz+Bluetooth Left Cheek 0mm



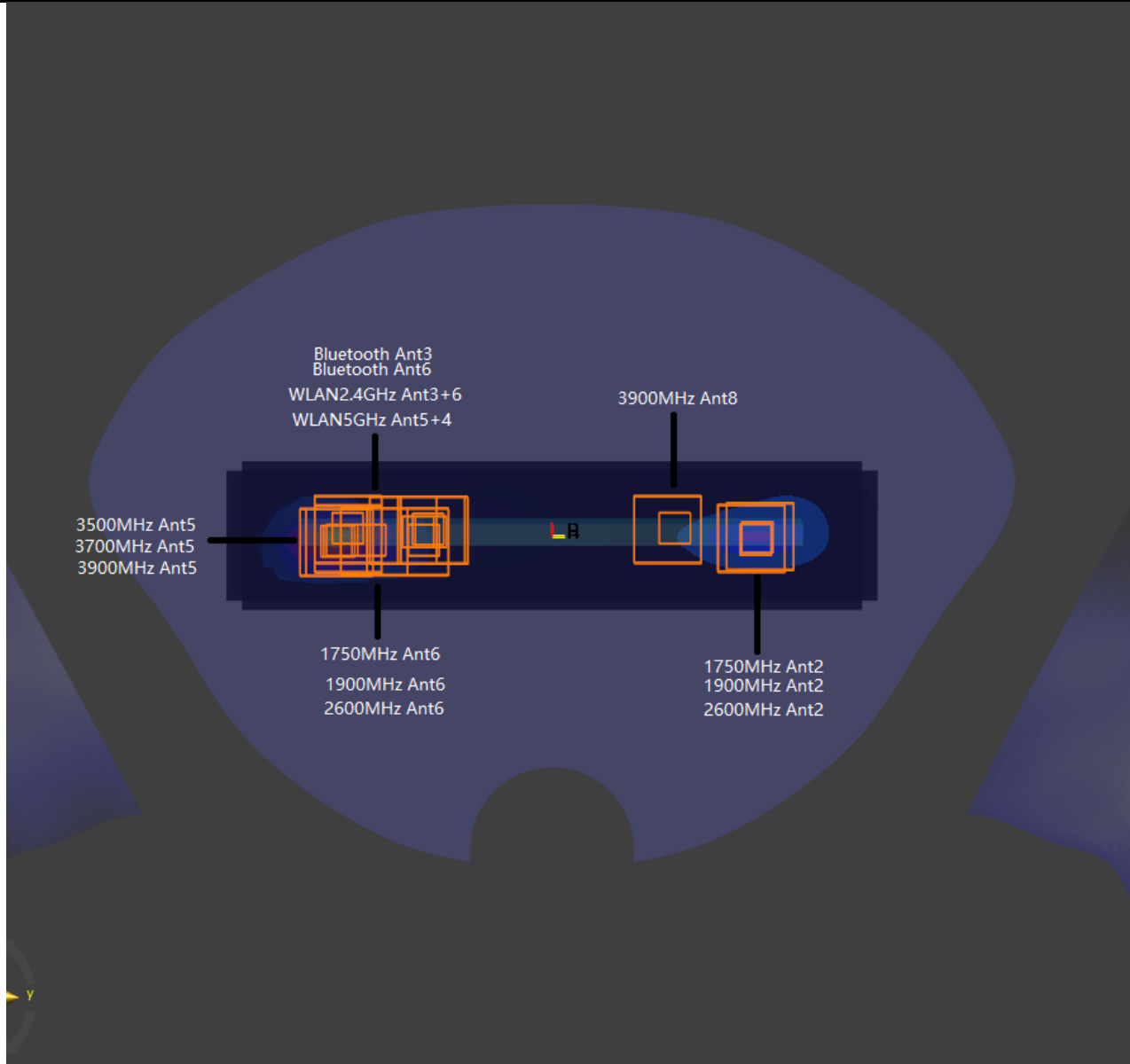
Hotspot WWAN+WWAN Left Side 5mm



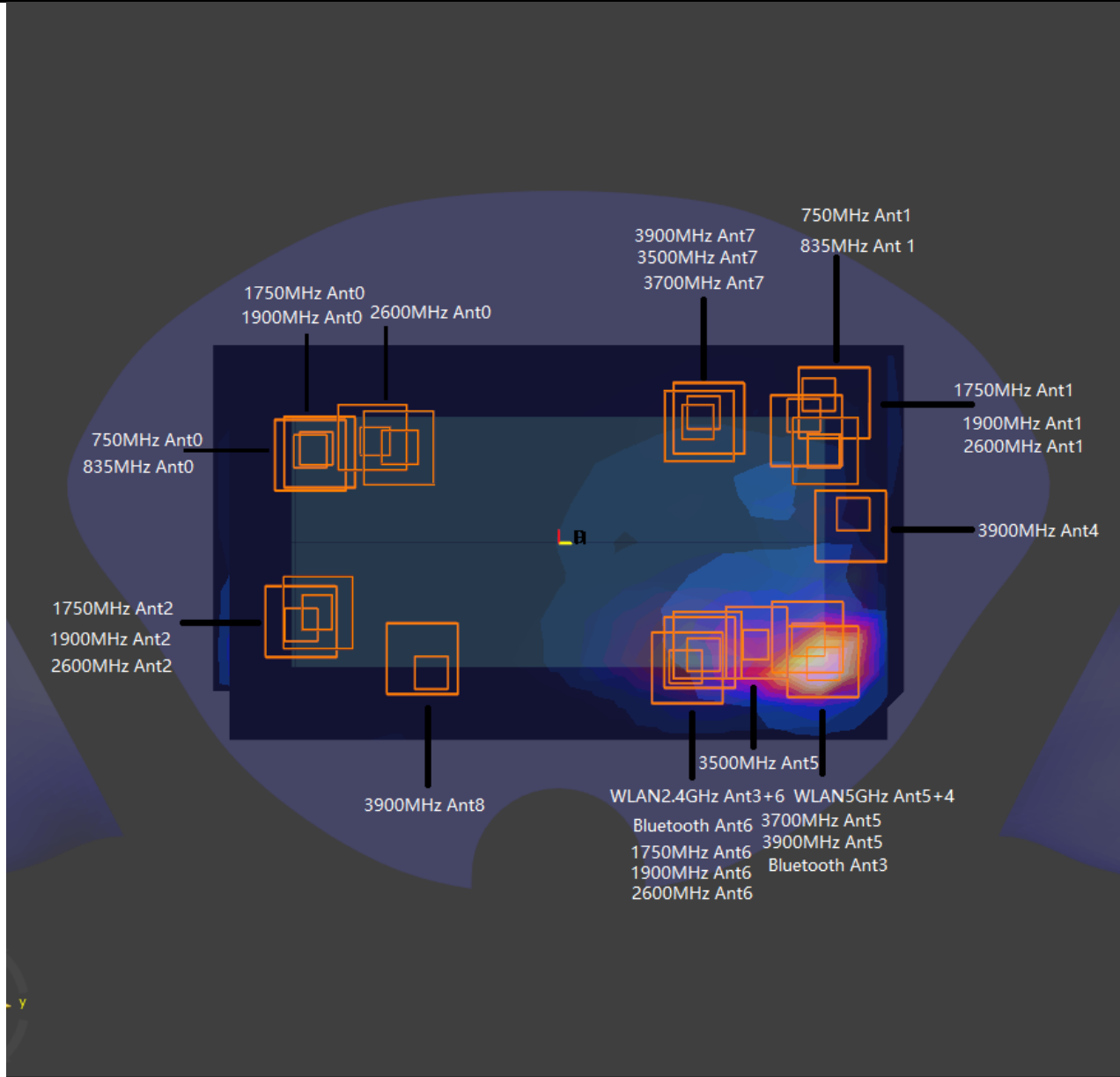
Hotspot WWAN+WLAN5G+BT Front 5mm



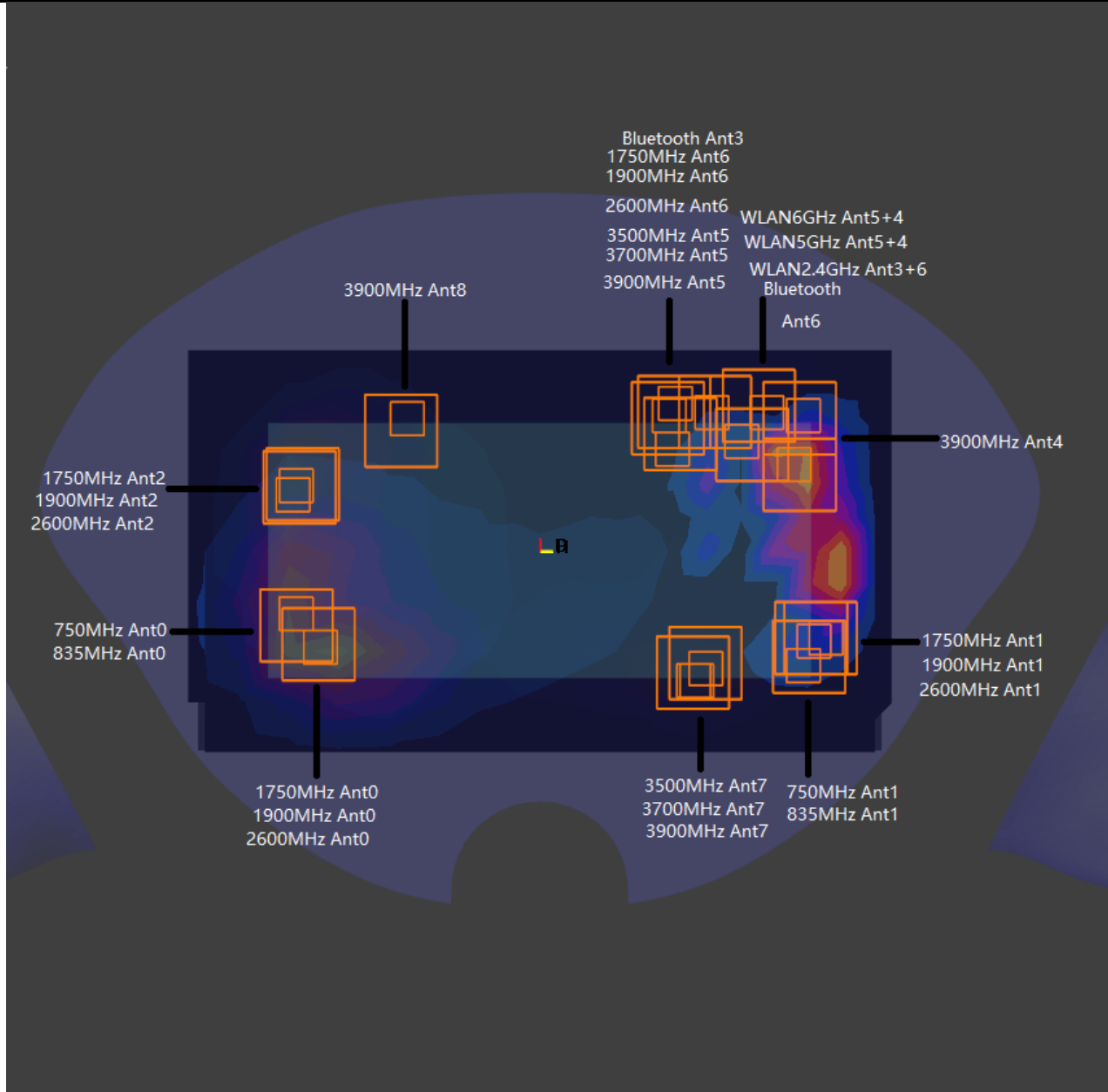
Hotspot WWAN+WLAN5G+WLAN2.4G+BT Back 5mm



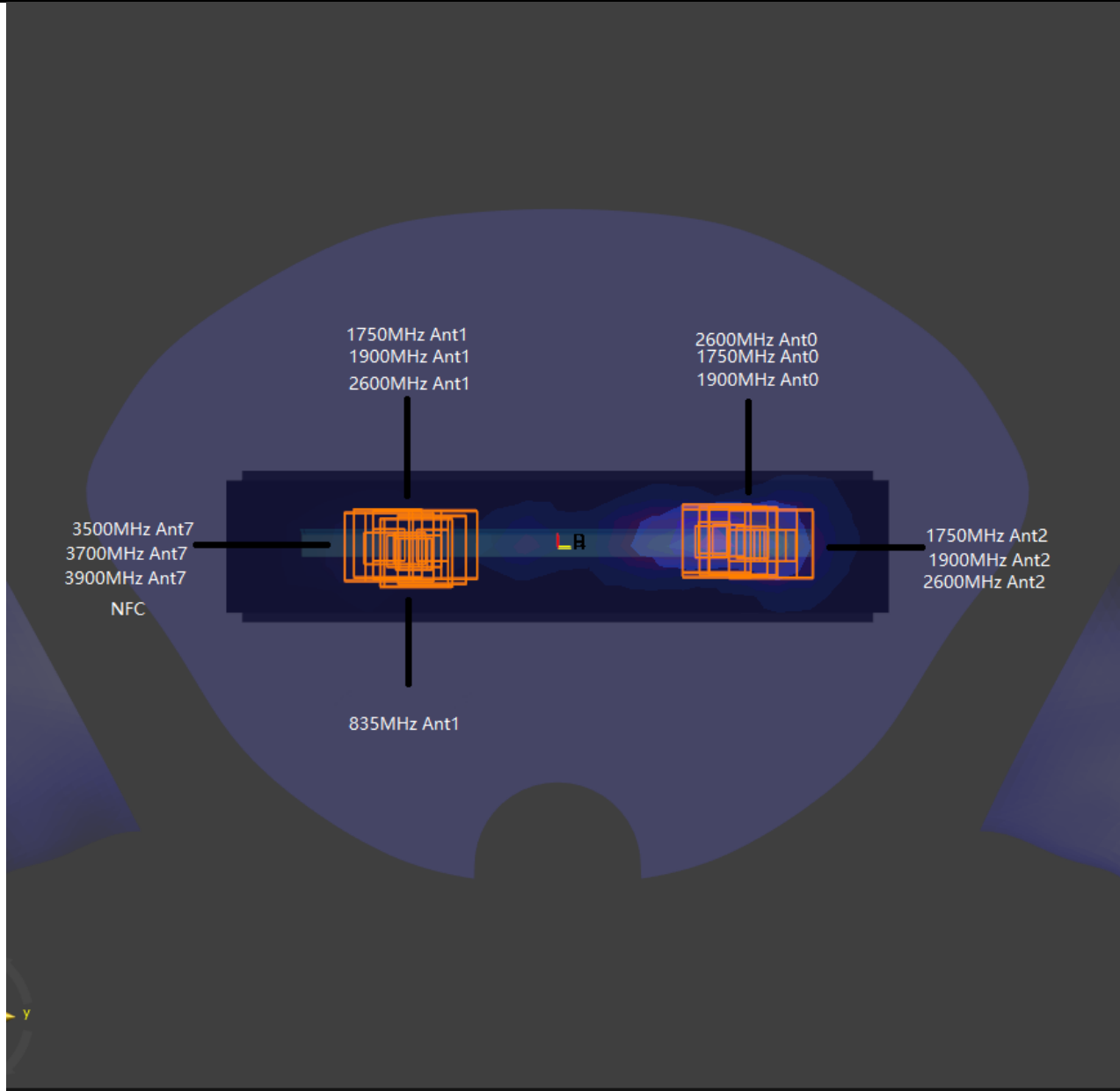
Hotspot WWAN+WLAN2.4G+WLAN5G+BT Right Side 5mm



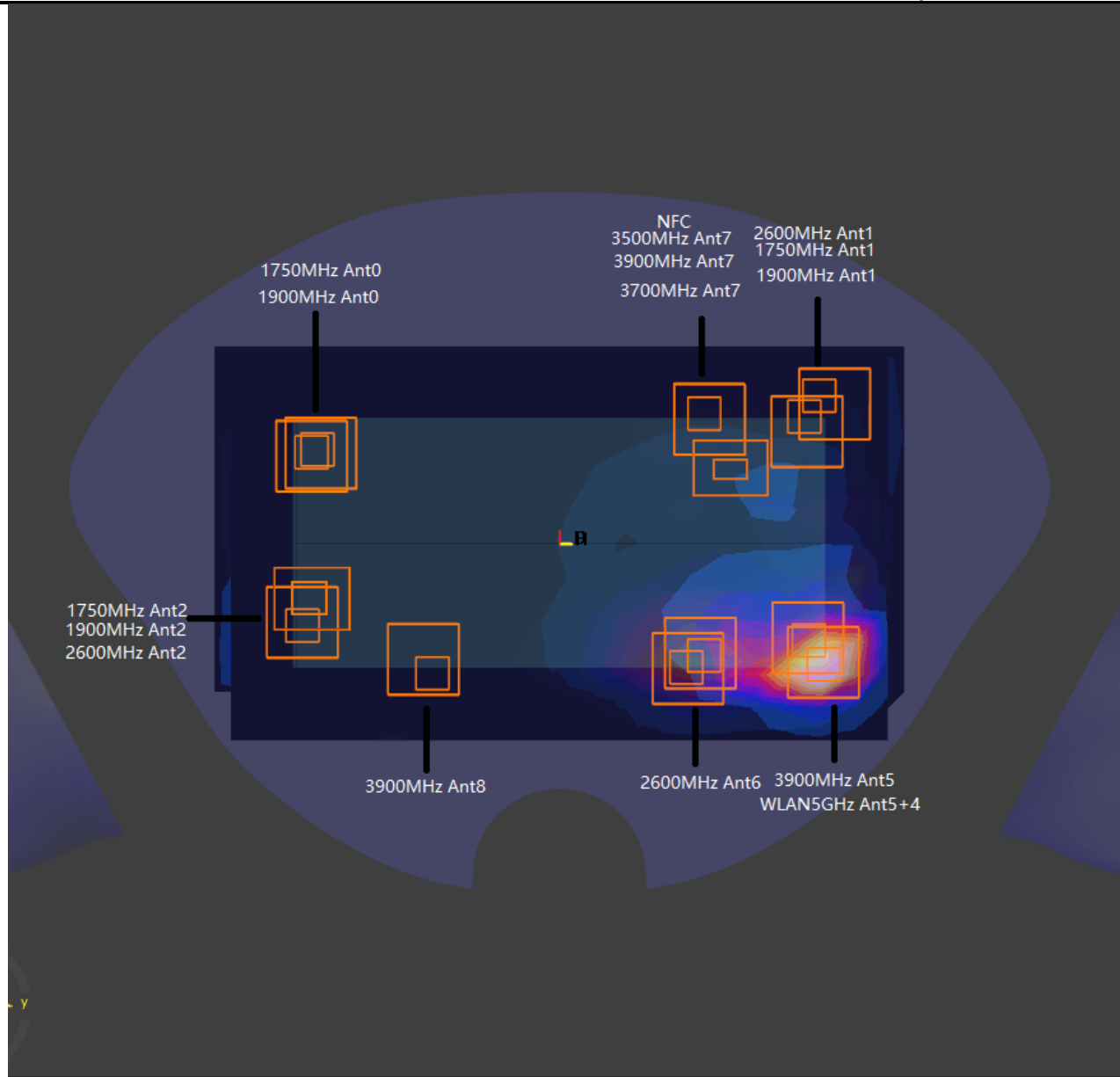
Body-worn WWAN+WLAN5G+WLAN2.4G+BT Front 5mm



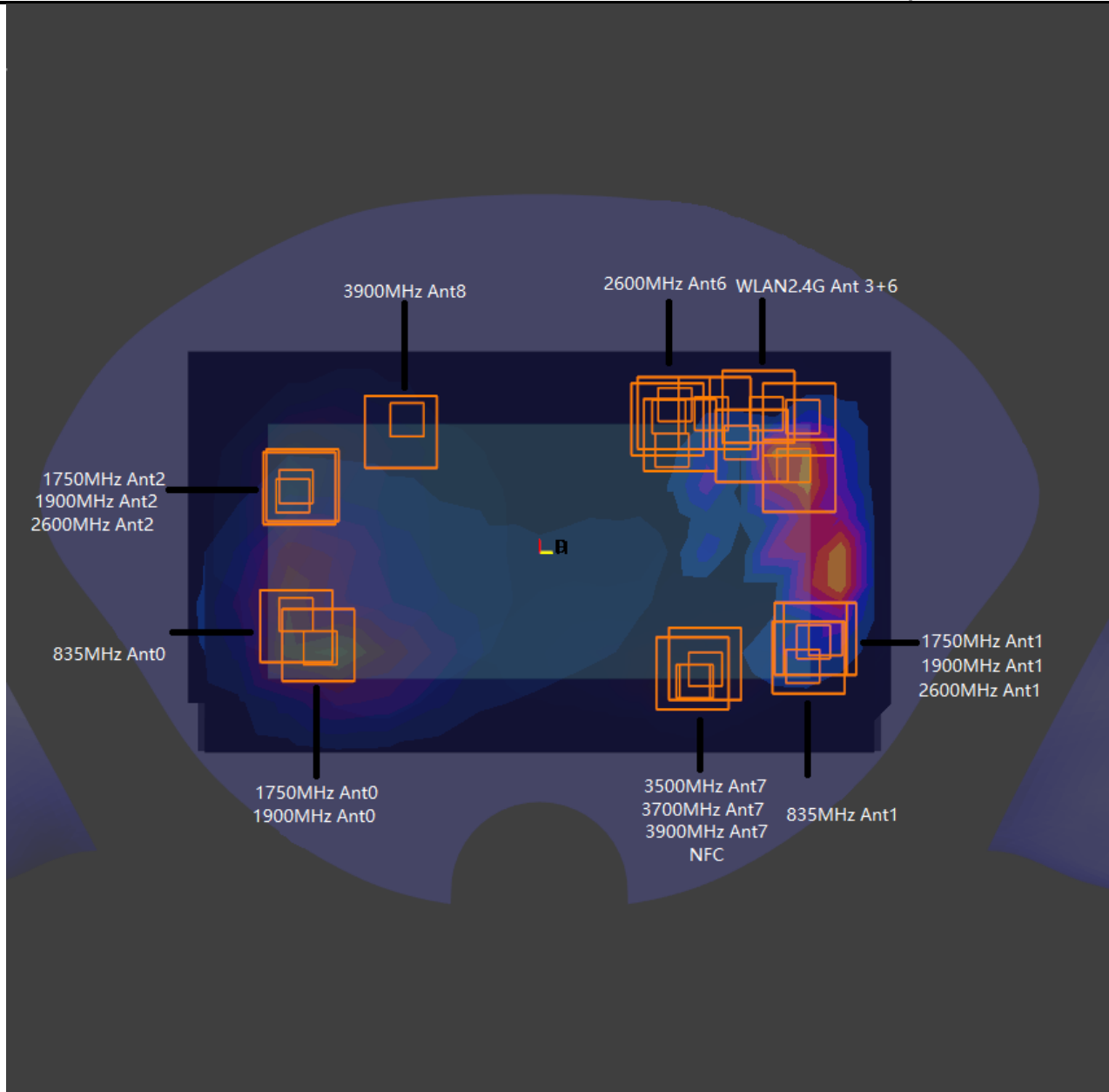
Body-worn WWAN+WLAN6G+WLAN5G+WLAN2.4G+BT Back 5mm



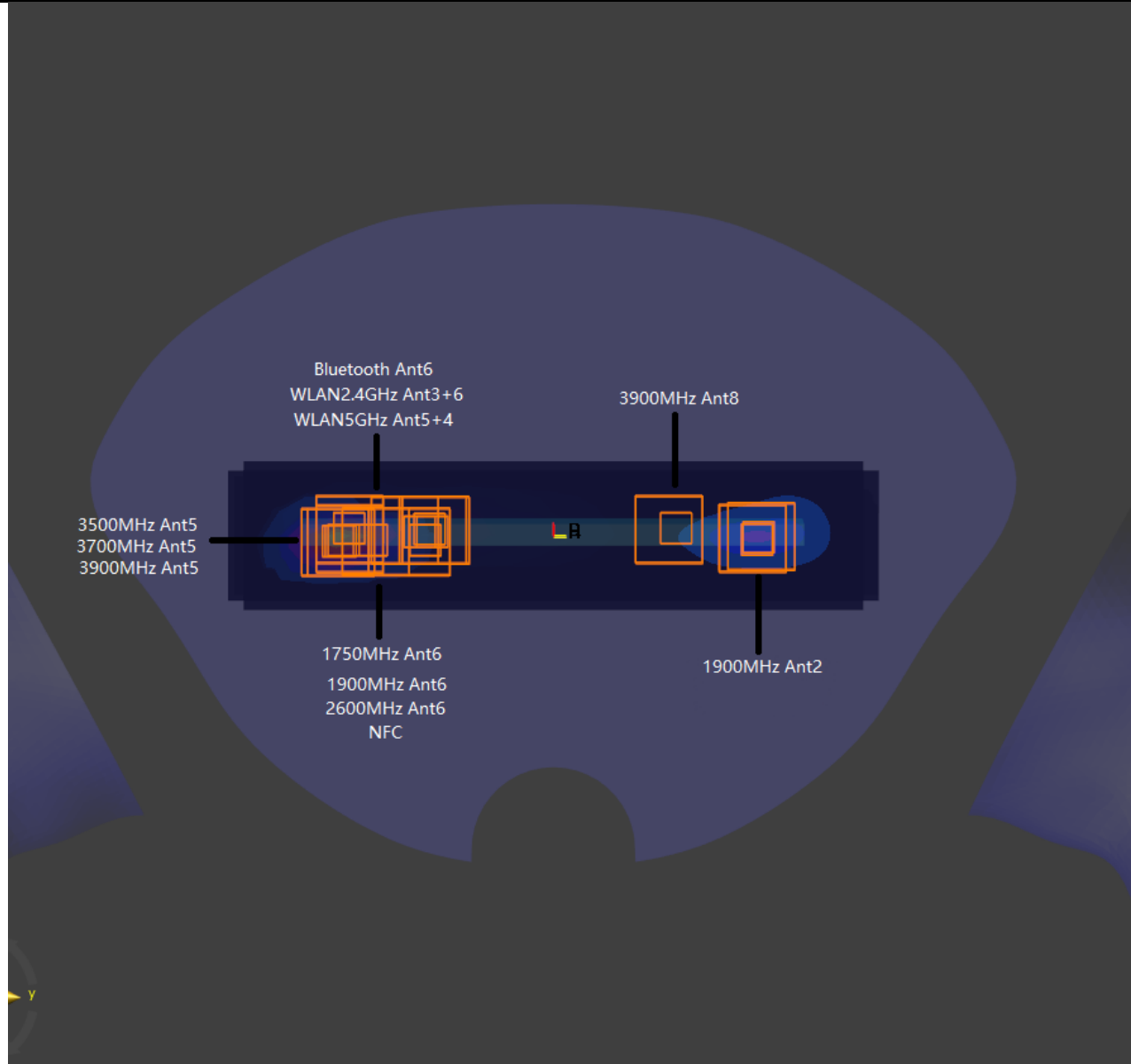
Extremity WWAN+WWAN+NFC Left Side 0mm



Extremity WWAN+WLAN5G+NFC Front 0mm



Extremity WWAN+WLAN2.4G+NFC Back 0mm



Extremity WWAN+WLAN2.4G+WLAN5G+BT+NFC Right Side 0mm

<Head>

No.1 Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 8	Right Cheek	0.381	0.381	0mm	50.3	-250	-171.6	80.2	1.68	0.03	Not required
Ant 1		1.295	1.295	0mm	28.3	-327.1	-171.8				
No.2 Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 8	Right Cheek	0.381	0.381	0mm	50.3	-250	-171.6	74.0	1.68	0.03	Not required
Ant 7		1.299	1.299	0mm	56.8	-323.7	-170.5				

No.3 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Left Cheek	0.311	0.311	0mm	52.8	266.3	-174.1	69.8	1.60	0.03	Not required
Ant4		1.293	1.293	0mm	15.7	325.3	-171.2				
No.4 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Left Cheek	0.311	0.311	0mm	52.8	266.3	-174.1	74.4	1.61	0.03	Not required
Ant5		1.296	1.296	0mm	33.3	338.1	-173.9				
No.5 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Left Cheek	0.311	0.311	0mm	52.8	266.3	-174.1	52.9	1.60	0.04	Not required
Bluetooth Ant6		1.289	1.289	0mm	57.7	318.9	-172.5				
No.6 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Left Cheek	0.311	0.311	0mm	52.8	266.3	-174.1	73.7	1.75	0.03	Not required
WLAN2.4GHz Ant3+6		1.441	1.441	0mm	25.7	334.8	-172.8				
No.7 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Left Cheek	0.163	0.163	0mm	55.8	244.4	-168.9	95.4	1.60	0.02	Not required
WLAN2.4GHz Ant3+6		1.441	1.441	0mm	25.7	334.8	-172.8				
No.8 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Left Cheek	0.254	0.254	0mm	84.3	309.3	-172.4	63.9	1.70	0.03	Not required
WLAN2.4GHz Ant3+6		1.441	1.441	0mm	25.7	334.8	-172.8				

No.9 Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Left Cheek	0.311	0.311	0mm	52.8	266.3	-174.1	71.6	1.74	0.03	Not required
Bluetooth Ant3		0.140	1.429	0mm	17.5	328.6	-172.8				
Bluetooth Ant6		1.289		0mm							
Ant0	Left Cheek	0.311	0.311	0mm	52.8	266.3	-174.1	62.8	1.74	0.04	Not required
Bluetooth Ant3		0.140	1.429	0mm							
Bluetooth Ant6		1.289		0mm	57.7	328.9	-172.5				
No.10 Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Left Cheek	0.254	0.254	0mm	84.3	279.3	-172.4	83.0	1.68	0.03	Not required
Bluetooth Ant3		0.140	1.429	0mm	17.5	328.6	-172.8				
Bluetooth Ant6		1.289		0mm							
Ant8	Left Cheek	0.254	0.254	0mm	84.3	279.3	-172.4	56.3	1.68	0.04	Not required
Bluetooth Ant3		0.140	1.429	0mm							
Bluetooth Ant6		1.289		0mm	57.7	328.9	-172.5				

<Hotspot>

No.1 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	0.935	5mm	-54	-70	-204	141.9	1.83	0.02	Not required
Ant1		0.895	5mm	-64.5	71.5	-204				
No.2 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	0.935	5mm	-54	-70	-204	160.2	1.80	0.02	Not required
Ant5		0.860	5mm	12.9	75.6	-204				
No.3 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	0.935	5mm	-54	-70	-204	111.4	1.74	0.02	Not required
Ant7		0.807	5mm	-64	41	-204				
No.4 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.012	5mm	1	-73.8	-204	159.4	1.91	0.02	Not required
Ant1		0.895	5mm	-64.5	71.5	-204				
No.5 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.012	5mm	1	-73.8	-204	149.9	1.87	0.02	Not required
Ant5		0.860	5mm	12.9	75.6	-204				
No.6 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.012	5mm	1	-73.8	-204	131.9	1.82	0.02	Not required
Ant7		0.807	5mm	-64	41	-204				
No.7 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.012	5mm	1	-73.8	-204	120.1	1.62	0.02	Not required
Bluetooth Ant6		0.604	5mm	8.9	46	-204				
No.8 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.012	5mm	1	-73.8	-204	151.8	1.63	0.01	Not required
WLAN5GHz Ant4+5		0.620	5mm	4	78	-204				

No.40 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	0.935	0.935	0mm	-54	-70	-204	165.8	1.84	0.02	Not required
Bluetooth Ant3		0.303	0.907	0mm	9.5	83.2	-204				
Bluetooth Ant6		0.604		0mm							
Ant0	Front	0.935	0.935	0mm	-54	-70	-204	132.0	1.84	0.02	Not required
Bluetooth Ant3		0.303	0.907	0mm							
Bluetooth Ant6		0.604		0mm	8.9	46	-204				
No.41 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Front	1.012	1.012	0mm	1	-73.8	-204	157.2	1.92	0.02	Not required
Bluetooth Ant3		0.303	0.907	0mm	9.5	83.2	-204				
Bluetooth Ant6		0.604		0mm							
Ant2	Front	1.012	1.012	0mm	1	-73.8	-204	120.1	1.92	0.02	Not required
Bluetooth Ant3		0.303	0.907	0mm							
Bluetooth Ant6		0.604		0mm	8.9	46	-204				



No.9 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	137.1	2.59	0.03	Not required
Ant1		1.296	5mm	-2.5	69	-204				
No.10 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	158.8	1.88	0.02	Not required
Ant4		0.581	5mm	-18	88	-204				
No.11 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	159.7	2.16	0.02	Not required
Ant5		0.865	5mm	-66	69	-204				
No.12 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	134.5	1.90	0.02	Not required
Ant6		0.606	5mm	-65	39	-204				
No.13 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	115.6	2.14	0.03	Not required
Ant7		0.846	5mm	14	49	-204				
No.14 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	138.9	2.13	0.02	Not required
Bluetooth Ant6		0.829	5mm	-69.4	41	-204				
No.15 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	128.1	1.99	0.02	Not required
WLAN2.4GHz Ant3+6		0.689	5mm	-52.6	40	-204				
No.16 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	144.1	2.07	0.02	Not required
WLAN5GHz Ant4+5		0.773	5mm	-65	51	-204				
No.17 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.123	5mm	-14	-71	-204	140.2	2.42	0.03	Not required
Ant1		1.296	5mm	-7	69	-204				
No.18 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.123	5mm	-14	-71	-204	159.1	1.70	0.01	Not required
Ant4		0.581	5mm	-18	88	-204				
No.19 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.123	5mm	-41.5	-72	-204	143.1	1.99	0.02	Not required
Ant5		0.865	5mm	-66	69	-204				
No.20 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.123	5mm	-53	-73.5	-204	113.1	1.73	0.02	Not required
Ant6		0.606	5mm	-65	39	-204				
No.21 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.123	5mm	-14	-71	-204	123.2	1.97	0.02	Not required
Ant7		0.846	5mm	14	49	-204				
No.22 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				



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Ant2	Back	1.123	5mm	-53	-73.5	-204	115.7	1.95	0.02	Not required
Bluetooth Ant6		0.829	5mm	-69.4	41	-204				
No.23 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.123	5mm	-41.5	-72	-204	112.5	1.81	0.02	Not required
WLAN2.4GHz Ant3+6		0.689	5mm	-52.6	40	-204				
No.24 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.123	5mm	-53	-73.5	-204	125.1	1.90	0.02	Not required
WLAN5GHz Ant4+5		0.773	5mm	-65	51	-204				
No.25 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Back	0.629	5mm	-65	-60	-204	141.4	1.93	0.02	Not required
Ant1		1.296	5mm	-7	69	-204				

No.42 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.296	1.296	0mm	18.5	-66.5	-204	138.6	2.38	0.03	Not required
Bluetooth Ant3		0.254	1.083	0mm	-10.6	69	-204				
Bluetooth Ant6		0.829		0mm							
Ant0	Back	1.296	1.296	0mm	18.5	-66.5	-204	138.9	2.38	0.03	Not required
Bluetooth Ant3		0.254	1.083	0mm							
Bluetooth Ant6		0.829		0mm	-69.4	41	-204				
No.43 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.123	1.123	0mm	-53	-73.5	-204	148.7	2.21	0.02	Not required
Bluetooth Ant3		0.254	1.083	0mm	-10.6	69	-204				
Bluetooth Ant6		0.829		0mm							
Ant2	Back	1.123	1.123	0mm	-53	-73.5	-204	115.7	2.21	0.03	Not required
Bluetooth Ant3		0.254	1.083	0mm							
Bluetooth Ant6		0.829		0mm	-69.4	41	-204				
No.44 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Back	0.629	0.629	0mm	-65	-60	-204	140.0	1.71	0.02	Not required
Bluetooth Ant3		0.254	1.083	0mm	-10.6	69	-204				
Bluetooth Ant6		0.829		0mm							
Ant8	Back	0.629	0.629	0mm	-65	-60	-204	101.1	1.71	0.02	Not required
Bluetooth Ant3		0.254	1.083	0mm							
Bluetooth Ant6		0.829		0mm	-69.4	41	-204				

No.26 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Left Side	1.285	5mm	-25	-61.5	-204	117.3	2.58	0.04	Not required
Ant1		1.296	5mm	-24.6	55.8	-204				
No.27 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Left Side	1.285	5mm	-25	-61.5	-204	109.6	2.58	0.04	Not required
Ant7		1.298	5mm	-25	48.1	-204				
No.28 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Left Side	0.448	5mm	-25	-40.4	-204	96.2	1.74	0.02	Not required
Ant1		1.296	5mm	-24.6	55.8	-204				
No.29 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Left Side	0.448	5mm	-25	-40.4	-204	88.5	1.75	0.03	Not required



Ant7		1.298	5mm	-25	48.1	-204				
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No.30 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Right Side	0.602	5mm	-26.1	63.2	-204	124.9	1.90	0.02	Not required
Ant5		1.296	5mm	-25	-61.7	-203				
No.31 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Right Side	0.602	5mm	-26.1	63.2	-204	102.2	1.90	0.03	Not required
Ant6		1.293	5mm	-26.4	-39	-204				
No.32 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Right Side	0.602	5mm	-26.1	63.2	-204	121.2	1.86	0.02	Not required
Bluetooth Ant6		1.258	5mm	-23.9	-58	-204				
No.33 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Right Side	0.602	5mm	-26.1	63.2	-204	122.2	2.04	0.02	Not required
WLAN2.4GHz Ant3+6		1.442	5mm	-23.6	-59	-204				
No.34 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Right Side	0.602	5mm	-26.1	63.2	-204	132.2	1.78	0.02	Not required
WLAN5GHz Ant4+5		1.178	5mm	-24.3	-69	-204				
No.35 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Right Side	1.293	5mm	-25	66.6	-204	128.3	2.59	0.03	Not required
Ant5		1.296	5mm	-25	-61.7	-203				
No.36 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Right Side	1.293	5mm	-25	66.6	-204	105.6	2.59	0.04	Not required
Ant6		1.293	5mm	-26.4	-39	-204				
No.37 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Right Side	1.293	5mm	-25	66.6	-204	124.6	2.55	0.03	Not required
Bluetooth Ant6		1.258	5mm	-23.9	-58	-204				
No.38 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Right Side	1.293	5mm	-25	66.6	-204	125.6	2.74	0.04	Not required
WLAN2.4GHz Ant3+6		1.442	5mm	-23.6	-59	-204				
No.39 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Right Side	1.293	5mm	-25	66.6	-204	135.6	2.47	0.03	Not required
WLAN5GHz Ant4+5		1.178	5mm	-24.3	-69	-204				

No.45 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Right Side	0.602	0.602	0mm	-26.1	63.2	-204	143.2	2.00	0.02	Not required
Bluetooth Ant3		0.135	1.393	0mm	-24.5	-80	-204				
Bluetooth Ant6		1.258		0mm							
Ant2	Right Side	0.602	0.602	0mm	-26.1	63.2	-204	121.2	2.00	0.02	Not required
Bluetooth Ant3		0.135	1.393	0mm							
Bluetooth Ant6		1.258		0mm	-23.9	-58	-204				
No.46 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Right Side	1.293	1.293	0mm	-25	66.6	-204	146.6	2.69	0.03	Not required
Bluetooth Ant3		0.135	1.393	0mm	-24.5	-80	-204				



Bluetooth Ant6		1.258		0mm							
Ant8	Right Side	1.293	1.293	0mm	-25	66.6	-204	124.6	2.69	0.04	Not required
Bluetooth Ant3		0.135	1.393	0mm							
Bluetooth Ant6		1.258		0mm	-23.9	-58	-204				

<Body-worn>

No.1 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.024	5mm	-54	-70	-204	141.9	1.92	0.02	Not required
Ant1		0.895	5mm	-64.5	71.5	-204				
No.2 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.024	5mm	-54	-70	-204	160.3	2.13	0.02	Not required
Ant4		1.103	5mm	-34	89	-204				
No.3 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.024	5mm	-54	-70	-204	160.2	2.31	0.02	Not required
Ant5		1.286	5mm	12.9	75.6	-204				
No.4 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.024	5mm	-54	-70	-204	125.4	2.04	0.02	Not required
Ant6		1.014	5mm	12.8	36.1	-204				
No.5 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.024	5mm	-54	-70	-204	111.4	2.25	0.03	Not required
Ant7		1.221	5mm	-64	41	-204				
No.6 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.024	5mm	-54	-70	-204	132.0	1.73	0.02	Not required
Bluetooth Ant6		0.701	5mm	8.9	46	-204				
No.7 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.024	5mm	-54	-70	-204	130.9	1.78	0.02	Not required
WLAN2.4GHz Ant3+6		0.752	5mm	8.6	45	-204				
No.8 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.024	5mm	-54	-70	-204	159.0	1.78	0.01	Not required
WLAN5GHz Ant4+5		0.753	5mm	4	78	-204				
No.9 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.247	5mm	1	-73.8	-204	159.4	2.14	0.02	Not required
Ant1		0.895	5mm	-64.5	71.5	-204				
No.10 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.247	5mm	1	-73.8	-204	157.7	2.35	0.02	Not required
Ant4		1.103	5mm	-34	80	-204				
No.11 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.247	5mm	1	-73.8	-204	149.9	2.53	0.03	Not required
Ant5		1.286	5mm	12.9	75.6	-204				
No.12 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.247	5mm	1	-73.8	-204	110.5	2.26	0.03	Not required
Ant6		1.014	5mm	12.8	36.1	-204				
No.13 Band	Position	SAR 1g	Gap	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous



		SAR (W/kg)		X	Y	Z	distance (mm)	SAR (W/kg)		
Ant2	Front	1.247	5mm	1	-73.8	-204	131.9	2.47	0.03	Not required
Ant7		1.221	5mm	-64	41	-204				
No.14 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.247	5mm	1	-73.8	-204	120.1	1.95	0.02	Not required
Bluetooth Ant6		0.701	5mm	8.9	46	-204				
No.15 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.247	5mm	1	-73.8	-204	119.0	2.00	0.02	Not required
WLAN2.4GHz Ant3+6		0.752	5mm	8.6	45	-204				
No.16 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Front	1.247	5mm	1	-73.8	-204	151.8	2.00	0.02	Not required
WLAN5GHz Ant4+5		0.753	5mm	4	78	-204				
No.17 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Front	1.284	5mm	14	-60	-204	153.3	2.18	0.02	Not required
Ant1		0.895	5mm	-63.9	72	-204				
No.18 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Front	1.284	5mm	14	-60	-204	156.5	2.39	0.02	Not required
Ant4		1.103	5mm	-34	89	-204				
No.19 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Front	1.284	5mm	14	-60	-204	135.6	2.57	0.03	Not required
Ant5		1.286	5mm	12.9	75.6	-204				
No.20 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Front	1.284	5mm	14	-60	-204	96.1	2.30	0.04	Not required
Ant6		1.014	5mm	12.8	36.1	-204				
No.21 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Front	1.284	5mm	14	-60	-204	127.6	2.51	0.03	Not required
Ant7		1.221	5mm	-64	41	-204				
No.22 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Front	1.284	5mm	14	-60	-204	106.1	1.99	0.03	Not required
Bluetooth Ant6		0.701	5mm	8.9	46	-204				
No.23 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Front	1.284	5mm	14	-60	-204	105.1	2.04	0.03	Not required
WLAN2.4GHz Ant3+6		0.752	5mm	8.6	45	-204				
No.24 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Front	1.284	5mm	14	-60	-204	138.4	2.04	0.02	Not required
WLAN5GHz Ant4+5		0.753	5mm	4	78	-204				

No.52 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	1.024	1.024	0mm	-54	-70	-204	165.8	1.92	0.02	Not required
Bluetooth Ant3		0.194	0.895	0mm	9.5	83.2	-204				
Bluetooth Ant6		0.701		0mm							
Ant0	Front	1.024	1.024	0mm	-54	-70	-204	132.0	1.92	0.02	Not required
Bluetooth Ant3		0.194	0.895	0mm							
Bluetooth Ant6		0.701		0mm	8.9	46	-204				
No.53 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Front	1.247	1.247	0mm	1	-73.8	-204	157.2	2.14	0.02	Not required
Bluetooth Ant3		0.194	0.895	0mm	9.5	83.2	-204				
Bluetooth Ant6		0.701		0mm							
Ant2	Front	1.247	1.247	0mm	1	-73.8	-204	120.1	2.14	0.03	Not required
Bluetooth Ant3		0.194	0.895	0mm							
Bluetooth Ant6		0.701		0mm	8.9	46	-204				
No.54 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Front	1.284	1.284	0mm	14	-60	-204	143.3	2.18	0.02	Not required
Bluetooth Ant3		0.194	0.895	0mm	9.5	83.2	-204				
Bluetooth Ant6		0.701		0mm							
Ant8	Front	1.284	1.284	0mm	14	-60	-204	106.1	2.18	0.03	Not required
Bluetooth Ant3		0.194	0.895	0mm							
Bluetooth Ant6		0.701		0mm	8.9	46	-204				

No.25 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	137.1	2.59	0.03	Not required
Ant1		1.296	5mm	-2.5	69	-204				
No.26 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	158.8	2.53	0.03	Not required
Ant4		1.229	5mm	-18	88	-204				
No.27 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	159.7	2.58	0.03	Not required
Ant5		1.286	5mm	-66	69	-204				
No.28 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	134.5	2.42	0.03	Not required
Ant6		1.124	5mm	-65	39	-204				
No.29 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	115.6	2.58	0.04	Not required
Ant7		1.282	5mm	14	49	-204				
No.30 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	138.9	2.26	0.02	Not required
Bluetooth Ant6		0.961	5mm	-69.4	41	-204				
No.31 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	128.1	2.56	0.03	Not required
WLAN2.4GHz Ant3+6		1.259	5mm	-52.6	40	-204				
No.32 Band	Position	SAR 1g	Gap	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous



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		SAR (W/kg)		X	Y	Z	distance (mm)	SAR (W/kg)		
Ant0	Back	1.296	5mm	18.5	-66.5	-204	144.1	2.46	0.03	Not required
WLAN5GHz Ant4+5		1.161	5mm	-65	51	-204				
No.33 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.296	5mm	18.5	-66.5	-204	147.9	1.98	0.02	Not required
WLAN6GHz Ant4+5		0.681	5mm	-59	59.5	-204				
No.34 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.296	5mm	-14	-71	-204	140.2	2.59	0.03	Not required
Ant1		1.296	5mm	-7	69	-204				
No.35 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.296	5mm	-14	-71	-204	159.1	2.53	0.03	Not required
Ant4		1.229	5mm	-18	88	-204				
No.36 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.296	5mm	-41.5	-72	-204	143.1	2.58	0.03	Not required
Ant5		1.286	5mm	-66	69	-204				
No.37 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.296	5mm	-53	-73.5	-204	113.1	2.42	0.03	Not required
Ant6		1.124	5mm	-65	39	-204				
No.38 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.296	5mm	-14	-71	-204	123.2	2.58	0.03	Not required
Ant7		1.282	5mm	14	49	-204				
No.39 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.296	5mm	-53	-73.5	-204	115.7	2.26	0.03	Not required
Bluetooth Ant6		0.961	5mm	-69.4	41	-204				
No.40 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.296	5mm	-41.5	-72	-204	112.5	2.56	0.04	Not required
WLAN2.4GHz Ant3+6		1.259	5mm	-52.6	40	-204				
No.41 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.296	5mm	-53	-73.5	-204	125.1	2.46	0.03	Not required
WLAN5GHz Ant4+5		1.161	5mm	-65	51	-204				
No.42 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant2	Back	1.296	5mm	-41.5	-72	-204	132.7	1.98	0.02	Not required
WLAN6GHz Ant4+5		0.681	5mm	-59	59.5	-204				
No.43 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Back	1.184	5mm	-65	-60	-204	141.4	2.48	0.03	Not required
Ant1		1.296	5mm	-7	69	-204				
No.44 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Back	1.184	5mm	-65	-60	-204	155.3	2.41	0.02	Not required
Ant4		1.229	5mm	-18	88	-204				
No.45 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Back	1.184	5mm	-65	-60	-204	129.0	2.47	0.03	Not required
Ant5		1.286	5mm	-66	69	-204				



No.46 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Back	1.184	5mm	-65	-60	-204	99.0	2.31	0.04	Not required
Ant6		1.124	5mm	-65	39	-204				
No.47 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Back	1.184	5mm	-65	-60	-204	134.3	2.47	0.03	Not required
Ant7		1.282	5mm	12	50	-204				
No.48 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Back	1.184	5mm	-65	-60	-204	101.1	2.15	0.03	Not required
Bluetooth Ant6		0.961	5mm	-69.4	41	-204				
No.49 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Back	1.184	5mm	-65	-60	-204	100.8	2.44	0.04	Not required
WLAN2.4GHz Ant3+6		1.259	5mm	-52.6	40	-204				
No.50 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Back	1.184	5mm	-65	-60	-204	111.0	2.35	0.03	Not required
WLAN5GHz Ant4+5		1.161	5mm	-65	51	-204				
No.51 Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant8	Back	1.184	5mm	-65	-60	-204	119.7	1.87	0.02	Not required
WLAN6GHz Ant4+5		0.681	5mm	-59	59.5	-204				

No.55 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.296	1.296	0mm	18.5	-66.5	-204	138.6	2.49	0.03	Not required
Bluetooth Ant3		0.230	1.191	0mm	-10.6	69	-204				
Bluetooth Ant6		0.961		0mm							
Ant0	Back	1.296	1.296	0mm	18.5	-66.5	-204	138.9	2.49	0.03	Not required
Bluetooth Ant3		0.230	1.191	0mm							
Bluetooth Ant6		0.961		0mm	-69.4	41	-204				
No.56 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.296	1.296	0mm	-41.5	-72	-204	144.3	2.49	0.03	Not required
Bluetooth Ant3		0.230	1.191	0mm	-10.6	69	-204				
Bluetooth Ant6		0.961		0mm							
Ant2	Back	1.296	1.296	0mm	-41.5	-72	-204	116.4	2.49	0.03	Not required
Bluetooth Ant3		0.230	1.191	0mm							
Bluetooth Ant6		0.961		0mm	-69.4	41	-204				
No.57 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Back	1.184	1.184	0mm	-65	-60	-204	140.0	2.38	0.03	Not required
Bluetooth Ant3		0.230	1.191	0mm	-10.6	69	-204				
Bluetooth Ant6		0.961		0mm							
Ant8	Back	1.184	1.184	0mm	-65	-60	-204	101.1	2.38	0.04	Not required
Bluetooth Ant3		0.230	1.191	0mm							
Bluetooth Ant6		0.961		0mm	-69.4	41	-204				

<Extremity>

No.1 Band	Position	10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	2.901	2.901	0mm	-53.8	-72	-204	144.4	5.33	0.09	Not required
Ant1		2.426	2.428	0mm	-63.9	72	-204				
NFC		0.002		0mm							
Ant0	Front	2.901	2.901	0mm	-53.8	-72	-204	143.8	5.33	0.09	Not required
Ant1		2.426	2.428	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.2 Band	Position	10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	2.901	2.901	0mm	-53.8	-72	-204	156.5	4.87	0.07	Not required
Ant5		1.969	1.971	0mm	12.9	69.6	-204				
NFC		0.002		0mm							
Ant0	Front	2.901	2.901	0mm	-53.8	-72	-204	143.8	4.87	0.07	Not required
Ant5		1.969	1.971	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.3 Band	Position	10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	2.901	2.901	0mm	-53.8	-72	-204	127.4	4.57	0.08	Not required
Ant6		1.664	1.666	0mm	12.2	37	-204				
NFC		0.002		0mm							
Ant0	Front	2.901	2.901	0mm	-53.8	-72	-204	143.8	4.57	0.07	Not required
Ant6		1.664	1.666	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.4 Band	Position	10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	2.901	2.901	0mm	-53.8	-72	-204	143.4	5.66	0.09	Not required
Ant7		2.754	2.756	0mm	-64	71	-204				
NFC		0.002		0mm							
Ant0	Front	2.901	2.901	0mm	-53.8	-72	-204	143.8	5.66	0.09	Not required
Ant7		2.754	2.756	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.5 Band	Position	10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	2.901	2.901	0mm	-53.8	-72	-204	160.8	4.84	0.07	Not required
WLAN5GHz Ant4+5		1.941	1.943	0mm	4	78	-204				
NFC		0.002		0mm							
Ant0	Front	2.901	2.901	0mm	-53.8	-72	-204	143.8	4.84	0.07	Not required
WLAN5GHz Ant4+5		1.941	1.943	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.6 Band	Position	10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Front	3.190	3.190	0mm	1	-73.8	-204	159.6	5.62	0.08	Not required
Ant1		2.426	2.428	0mm	-63.9	72	-204				
NFC		0.002		0mm							
Ant2	Front	3.190	3.190	0mm	1	-73.8	-204	158.3	5.62	0.08	Not required
Ant1		2.426	2.428	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.7 Band	Position	10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Front	3.190	3.190	0mm	1	-73.8	-204	143.9	5.16	0.08	Not required
Ant5		1.969	1.971	0mm	12.9	69.6	-204				
NFC		0.002		0mm							
Ant2	Front	3.190	3.190	0mm	1	-73.8	-204	158.3	5.16	0.07	Not required



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Ant5		1.969	1.971	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.8 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Front	3.190	3.190	0mm	1	-73.8	-204	111.4	4.86	0.10	Not required
Ant6		1.664	1.666	0mm	12.2	37	-204				
NFC		0.002		0mm							
Ant2	Front	3.190	3.190	0mm	1	-73.8	-204	158.3	4.86	0.07	Not required
Ant6		1.664	1.666	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.9 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Front	3.190	3.190	0mm	1	-73.8	-204	158.7	5.95	0.09	Not required
Ant7		2.754	2.756	0mm	-64	71	-204				
NFC		0.002		0mm							
Ant2	Front	3.190	3.190	0mm	1	-73.8	-204	158.3	5.95	0.09	Not required
Ant7		2.754	2.756	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.10 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Front	3.190	3.190	0mm	1	-73.8	-204	151.8	5.13	0.08	Not required
WLAN5GHz Ant4+5		1.941	1.943	0mm	4	78	-204				
NFC		0.002		0mm							
Ant2	Front	3.190	3.190	0mm	1	-73.8	-204	158.3	5.13	0.07	Not required
WLAN5GHz Ant4+5		1.941	1.943	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.11 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Front	2.497	2.497	0mm	14	-60	-204	153.3	4.93	0.07	Not required
Ant1		2.426	2.428	0mm	-63.9	72	-204				
NFC		0.002		0mm							
Ant8	Front	2.497	2.497	0mm	14	-60	-204	151.8	4.93	0.07	Not required
Ant1		2.426	2.428	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.12 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Front	2.497	2.497	0mm	14	-60	-204	129.6	4.47	0.07	Not required
Ant5		1.969	1.971	0mm	12.9	69.6	-204				
NFC		0.002		0mm							
Ant8	Front	2.497	2.497	0mm	14	-60	-204	151.8	4.47	0.06	Not required
Ant5		1.969	1.971	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.13 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Front	2.497	2.497	0mm	14	-60	-204	97.0	4.16	0.09	Not required
Ant6		1.664	1.666	0mm	12.2	37	-204				
NFC		0.002		0mm							
Ant8	Front	2.497	2.497	0mm	14	-60	-204	151.8	4.16	0.06	Not required
Ant6		1.664	1.666	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.14 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Front	2.497	2.497	0mm	14	-60	-204	152.5	5.25	0.08	Not required
Ant7		2.754	2.756	0mm	-64	71	-204				
NFC		0.002		0mm							
Ant8	Front	2.497	2.497	0mm	14	-60	-204	151.8	5.25	0.08	Not required



Ant7		2.754	2.756	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				
No.15 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Front	2.497	2.497	0mm	14	-60	-204	138.4	4.44	0.07	Not required
WLAN5GHz Ant4+5		1.941	1.943	0mm	4	78	-204				
NFC		0.002		0mm							
Ant8	Front	2.497	2.497	0mm	14	-60	-204	151.8	4.44	0.06	Not required
WLAN5GHz Ant4+5		1.941	1.943	0mm							
NFC		0.002		0mm	-61.6	71.6	-204				

No.16 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.159	3.159	0mm	6.5	-80.5	-204	161.4	6.37	0.10	Not required
Ant1		3.204	3.211	0mm	2	80.8	-204				
NFC		0.007		0mm							
Ant0	Back	3.159	3.159	0mm	6.5	-80.5	-204	161.5	6.37	0.10	Not required
Ant1		3.204	3.211	0mm							
NFC		0.007		0mm	12.9	80.9	-204				
No.17 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.159	3.159	0mm	6.5	-80.5	-204	159.7	6.35	0.10	Not required
Ant7		3.188	3.195	0mm	14	79	-204				
NFC		0.007		0mm							
Ant0	Back	3.159	3.159	0mm	6.5	-80.5	-204	161.5	6.35	0.10	Not required
Ant7		3.188	3.195	0mm							
NFC		0.007		0mm	12.9	80.9	-204				
No.18 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.159	3.159	0mm	6.5	-80.5	-204	134.2	4.07	0.06	Not required
WLAN2.4GHz Ant3+6		0.899	0.906	0mm	-52.6	40	-204				
NFC		0.007		0mm							
Ant0	Back	3.159	3.159	0mm	6.5	-80.5	-204	161.5	4.07	0.05	Not required
WLAN2.4GHz Ant3+6		0.899	0.906	0mm							
NFC		0.007		0mm	12.9	80.9	-204				
No.19 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	3.179	3.179	0mm	-14	-78	-204	159.5	6.39	0.10	Not required
Ant1		3.204	3.211	0mm	-7	81.3	-204				
NFC		0.007		0mm							
Ant2	Back	3.179	3.179	0mm	-14	-78	-204	161.2	6.39	0.10	Not required
Ant1		3.204	3.211	0mm							
NFC		0.007		0mm	12.9	80.9	-204				
No.20 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	3.179	3.179	0mm	-14	-78	-204	127.6	4.00	0.06	Not required
Ant6		0.818	0.825	0mm	-65	39	-204				
NFC		0.007		0mm							
Ant2	Back	3.179	3.179	0mm	-14	-78	-204	161.2	4.00	0.05	Not required
Ant6		0.818	0.825	0mm							
NFC		0.007		0mm	12.9	80.9	-204				
No.21 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	3.179	3.179	0mm	-14	-78	-204	159.5	6.37	0.10	Not required
Ant7		3.188	3.195	0mm	14	79	-204				
NFC		0.007		0mm							

Ant2	Back	3.179	3.179	0mm	-14	-78	-204	161.2	6.37	0.10	Not required
Ant7		3.188	3.195	0mm							
NFC		0.007		0mm	12.9	80.9	-204				
No.22 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	3.179	3.179	0mm	-14	-78	-204	124.2	4.09	0.07	Not required
WLAN2.4GHz Ant3+6		0.899	0.906	0mm	-52.6	40	-204				
NFC		0.007		0mm							
Ant2	Back	3.179	3.179	0mm	-14	-78	-204	161.2	4.09	0.05	Not required
WLAN2.4GHz Ant3+6		0.899	0.906	0mm							
NFC		0.007		0mm	12.9	80.9	-204				
No.23 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Back	1.427	1.427	0mm	-65	-60	-204	152.7	4.64	0.07	Not required
Ant1		3.204	3.211	0mm	-7	81.3	-204				
NFC		0.007		0mm							
Ant8	Back	1.427	1.427	0mm	-65	-60	-204	161.0	4.64	0.06	Not required
Ant1		3.204	3.211	0mm							
NFC		0.007		0mm	12.9	80.9	-204				
No.24 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Back	1.427	1.427	0mm	-65	-60	-204	159.8	4.62	0.06	Not required
Ant7		3.188	3.195	0mm	12	80	-204				
NFC		0.007		0mm							
Ant8	Back	1.427	1.427	0mm	-65	-60	-204	161.0	4.62	0.06	Not required
Ant7		3.188	3.195	0mm							
NFC		0.007		0mm	12.9	80.9	-204				

No.25 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Left Side	1.976	1.976	0mm	-24.3	-60	-204	119.8	4.41	0.08	Not required
Ant1		2.429	2.430	0mm	-24.6	59.8	-204				
NFC		0.001		0mm							
Ant0	Left Side	1.976	1.976	0mm	-24.3	-60	-204	120.2	4.41	0.08	Not required
Ant1		2.429	2.430	0mm							
NFC		0.001		0mm	-20.5	60.1	-204				
No.26 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Left Side	1.976	1.976	0mm	-24.3	-60	-204	118.1	4.95	0.09	Not required
Ant7		2.970	2.971	0mm	-25	58.1	-204				
NFC		0.001		0mm							
Ant0	Left Side	1.976	1.976	0mm	-24.3	-60	-204	120.2	4.95	0.09	Not required
Ant7		2.970	2.971	0mm							
NFC		0.001		0mm	-20.5	60.1	-204				

No.27 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Right Side	3.168	3.168	0mm	-25	72.3	-204	161.3	6.32	0.10	Not required
Ant5		3.155	3.156	0mm	-23.4	-89	-204				
NFC		0.001		0mm							
Ant8	Right Side	3.168	3.168	0mm	-25	72.3	-204	160.1	6.32	0.10	Not required
Ant5		3.155	3.156	0mm							
NFC		0.001		0mm	-25.9	-87.8	-204				
No.28 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Right Side	3.168	3.168	0mm	-25	72.3	-204	160.3	6.31	0.10	Not required
Ant6		3.144	3.145	0mm	-24.3	-88	-204				
NFC		0.001		0mm							
Ant8	Right Side	3.168	3.168	0mm	-25	72.3	-204	160.1	6.31	0.10	Not required
Ant6		3.144	3.145	0mm							
NFC		0.001		0mm	-25.9	-87.8	-204				
No.29 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Right Side	3.168	3.168	0mm	-25	72.3	-204	150.3	5.59	0.09	Not required
Bluetooth Ant6		2.420	2.421	0mm	-23.9	-78	-204				
NFC		0.001		0mm							
Ant8	Right Side	3.168	3.168	0mm	-25	72.3	-204	160.1	5.59	0.08	Not required
Bluetooth Ant6		2.420	2.421	0mm							
NFC		0.001		0mm	-25.9	-87.8	-204				
No.30 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Right Side	3.168	3.168	0mm	-25	72.3	-204	159.3	6.33	0.10	Not required
WLAN2.4GHz Ant3+6		3.164	3.165	0mm	-23.6	-87	-204				
NFC		0.001		0mm							
Ant8	Right Side	3.168	3.168	0mm	-25	72.3	-204	160.1	6.33	0.10	Not required
WLAN2.4GHz Ant3+6		3.164	3.165	0mm							
NFC		0.001		0mm	-25.9	-87.8	-204				
No.31 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant8	Right Side	3.168	3.168	0mm	-25	72.3	-204	161.3	6.26	0.10	Not required
WLAN5GHz Ant4+5		3.091	3.092	0mm	-24.3	-89	-204				
NFC		0.001		0mm							
Ant8	Right Side	3.168	3.168	0mm	-25	72.3	-204	160.1	6.26	0.10	Not required
WLAN5GHz Ant4+5		3.091	3.092	0mm							
NFC		0.001		0mm	-25.9	-87.8	-204				

17.8 Maximum Reported SAR and SAR Peak Locations

General Note:

1. The maximum reported 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 (x, y, z) evaluation is mm.

<Head>

Right Cheek									
Band		Ant1			Ant7			Ant8	
GSM850	SAR (W/kg)	1.27							
	Axis	30.0	-331.1	-171.6					
GSM1900	SAR (W/kg)	1.271							
	Axis	31.9	-343.5	-170.3					
WCDMA II	SAR (W/kg)	1.295							
	Axis	31.9	-343.5	-170.3					
WCDMA IV	SAR (W/kg)	1.289							
	Axis	32.7	-344.8	-170.2					
WCDMA V	SAR (W/kg)	1.165							
	Axis	28.6	-328.6	-171.8					
LTE Band 71	SAR (W/kg)	0.634							
	Axis	30.0	-331.1	-171.6					
LTE Band 12	SAR (W/kg)	0.949							
	Axis	29.3	-329.8	-171.8					
LTE Band 25	SAR (W/kg)	1.28							
	Axis	32.7	-344.8	-170.2					
LTE Band 7	SAR (W/kg)	1.269							
	Axis	27.2	-339.2	-170.9					
LTE Band 26	SAR (W/kg)	1.284							
	Axis	29.3	-329.8	-171.8					
LTE Band 66	SAR (W/kg)	1.278							
	Axis	32.7	-344.8	-170.2					
LTE Band 41	SAR (W/kg)	1.291							
	Axis	32.4	-336.5	-173.4					
LTE Band 42	SAR (W/kg)				1.299				
	Axis				56.8	-323.7	-170.5		
LTE Band 48	SAR (W/kg)				1.287				
	Axis				56.9	-325.3	-172.7		
FR1 n70	SAR (W/kg)	1.284							
	Axis	31.9	-345.5	-170.0					
FR1 n71	SAR (W/kg)	0.672							
	Axis	28.3	-327.1	-171.8					
FR1 n25	SAR (W/kg)	1.282							
	Axis	31.2	-344.3	-170.2					
FR1 n7	SAR (W/kg)	1.277							
	Axis	32.4	-338.4	-170.9					
FR1 n26	SAR (W/kg)	1.059							
	Axis	31.0	-329.0	-171.8					
FR1 n66	SAR (W/kg)	1.284							
	Axis	31.9	-345.5	-170.0					
FR1 n41	SAR (W/kg)	1.284							
	Axis	33.8	-338.8	-170.9					
FR1 n77 Part 270	SAR (W/kg)				1.291			0.84	
	Axis				50.8	-326.5	-171.1	50.3	-250.0 -171.6



Left Cheek																
Band		Ant0			Ant2			Ant4			Ant5			Ant8		
GSM850	SAR (W/kg)	0.287														
	Axis	49.8	253.0	-171.8												
GSM1900	SAR (W/kg)				0.092											
	Axis				60.6	242.9	-168.9									
WCDMA II	SAR (W/kg)				0.136											
	Axis				60.6	242.9	-168.9									
WCDMA IV	SAR (W/kg)				0.161											
	Axis				55.5	244.2	-168.9									
WCDMA V	SAR (W/kg)	0.306														
	Axis	50.2	253.2	-171.8												
LTE Band 71	SAR (W/kg)	0.144														
	Axis	50.6	254.8	-171.8												
LTE Band 12	SAR (W/kg)	0.175														
	Axis	50.6	254.8	-171.8												
LTE Band 13	SAR (W/kg)	0.21														
	Axis	52.8	266.3	-174.1												
LTE Band 25	SAR (W/kg)	0.091			0.153											
	Axis	50.9	254.8	-171.8	60.6	242.9	-168.9									
LTE Band 7	SAR (W/kg)	0.098			0.15											
	Axis	55.3	252.0	-171.8	55.5	243.9	-170.0									
LTE Band 26	SAR (W/kg)	0.311														
	Axis	50.2	253.2	-171.8												
LTE Band 66	SAR (W/kg)	0.085			0.163											
	Axis	50.4	255.3	-171.8	56.3	244.2	-168.9									
LTE Band 41	SAR (W/kg)	0.078			0.048											
	Axis	55.0	252.0	-171.8	55.5	243.9	-170.0									
LTE Band 42	SAR (W/kg)										1.282					
	Axis										33.3	338.1	-173.9			
LTE Band 48	SAR (W/kg)										1.296					
	Axis										27.6	340.3	-173.7			
FR1 n70	SAR (W/kg)				0.138											
	Axis				55.5	244.2	-168.9									
FR1 n71	SAR (W/kg)	0.119														
	Axis	56.1	261.0	-171.8												
FR1 n25	SAR (W/kg)				0.095											
	Axis				60.6	242.9	-168.9									
FR1 n7	SAR (W/kg)				0.137											
	Axis				56.0	243.4	-170.0									
FR1 n26	SAR (W/kg)	0.253														
	Axis	49.9	252.8	-171.8												
FR1 n66	SAR (W/kg)				0.129											
	Axis				55.8	244.4	-168.9									
FR1 n41	SAR (W/kg)	0.134			0.118											
	Axis	55.5	254.0	-171.8	55.8	243.6	-170.0									
FR1 n77 Part 270	SAR (W/kg)							1.293			1.293			0.564		
	Axis							15.7	325.3	84.3	279.3	-172.4	-170.6	84.3	309.3	-172.4

Bluetooth Ant6	SAR (W/kg)		1.289			WLAN2.4GHz Ant3+6	SAR (W/kg)		1.441			Bluetooth Ant3	SAR (W/kg)		0.14	
	Axis	57.7	328.9	-172.5			Axis	25.7	334.8	-172.8			Axis	17.5	328.6	-172.8



<Hotspot>

		Front											
Band		Ant0			Ant1			Ant2			Ant5		
GSM850	SAR (W/kg)	0.73			0.734								
	Axis	-53.2	-73.5	-204.0	-62.0	-73.8	-204.0						
GSM1900	SAR (W/kg)				0.82			1.012					
	Axis				-66.0	-74.1	-204.0	1.0	-73.8	-204.0			
WCDMA II	SAR (W/kg)				0.761			0.635					
	Axis				-63.5	-75.6	-204.0	0.7	-74.7	-204.0			
WCDMA IV	SAR (W/kg)				0.755			0.768					
	Axis				-64.2	-74.5	-204.0	1.5	-74.6	-204.0			
WCDMA V	SAR (W/kg)	0.852			0.787								
	Axis	-53.4	-73.5	-204.0	-63.9	-73.9	-204.0						
LTE Band 71	SAR (W/kg)	0.482			0.222								
	Axis	-53.8	-75.0	-204.0	-65.5	-73.0	-204.0						
LTE Band 12	SAR (W/kg)	0.818			0.546								
	Axis	-53.2	-75.0	-204.0	-65.5	-73.5	-204.0						
LTE Band 13	SAR (W/kg)	0.786											
	Axis	-53.6	-75.0	-204.0									
LTE Band 25	SAR (W/kg)	0.705			0.747			0.765					
	Axis	-53.8	-72.0	-204.0	-63.9	-72.0	-204.0	0.6	-74.0	-204.0			
LTE Band 7	SAR (W/kg)	0.434			0.778			0.607					
	Axis	-54.0	-70.2	-204.0	-66.0	-71.9	-204.0	1.5	-77.8	-204.0			
LTE Band 26	SAR (W/kg)	0.935			0.895								
	Axis	-53.5	-73.5	-204.0	-64.5	-71.5	-204.0						
LTE Band 66	SAR (W/kg)	0.591			0.765			0.833					
	Axis	-55.1	-74.0	-204.0	-66.5	-72.5	-204.0	1.0	-76.9	-204.0			
LTE Band 41	SAR (W/kg)	0.434			0.677			0.637					
	Axis	-53.5	-71.0	-204.0	-65.5	-73.3	-204.0	1.2	-76.5	-204.0			
LTE Band 42	SAR (W/kg)							0.743			0.709		
	Axis										12.8	-76.5	-204.0
LTE Band 48	SAR (W/kg)							0.86			0.807		
	Axis										13.0	-78.5	-204.0
FR1 n70	SAR (W/kg)				0.81			0.857					
	Axis				-70.0	-76.5	-204.0	0.8	-76.0	-204.0			
FR1 n71	SAR (W/kg)	0.489			0.208								
	Axis	-53.5	-75.0	-204.0	-65.5	-73.5	-204.0						
FR1 n25	SAR (W/kg)				0.762			0.925					
	Axis				-68.1	-74.5	-204.0	1.1	-75.9	-204.0			
FR1 n7	SAR (W/kg)				0.631			0.553					
	Axis				-66.5	-73.9	-204.0	0.5	-74.5	-204.0			
FR1 n26	SAR (W/kg)	0.918			0.674								
	Axis	-53.5	-73.5	-204.0	-64.8	-75.5	-204.0						
FR1 n66	SAR (W/kg)				0.751			0.854					
	Axis				-63.0	-76.0	-204.0	0.5	-76.5	-204.0			
FR1 n41	SAR (W/kg)	0.739			0.64			0.633					
	Axis	-54.0	-70.0	-204.0	-68.9	-76.5	-204.0	2.0	-74.5	-204.0			
FR1 n77 Part 270	SAR (W/kg)							0.722			0.625		
	Axis										12.9	-75.6	-204.0
WLAN5GHz Ant5+4	SAR (W/kg)	0.62											
	Axis	4	78	-204									

Bluetooth Ant6	SAR (W/kg)		0.604			Bluetooth Ant3	SAR (W/kg)		0.303	
	Axis	8.9	46	-204			Axis	9.5	83.2	-204



Back																										
Band		Ant0			Ant1			Ant2			Ant4			Ant5			Ant6			Ant7			Ant8			
GSM850	SAR (W/kg)	1.183			0.996																					
	Axis	3.5	-81.5	-204.0	-10.0	70.5	-204.0																			
GSM1900	SAR (W/kg)				1.293			1.123																		
	Axis				2.0	85.5	-204.0	-40.0	-73.5	-204.0																
WCDMA II	SAR (W/kg)				1.277			0.712																		
	Axis				3.5	88.5	-204.0	-41.5	-72.0	-204.0																
WCDMA IV	SAR (W/kg)				1.284			0.857																		
	Axis				5.0	88.5	-204.0	-41.5	-73.5	-204.0																
WCDMA V	SAR (W/kg)	1.165			1.245																					
	Axis	2.0	-85.0	-204.0	-7.0	69.0	-204.0																			
LTE Band 71	SAR (W/kg)	0.668			0.405																					
	Axis	-7.0	-88.5	-204.0	-2.5	69.0	-204.0																			
LTE Band 12	SAR (W/kg)	1.1			0.99																					
	Axis	-8.5	-80.0	-204.0	2.0	88.5	-204.0																			
LTE Band 13	SAR (W/kg)	1.133																								
	Axis	18.0	-80.0	-204.0																						
LTE Band 25	SAR (W/kg)	1.012			1.293			1.003									0.578									
	Axis	5.0	-80.0	-204.0	3.5	88.5	-204.0	-40.0	-73.5	-204.0							-67.3	44.0	-204.0							
LTE Band 7	SAR (W/kg)	0.468			1.296			1.057									0.606									
	Axis	6.6	-78.0	-204.0	9.8	79.8	-204.0	-15.4	-75.0	-204.0							-68.5	42.5	-204.0							
LTE Band 26	SAR (W/kg)	1.296			1.284																					
	Axis	18.5	-85.0	-204.0	-8.5	72.0	-204.0																			
LTE Band 66	SAR (W/kg)	0.996			1.277			0.948									0.549									
	Axis	18.5	-66.5	-204.0	5.0	88.5	-204.0	-41.5	-73.5	-204.0							-66.4	42.5	-204.0							
LTE Band 41	SAR (W/kg)	0.437			1.1			0.987									0.481									
	Axis	6.2	-79.0	-204.0	9.8	78.0	-204.0	-11.8	-73.0	-204.0							-68.2	43.0	-204.0							
LTE Band 42	SAR (W/kg)													0.738						0.759						
	Axis													-66.0	69.0	-204.0				14.0	49.0	-204.0				
LTE Band 48	SAR (W/kg)													0.773						0.846						
	Axis													-66.0	75.0	-204.0				14.0	49.0	-204.0				
FR1 n70	SAR (W/kg)				1.272			0.985																		
	Axis				5.0	76.5	-204.0	-40.0	-73.5	-204.0																
FR1 n71	SAR (W/kg)	0.706			0.354																					
	Axis	5.0	-85.0	-204.0	-8.5	84.0	-204.0																			
FR1 n25	SAR (W/kg)				1.282			0.952																		
	Axis				2.0	85.5	-204.0	-41.5	-72.0	-204.0																
FR1 n7	SAR (W/kg)				1.293			0.859																		
	Axis				5.0	79.0	-204.0	-14.0	-71.0	-204.0																
FR1 n26	SAR (W/kg)	1.188			1.119																					
	Axis	18.5	-78.5	-204.0	-10.0	87.0	-204.0																			
FR1 n66	SAR (W/kg)				1.281			0.886																		
	Axis				5.0	76.5	-204.0	-53.0	-73.5	-204.0																
FR1 n41	SAR (W/kg)	0.703			1.237			0.789									0.592									
	Axis	6.5	-79.3	-204.0	9.0	71.0	-204.0	-15.0	-80.0	-204.0							-65.0	39.0	-204.0							
FR1 n77 Part 270	SAR (W/kg)										0.581			0.865						0.75			0.629			
	Axis										-18.0	88.0	-204.0	-65.0	80.0	-204.0				12.0	50.0	-204.0	-65.0	-60.0	-204.0	
WLAN5Ghz Ant5+4	SAR (W/kg)	0.773			WLAN2.4Ghz Ant3+6			SAR (W/kg) 0.689																		
	Axis	-65	51	-204				-52.6	40	-204																
Bluetooth Ant6		SAR (W/kg)			0.829								Bluetooth Ant3		SAR (W/kg)			0.254								
		Axis			-69.4 41 -204										Axis			-10.6 69 -204								



Left Side														
Band		Ant0			Ant1			Ant2			Ant7			
GSM850	SAR (W/kg)	0.964			0.74									
	Axis	-24.3	-68.0	-204.0	-25.1	62.9	-204.0							
GSM1900	SAR (W/kg)				0.98			0.448						
	Axis				-24.1	67.1	-204.0	-23.3	-49.1	-204.0				
WCDMA II	SAR (W/kg)				0.886			0.242						
	Axis				-24.3	67.6	-204.0	-22.9	-51.3	-204.0				
WCDMA IV	SAR (W/kg)				0.925			0.184						
	Axis				-26.2	61.6	-204.0	-28.1	-54.6	-204.0				
WCDMA V	SAR (W/kg)	0.998			1.185									
	Axis	-22.9	-67.0	-204.0	-24.6	59.8	-204.0							
LTE Band 71	SAR (W/kg)	0.793			0.462									
	Axis	-23.2	-63.6	-204.0	-25.2	56.4	-204.0							
LTE Band 12	SAR (W/kg)	1.233			0.728									
	Axis	-25.0	-61.5	-204.0	-24.6	55.8	-204.0							
LTE Band 13	SAR (W/kg)	1.091												
	Axis	-26.3	-63.2	-204.0										
LTE Band 25	SAR (W/kg)	1.271			0.977			0.237						
	Axis	-24.4	-62.6	-204.0	-25.2	69.3	-204.0	-26.1	-47.7	-204.0				
LTE Band 7	SAR (W/kg)	1.281			1.29			0.167						
	Axis	-24.3	-70.0	-204.0	-25.0	69.9	-204.0	-25.6	-48.1	-204.0				
LTE Band 26	SAR (W/kg)	1.048			1.036									
	Axis	-23.3	-64.9	-204.0	-25.6	63.3	-204.0							
LTE Band 66	SAR (W/kg)	1.282			0.982			0.225						
	Axis	-24.9	-63.7	-204.0	-26.1	61.8	-204.0	-25.0	-54.1	-204.0				
LTE Band 41	SAR (W/kg)	1.187			1.285			0.097						
	Axis	-26.2	-64.0	-204.0	-28.5	69.0	-204.0	-29.3	-59.1	-204.0				
LTE Band 42	SAR (W/kg)										1.288			
	Axis										-27.4	50.0	-204.0	
LTE Band 48	SAR (W/kg)										1.298			
	Axis										-26.6	52.0	-204.0	
FR1 n70	SAR (W/kg)				1.039			0.229						
	Axis				-26.9	60.3	-204.0	-23.0	-44.3	-204.0				
FR1 n71	SAR (W/kg)	0.693			0.424									
	Axis	-24.3	-63.5	-204.0	-25.7	58.5	-204.0							
FR1 n25	SAR (W/kg)				1.008			0.352						
	Axis				-25.7	69.0	-204.0	-25.0	-48.3	-204.0				
FR1 n7	SAR (W/kg)				1.156			0.132						
	Axis				-25.0	70.0	-204.0	-25.0	-40.4	-204.0				
FR1 n26	SAR (W/kg)	1.181			0.694									
	Axis	-23.6	-65.0	-204.0	-25.0	63.6	-204.0							
FR1 n66	SAR (W/kg)				0.747			0.225						
	Axis				-26.6	62.0	-204.0	-25.0	-54.3	-204.0				
FR1 n41	SAR (W/kg)	1.285			1.296			0.082						
	Axis	-22.9	-65.0	-204.0	-28.0	64.0	-204.0	-29.1	-57.6	-204.0				
FR1 n77 Part 270	SAR (W/kg)										1.293			
	Axis										-25.0	48.1	-204.0	



Right Side													
Band		Ant2			Ant5			Ant6			Ant8		
GSM850	SAR (W/kg)												
	Axis												
GSM1900	SAR (W/kg)	0.602											
	Axis	-25.9	66.9	-204.0									
WCDMA II	SAR (W/kg)	0.308											
	Axis	-25.1	68.1	-204.0									
WCDMA IV	SAR (W/kg)	0.383											
	Axis	-26.1	63.2	-204.0									
LTE Band 25	SAR (W/kg)	0.435						1.268					
	Axis	-25.9	68.1	-204.0				-26.4	-39.0	-204.0			
LTE Band 7	SAR (W/kg)	0.214						1.293					
	Axis	-26.1	67.3	-204.0				-24.3	-42.0	-204.0			
LTE Band 26	SAR (W/kg)												
	Axis												
LTE Band 66	SAR (W/kg)	0.441						1.286					
	Axis	-25.1	66.1	-204.0				-26.4	-39.0	-204.0			
LTE Band 41	SAR (W/kg)	0.187						1.29					
	Axis	-26.3	68.2	-204.0				-25.9	-41.4	-204.0			
LTE Band 42	SAR (W/kg)				1.296								
	Axis				-23.4	-69.0	-204.0						
LTE Band 48	SAR (W/kg)				1.295								
	Axis				-24.2	-70.0	-204.0						
FR1 n70	SAR (W/kg)	0.475											
	Axis	-24.3	65.1	-204.0									
FR1 n71	SAR (W/kg)												
	Axis												
FR1 n25	SAR (W/kg)	0.529											
	Axis	-25.0	68.6	-204.0									
FR1 n7	SAR (W/kg)	0.23											
	Axis	-25.0	67.8	-204.0									
FR1 n26	SAR (W/kg)												
	Axis												
FR1 n66	SAR (W/kg)	0.414											
	Axis	-25.1	66.9	-204.0									
FR1 n41	SAR (W/kg)	0.199						1.038					
	Axis	-26.6	68.1	-204.0				-25.0	-45.1	-203.0			
FR1 n77 Part 270	SAR (W/kg)				1.284						1.293		
	Axis				-25.0	-61.7	-203.0				-25.0	66.6	-204.0
WLAN5GHz Ant5+4	SAR (W/kg)	1.178				WLAN2.4GHz Ant3+6	SAR (W/kg)	1.442					
	Axis	-24.3	-69	-204			Axis	-23.6	-59	-204			

Bluetooth Ant6	SAR (W/kg)	1.258				Bluetooth Ant3	SAR (W/kg)	0.135		
	Axis	-23.9	-58	-204			Axis	-24.5	-80	-204



<Body-worn>

Front																													
Band		Ant0			Ant1			Ant2			Ant4			Ant5			Ant6			Ant7			Ant8						
GSM850	SAR (W/kg)	0.73			0.734																								
	Axis	53.2	73.5	-204.0	62.0	73.8	-204.0																						
GSM1900	SAR (W/kg)				0.82			1.179																					
	Axis				66.0	74.1	-204.0	1.0	73.8	-204.0																			
WCDMA II	SAR (W/kg)				0.761			1.177																					
	Axis				63.5	75.6	-204.0	0.7	74.7	-204.0																			
WCDMA IV	SAR (W/kg)				0.755			1.144																					
	Axis				64.2	74.5	-204.0	1.5	74.6	-204.0																			
WCDMA V	SAR (W/kg)	0.852			0.787																								
	Axis	53.4	73.5	-204.0	63.9	73.9	-204.0																						
LTE Band 71	SAR (W/kg)	0.546			0.361																								
	Axis	53.8	75.0	-204.0	65.5	73.0	-204.0																						
LTE Band 12	SAR (W/kg)	0.585			0.546																								
	Axis	53.2	75.0	-204.0	65.5	73.5	-204.0																						
LTE Band 13	SAR (W/kg)	0.786																											
	Axis	53.6	75.0	-204.0																									
LTE Band 25	SAR (W/kg)	1.024			0.747			1.082									0.954												
	Axis	53.8	72.0	-204.0	63.9	72.0	-204.0	0.6	74.0	-204.0						12.8	36.1	-204.0											
LTE Band 7	SAR (W/kg)	0.522			0.778			0.731									1.014												
	Axis	54.0	70.2	-204.0	66.0	71.9	-204.0	1.5	77.8	-204.0						12.5	37.5	-204.0											
LTE Band 26	SAR (W/kg)	0.935			0.895																								
	Axis	53.5	73.5	-204.0	64.5	71.5	-204.0																						
LTE Band 66	SAR (W/kg)	0.762			0.765			1.122									0.955												
	Axis	55.1	74.0	-204.0	66.5	72.5	-204.0	1.0	76.9	-204.0						12.6	36.3	-204.0											
LTE Band 41	SAR (W/kg)	0.484			0.801			0.833									0.545												
	Axis	53.5	71.0	-204.0	65.5	73.3	-204.0	1.2	76.5	-204.0						12.0	36.8	-204.0											
LTE Band 42	SAR (W/kg)													0.884						1.175									
	Axis													12.8	76.5	-204.0				-63.5	42.0	-204.0							
LTE Band 48	SAR (W/kg)													1.286						1.221									
	Axis													13.0	78.5	-204.0				-64.3	43.0	-204.0							
FR1 n70	SAR (W/kg)				0.81			1.118																					
	Axis				70.0	76.5	-204.0	0.8	76.0	-204.0																			
FR1 n71	SAR (W/kg)	0.489			0.244																								
	Axis	53.5	75.0	-204.0	65.5	73.5	-204.0																						
FR1 n25	SAR (W/kg)				0.762			1.247																					
	Axis				68.1	74.5	-204.0	1.1	75.9	-204.0																			
FR1 n7	SAR (W/kg)				0.631			0.827																					
	Axis				66.5	73.9	-204.0	0.5	74.5	-204.0																			
FR1 n26	SAR (W/kg)	0.918			0.674																								
	Axis	53.5	73.5	-204.0	64.8	75.5	-204.0																						
FR1 n66	SAR (W/kg)				0.75			1.242																					
	Axis				63.0	76.0	-204.0	0.5	76.5	-204.0																			
FR1 n41	SAR (W/kg)	0.733			0.666			1.058									0.694												
	Axis	54.0	70.0	-204.0	68.9	76.5	-204.0	2.0	74.5	-204.0						12.2	37.0	-204.0											
FR1 n77 Part 270	SAR (W/kg)										1.103			1.073						1.062			1.284						
	Axis										-34.0	80.0	-204.0	12.9	75.6	-204.0				-64.0	41.0	-204.0	14.0	-60.0	-204.0				
WLAN5GHz Ant5+4	SAR (W/kg)	0.753				WLAN2.4GHz Ant3+6		SAR (W/kg)	0.752																				
	Axis	4	78	-204				8.6	45	-204																			
Bluetooth Ant6		SAR (W/kg)						0.701									Bluetooth Ant3			SAR (W/kg)						0.194			
		Axis			8.9			46			-204						Axis			9.5			83.2			-204			



Back																																	
Band		Ant0			Ant1			Ant2			Ant4			Ant5			Ant6			Ant7			Ant8										
GSM850	SAR (W/kg)	1.182			0.996																												
	Axis	3.5	-81.5	-204.0	10.0	70.5	-204.0																										
GSM1900	SAR (W/kg)				1.293			1.278																									
	Axis				2.0	85.5	-204.0	40.0	-73.5	-204.0																							
WCDMA II	SAR (W/kg)				1.277			1.275																									
	Axis				3.5	88.5	-204.0	41.5	-72.0	-204.0																							
WCDMA IV	SAR (W/kg)				1.284			1.274																									
	Axis				5.0	88.5	-204.0	41.5	-73.5	-204.0																							
WCDMA V	SAR (W/kg)	1.165			1.245																												
	Axis	2.0	-85.0	-204.0	-7.0	69.0	-204.0																										
LTE Band 71	SAR (W/kg)	0.757			0.659																												
	Axis	-7.0	-88.5	-204.0	-2.5	69.0	-204.0																										
LTE Band 12	SAR (W/kg)	0.787			0.99																												
	Axis	-8.5	-80.0	-204.0	2.0	88.5	-204.0																										
LTE Band 13	SAR (W/kg)	1.133																															
	Axis	18.0	-80.0	-204.0																													
LTE Band 25	SAR (W/kg)	1.29			1.293			1.275						0.999																			
	Axis	5.0	-80.0	-204.0	3.5	88.5	-204.0	40.0	-73.5	-204.0					-67.3	44.0	-204.0																
LTE Band 7	SAR (W/kg)	0.563			1.296			1.274						1.124																			
	Axis	6.6	-78.0	-204.0	9.8	79.8	-204.0	15.4	-75.0	-204.0					-68.5	42.5	-204.0																
LTE Band 26	SAR (W/kg)	1.296			1.284																												
	Axis	18.5	-85.0	-204.0	-8.5	72.0	-204.0																										
LTE Band 66	SAR (W/kg)	1.286			1.277			1.278						1.004																			
	Axis	18.5	-66.5	-204.0	5.0	88.5	-204.0	41.5	-73.5	-204.0					-66.4	42.5	-204.0																
LTE Band 41	SAR (W/kg)	0.67			1.287			1.29						1.045																			
	Axis	6.2	-79.0	-204.0	9.8	78.0	-204.0	11.8	-73.0	-204.0					-68.2	43.0	-204.0																
LTE Band 42	SAR (W/kg)													0.913						1.282													
	Axis													-66.0	69.0	-204.0				14.0	49.0	-204.0											
LTE Band 48	SAR (W/kg)													1.219						1.282													
	Axis													-66.0	75.0	-204.0				14.0	49.0	-204.0											
FR1 n70	SAR (W/kg)				1.272			1.285																									
	Axis				5.0	76.5	-204.0	40.0	-73.5	-204.0																							
FR1 n71	SAR (W/kg)	0.706			0.416																												
	Axis	5.0	-85.0	-204.0	-8.5	84.0	-204.0																										
FR1 n25	SAR (W/kg)				1.282			1.284																									
	Axis				2.0	85.5	-204.0	41.5	-72.0	-204.0																							
FR1 n7	SAR (W/kg)				1.293			1.284																									
	Axis				5.0	79.0	-204.0	14.0	-71.0	-204.0																							
FR1 n26	SAR (W/kg)	1.188			1.119																												
	Axis	18.5	-78.5	-204.0	10.0	87.0	-204.0																										
FR1 n66	SAR (W/kg)				1.28			1.288																									
	Axis				5.0	76.5	-204.0	53.0	-73.5	-204.0																							
FR1 n41	SAR (W/kg)	0.7			1.294			1.296						1.037																			
	Axis	6.5	-79.3	-204.0	9.0	71.0	-204.0	15.0	-80.0	-204.0					-65.0	39.0	-204.0																
FR1 n77 Part 270	SAR (W/kg)										1.229			1.286						1.275			1.184										
	Axis										-18.0	88.0	-204.0	65.0	80.0	-204.0				12.0	50.0	-204.0	-65.0	-60.0	-204.0								
WLAN5GHz Ant5+4	SAR (W/kg)	1.161			WLAN2.4GHz Ant3+6			SAR (W/kg)			1.259																						
	Axis	-65	51	-204				Axis	-52.6	40	-204																						
Bluetooth Ant6	SAR (W/kg)				0.961						WLAN6GHz Ant5+4			SAR (W/kg)			0.681						Bluetooth Ant3	SAR (W/kg)			0.23						
	Axis				-69.4			41			-204						-59			59.5				-204			-10.6			69			-204



<Extremity>

Front																							
Band		Ant0			Ant1			Ant2			Ant5			Ant6			Ant7			Ant8			
GSM1900	SAR (W/kg)				1.623			2.153															
	Axis				-66.0	74.1	-204.0	1.0	-73.8	-204.0													
WCDMA II	SAR (W/kg)				2.26			3.19															
	Axis				-63.5	75.6	-204.0	0.7	-74.7	-204.0													
WCDMA IV	SAR (W/kg)				2.246			3.154															
	Axis				-64.2	74.5	-204.0	1.5	-74.6	-204.0													
LTE Band 25	SAR (W/kg)	2.23			1.822			3.114															
	Axis	-53.8	-72.0	-204.0	-63.9	72.0	-204.0	0.6	-74.0	-204.0													
LTE Band 7	SAR (W/kg)				1.663			1.378						1.505									
	Axis				-66.0	71.9	-204.0	1.5	-77.8	-204.0				12.5	37.5	-204.0							
LTE Band 66	SAR (W/kg)	2.901			2.341			3.093															
	Axis	-55.1	-74.0	-204.0	-66.5	72.5	-204.0	1.0	-76.9	-204.0													
LTE Band 41	SAR (W/kg)				1.724			1.324															
	Axis				-65.5	73.3	-204.0	1.2	-76.5	-204.0													
LTE Band 42	SAR (W/kg)													2.754									
	Axis														-63.5	72.0	-204.0						
LTE Band 48	SAR (W/kg)													2.436									
	Axis														-64.3	73.0	-204.0						
FR1 n70	SAR (W/kg)				2.304			2.28															
	Axis				-70.0	76.5	-204.0	0.8	-76.0	-204.0													
FR1 n25	SAR (W/kg)				2.426			3.091															
	Axis				-68.1	74.5	-204.0	1.1	-75.9	-204.0													
FR1 n7	SAR (W/kg)				1.552			1.566															
	Axis				-66.5	73.9	-204.0	0.5	-74.5	-204.0													
FR1 n66	SAR (W/kg)				2.353			2.726															
	Axis				-63.0	76.0	-204.0	0.5	-76.5	-204.0													
FR1 n41	SAR (W/kg)				1.676			1.459						1.664									
	Axis				-68.9	76.5	-204.0	2.0	-74.5	-204.0				12.2	37.0	-204.0							
FR1 n77 Part 270	SAR (W/kg)										1.969						1.767			2.497			
	Axis										12.9	69.6	-204.0				-64.0	71.0	-204.0	14.0		-60.0	-204.0
WLAN5GHz Ant5+4	SAR (W/kg)	1.941				NFC	SAR (W/kg)	0.002															
	Axis	4	78	-204			Axis	-61.6	71.6	-204													

Back																			
Band		Ant0			Ant1			Ant2			Ant6			Ant7			Ant8		
GSM1900	SAR (W/kg)				2.248			2.206											
	Axis				2.0	85.5	-204.0	-40.0	-79.7	-204.0									
WCDMA II	SAR (W/kg)				3.178			3.075											
	Axis				3.5	88.5	-204.0	-41.5	-80.1	-204.0									
WCDMA IV	SAR (W/kg)				3.131			2.956											
	Axis				5.0	88.5	-204.0	-41.5	-80.2	-204.0									
WCDMA V	SAR (W/kg)	1.747			1.179														
	Axis	2.0	-83.0	-204.0	-7.0	81.3	-204.0												
LTE Band 25	SAR (W/kg)	3.159			2.665			3.062											
	Axis	6.5	-80.5	-204.0	3.5	88.5	-204.0	-40.0	-80.7	-204.0									
LTE Band 7	SAR (W/kg)				3.159			1.742			0.771								
	Axis				9.8	82.8	-204.0	-15.4	-79.8	-204.0	-68.5	42.5	-204.0						
LTE Band 66	SAR (W/kg)	2.914			3.153			3.062											
	Axis	18.5	-81.0	-204.0	5.0	88.5	-204.0	-41.5	-79.5	-204.0									
LTE Band 41	SAR (W/kg)				3.178			1.808											
	Axis				9.8	82.0	-204.0	-11.8	-80.5	-204.0									



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LTE Band 42	SAR (W/kg)													3.128					
	Axis												14.0	79.0	-204.0				
LTE Band 48	SAR (W/kg)													3.183					
	Axis												14.0	79.0	-204.0				
FR1 n70	SAR (W/kg)				3.204			2.241											
	Axis				5.0	84.5	-204.0	-40.0	-80.5	-204.0									
FR1 n25	SAR (W/kg)				3.142			3.179											
	Axis				2.0	85.5	-204.0	-41.5	-80.8	-204.0									
FR1 n7	SAR (W/kg)				3.176			2.042											
	Axis				5.0	81.0	-204.0	-14.0	-78.0	-204.0									
FR1 n66	SAR (W/kg)				3.187			2.433											
	Axis				5.0	81.5	-204.0	-53.0	-80.0	-204.0									
FR1 n41	SAR (W/kg)				3.179			2.006			0.818								
	Axis				9.0	80.8	-204.0	-15.0	-79.6	-204.0	-65.0	39.0	-204.0						
FR1 n77 Part 270	SAR (W/kg)													3.188			1.427		
	Axis													12.0	80.0	-204.0	-65.0	-60.0	-204.0
WLAN2.4GHz Ant3+6	SAR (W/kg)	0.899						NFC	SAR (W/kg)	0.007									
	Axis	-52.6	40.0	-204.0					Axis	12.9	80.9	-204.0							

Left Side										
Band		Ant0			Ant1			Ant7		
GSM1900	SAR (W/kg)				1.551					
	Axis				-24.1	67.1	-204.0			
WCDMA II	SAR (W/kg)				2.414					
	Axis				-24.3	67.6	-204.0			
WCDMA IV	SAR (W/kg)				2.1					
	Axis				-26.2	61.6	-204.0			
WCDMA V	SAR (W/kg)				0.937					
	Axis				-24.6	59.8	-204.0			
LTE Band 25	SAR (W/kg)	1.76			2.198					
	Axis	-24.4	-62.6	-204.0	-25.2	69.3	-204.0			
LTE Band 7	SAR (W/kg)	0.746			2.429					
	Axis	-24.3	-60.0	-204.0	-25.0	69.9	-204.0			
LTE Band 66	SAR (W/kg)	1.976			1.993					
	Axis	-24.9	-63.7	-204.0	-26.1	61.8	-204.0			
LTE Band 41	SAR (W/kg)				2.414					
	Axis				-28.5	69.0	-204.0			
LTE Band 42	SAR (W/kg)							2.911		
	Axis							-27.4	60.0	-204.0
LTE Band 48	SAR (W/kg)							2.97		
	Axis							-26.6	62.0	-204.0
FR1 n70	SAR (W/kg)				2.171					
	Axis				-26.9	60.3	-204.0			
FR1 n25	SAR (W/kg)				2.232					
	Axis				-25.7	69.0	-204.0			
FR1 n7	SAR (W/kg)				2.054					
	Axis				-25.0	70.0	-204.0			
FR1 n66	SAR (W/kg)				2.042					
	Axis				-26.6	62.0	-204.0			
FR1 n41	SAR (W/kg)	1.269			1.955					
	Axis	-22.9	-65.0	-204.0	-28.0	64.0	-204.0			
FR1 n77 Part 270	SAR (W/kg)							2.461		
	Axis							-25.0	58.1	-204.0
NFC	SAR (W/kg)	0.001								



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		Axis	-20.5	60.1	-204.0	
Right Side						
Band		Ant2			Ant5	
WCDMA II	SAR (W/kg)	0.785				
	Axis	-25.1	68.1	-204.0		
LTE Band 25	SAR (W/kg)				3.078	
	Axis				-26.4	-88.5 -204.0
LTE Band 7	SAR (W/kg)				2.971	
	Axis				-24.3	-88.0 -204.0
LTE Band 66	SAR (W/kg)				2.882	
	Axis				-26.4	-88.9 -204.0
LTE Band 41	SAR (W/kg)				2.128	
	Axis				-25.9	-88.4 -204.0
LTE Band 42	SAR (W/kg)				2.883	
	Axis				-23.4	-89.0 -204.0
LTE Band 48	SAR (W/kg)				3.101	
	Axis				-24.2	-90.0 -204.0
FR1 n41	SAR (W/kg)				3.144	
	Axis				-25.0	-88.1 -203.0
FR1 n77 Part 270	SAR (W/kg)				3.155	
	Axis				-25.0	-91.7 -203.0
WLAN5GHz Ant5+4	SAR (W/kg)	3.24			3.164	
	Axis	-24.3	-89	-204	-23.6	-87 -204
Bluetooth Ant6	SAR (W/kg)	2.42			0.001	
	Axis	-23.9	-78	-204	-25.9	-87.8 -204

18. Supplemental Tuner Tests Results

General Note:

1. This device implements impedance tuner antenna tuning techniques, and the number of supported tune codes is different for each frequency band as shown:
 - a. This device implements impedance tuner (208 states) antenna tuning techniques in the LTE Band 5/12/13/17/26 and 5GNR n5/n26/n71 for ANT0.
 - b. This device implements impedance tuner (208 states) antenna tuning techniques in the LTE Band 2/4/5/7/25/26/12/17/66/38/41 and 5GNR n2/n26/n5/n7/n66/n38/n41/n70/n71 for ANT1.
2. According to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced, and 5GNR bands are similar to LTE bands:
 - a. LTE B17 / B5 / B4 / B2 / B38 SAR test was covered by LTE B12 / B26 / B66 / B25 / B41 / B48;
 - b. 5GNR n5 / n38 / n78 SAR test was covered by 5GNR n26 / n41 / n77;
3. 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.
4. 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).
5. Per KDB388624 D02v18r08, for each air interface, exposure condition, and antenna that supports dynamic antenna tuning (DAT), the following procedure shall be followed:
 - 5.1 An area scan is performed with the DUT positioned for the exposure condition with auto-tuner enabled to determine the peak SAR location.
 - 5.2 A single-point SAR measurement (i.e., time sweep) is performed at the peak SAR location of step 5.1 (that is, with auto-tuner enabled). The auto-tuner state shall be recorded, after verifying that it is stable. If fluctuations occur, the scan procedure can be restarted, or the state with the highest SAR needs to be recorded.
 - 5.3 Without moving the probe, or introducing any other perturbation, the auto-tuner shall be disabled, and two other adjacent tune states shall be chosen by increasing and decreasing the state identification number by 1.
 - 5.4 A single point SAR measurement is then performed on both chosen adjacent states and compared with the value of step 5.2. The measured SAR for auto-tuner disabled is expected to be less than or equal to the recorded SAR of step 5.2.
 - a. If the measured SAR is higher beyond documented tolerance, then the auto-tuning feature is not working as intended and is not suitable for compliance. DAT functionality shall be removed or adjusted by the manufacturer.
 - b. If the measured SAR is higher than the value of step 5.2 but within tolerance, the next adjacent state(s) shall be chosen and the measure repeated until a lower SAR value can be shown; otherwise, the DAT is considered inoperative and shall be removed or adjusted by the manufacturer.
 - 5.5 Repeat step 5.2 with auto-tuning enabled as a test for variability within tolerance: the previous measured value in step 5.2 shall be recovered. If the measured SAR is outside the expected tolerance, then the auto-tuning feature is considered not working as intended and not suitable for compliance. DAT functionality shall be removed or adjusted by the manufacturer
6. SAR is measured according to required procedures for each mode of operation with the dynamic tuner active, allowing the DUT to automatically tune and find the best impedance match. The auto-tune state determined by device during normal SAR measurement shall be verified and listed in the reported SAR results. This process is based on single point SAR evaluations to verify that the conditions leading to the largest SAR have been captured. The SAR probe shall remain stationary for the entire series of measurements. The functionality of the tuner configurations is checked to ensure that the tuned state corresponds to the maximum SAR for that particular transmission configuration.
7. If any single-point SAR measurement result is >1.4 W/kg for 1gSAR or >3.5 W/kg for 10gSAR, then all tune states for that particular combination of air interface, exposure condition, and antenna selection shall be evaluated with single-point SAR measurements.
8. 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 H.

Test Engineer : Martin Li, Varus Wang, Light Wang, Ricky Gu

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.

Declaration of Conformity:

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

Comments and Explanations:

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

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

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

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

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

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

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

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

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows



the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASy uncertainty Budget is shown in the following tables.

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

Uncertainty Budget According to IEC/IEEE 62209-1528 (Frequency band: 4 MHz - 10 GHz range)							
Error Description	Uncert. Value (±%)	Prob. Dist.	Div.	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System errors							
Probe calibration	18.6	N	2	1	1	9.3	9.3
Probe calibration drift	1.7	R	1.732	1	1	1.0	1.0
Probe linearity and detection Limit	4.7	R	1.732	1	1	2.7	2.7
Broadband signal	2.8	R	1.732	1	1	1.6	1.6
Probe isotropy	7.6	R	1.732	1	1	4.4	4.4
Other probe and data acquisition errors	2.4	N	1	1	1	2.4	2.4
RF ambient and noise	1.8	N	1	1	1	1.8	1.8
Probe positioning errors	0.006	N	1	0.5	0.5	0.0	0.0
Data processing errors	4.0	N	1	1	1	4.0	4.0
Phantom and Device Errors							
Measurement of phantom conductivity (σ)	2.5	N	1	0.78	0.71	2.0	1.8
Temperature effects (medium)	5.4	R	1.732	0.78	0.71	2.4	2.2
Shell permittivity	14.0	R	1.732	0.5	0.5	4.0	4.0
Distance between the radiating element of the DUT and the phantom medium	2.0	N	1	2	2	4.0	4.0
Repeatability of positioning the DUT or source against the phantom	1.0	N	1	1	1	1.0	1.0
Device holder effects	3.6	N	1	1	1	3.6	3.6
Effect of operating mode on probe sensitivity	2.4	R	1.732	1	1	1.4	1.4
Time-average SAR	1.7	R	1.732	1	1	1.0	1.0
Variation in SAR due to drift in output of DUT	2.5	N	1	1	1	2.5	2.5
Validation antenna uncertainty (validation measurement only)	0.0	N	1	1	1	0.0	0.0
Uncertainty in accepted power (validation measurement only)	0.0	N	1	1	1	0.0	0.0
Correction to the SAR results							
Phantom deviation from target (ϵ' , σ)	1.9	N	1	1	0.84	1.9	1.6
SAR scaling	0.0	R	1.732	1	1	0.0	0.0
Combined Std. Uncertainty						14.5%	14.4%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.8%

SAR Uncertainty Budget for frequency range 4MHz to 10GHz

cDASY6 Module mmWave Uncertainty Budget Evaluation Distances to the Antennas > $\lambda/2\pi$ In Compliance with IEC TR 63170					
Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Uncertainty terms dependent on the measurement system					
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependence	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					2.68

PD Uncertainty Budget

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 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", 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
- [15] IEC/IEEE 62209-1528:2020, "Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)", Oct. 2020
- [16] IEC 62479:2010 Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
- [17] IEC TR 63170: 2018 Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz
- [18] SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz)

Appendixes

Please refer to separated files for the following appendixes

Appendix A. Plots of System Performance Check

Appendix B. Plots of High SAR and PD Measurement

Appendix C. DASY Calibration Certificate

Appendix D. Test Setup Photos

Appendix E. Conducted RF Output Power Table

Appendix F. Power measurement connection diagram and CA Conducted RF Output Power Table

Appendix G. Power reduction mechanism verification

Appendix H. Supplemental Tuner Head & Body SAR Results

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