



FCC SAR Test Report

Report No. : FA612609

114	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 2	ECI6	132572	1770	21.61	23.00	1.377	-	-	-0.01	2.050	2.823
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	132072	1720	21.68	23.00	1.355	-	-	0.04	1.760	2.385
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	132572	1770	21.61	23.00	1.377	-	-	0.06	1.940	2.672
	LTE Band 66	20M	QPSK	1	0	-	Front	7mm	Ant 2	ECI4	132322	1745	22.82	24.00	1.312	-	-	0.05	0.913	1.198
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	ECI4	132322	1745	22.82	24.00	1.312	-	-	-0.18	1.010	1.325
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 2	ECI4	132322	1745	22.82	24.00	1.312	-	-	-0.19	0.434	0.569
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	132322	1745	21.65	23.00	1.365	-	-	-0.11	1.830	2.497
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 2	ECI6	132322	1745	21.65	23.00	1.365	-	-	0.08	1.430	1.951
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	ECI6	132322	1745	21.65	23.00	1.365	-	-	0.15	1.780	2.429
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	132072	1720	21.55	23.00	1.396	-	-	0.19	1.840	2.569
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	132572	1770	21.60	23.00	1.380	-	-	-0.08	1.890	2.609
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	ECI6	132072	1720	21.55	23.00	1.396	-	-	0.06	1.720	2.402
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	ECI6	132572	1770	21.60	23.00	1.380	-	-	0.12	1.810	2.498
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 2	ECI6	132322	1745	21.62	23.00	1.374	-	-	-0.03	1.900	2.611
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	ECI6	132322	1745	21.62	23.00	1.374	-	-	0.06	1.840	2.528
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 9	ECI6	132322	1745	21.91	23.00	1.285	-	-	0.01	1.420	1.825
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 9	ECI6	132322	1745	21.91	23.00	1.285	-	-	-0.16	1.610	2.069
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 9	ECI6	132072	1720	21.78	23.00	1.324	-	-	-0.16	1.580	2.092
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 9	ECI6	132572	1770	21.76	23.00	1.330	-	-	-0.09	1.360	1.809
	LTE Band 66	20M	QPSK	1	0	-	Front	7mm	Ant 9	ECI4	132322	1745	22.95	24.00	1.274	-	-	0.16	0.569	0.725
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECI4	132322	1745	22.95	24.00	1.274	-	-	0.01	0.363	0.462
	LTE Band 66	20M	QPSK	1	0	-	Left Side	12mm	Ant 9	ECI4	132322	1745	22.95	24.00	1.274	-	-	0.12	0.424	0.540
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 9	ECI6	132322	1745	21.78	23.00	1.324	-	-	0.01	1.230	1.629
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 9	ECI6	132322	1745	21.78	23.00	1.324	-	-	0.15	1.450	1.920
	LTE Band 66	20M	QPSK	100	0	-	Left Side	0mm	Ant 9	ECI6	132322	1745	21.75	23.00	1.334	-	-	0.03	1.410	1.880
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI6	132322	1745	20.28	21.50	1.324	-	-	0.19	0.876	1.160
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI6	132322	1745	20.28	21.50	1.324	-	-	0.19	0.735	0.973
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	132322	1745	20.28	21.50	1.324	-	-	-0.18	1.540	2.039
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	132072	1720	20.07	21.50	1.390	-	-	-0.16	1.570	2.182
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	132572	1770	20.22	21.50	1.343	-	-	-0.19	1.490	2.001
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 1	ECI4	132322	1745	22.81	24.00	1.315	-	-	0.06	0.463	0.609
	LTE Band 66	20M	QPSK	1	0	-	Back	16mm	Ant 1	ECI4	132322	1745	22.81	24.00	1.315	-	-	0.04	0.273	0.359
	LTE Band 66	20M	QPSK	1	0	-	Top Side	16mm	Ant 1	ECI4	132322	1745	22.81	24.00	1.315	-	-	0	0.311	0.409
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI6	132322	1745	20.20	21.50	1.349	-	-	0.06	1.030	1.389
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI6	132322	1745	20.20	21.50	1.349	-	-	-0.14	0.697	0.940
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	ECI6	132322	1745	20.20	21.50	1.349	-	-	-0.15	1.520	2.050
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	ECI6	132072	1720	20.19	21.50	1.352	-	-	0.02	1.530	2.069
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	ECI6	132572	1770	20.18	21.50	1.355	-	-	-0.02	1.420	1.924
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	ECI6	132322	1745	20.26	21.50	1.330	-	-	-0.06	1.410	1.876
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	ECI6	349000	1745	20.83	22.50	1.469	-	-	0.15	1.940	2.850
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	0mm	Ant 2	ECI6	349000	1745	20.83	22.50	1.469	-	-	0.11	1.460	2.145
	FR1 n66	45M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	ECI6	349000	1745	20.83	22.50	1.469	-	-	-0.07	1.750	2.571
115	FR1 n66	45M	QPSK	120	60	DFT-15	Front	0mm	Ant 2	ECI6	349000	1745	20.76	22.50	1.493	-	-	0.15	1.980	2.956
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	0mm	Ant 2	ECI6	349000	1745	20.76	22.50	1.493	-	-	-0.18	1.510	2.254
	FR1 n66	45M	QPSK	120	60	DFT-15	Bottom Side	0mm	Ant 2	ECI6	349000	1745	20.76	22.50	1.493	-	-	0.09	1.900	2.836
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	7mm	Ant 2	ECI4	349000	1745	22.21	24.00	1.510	-	-	0.03	0.810	1.223
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	5mm	Ant 2	ECI4	349000	1745	22.21	24.00	1.510	-	-	-0.03	1.090	1.646
	FR1 n66	45M	QPSK	120	60	DFT-15	Bottom Side	11mm	Ant 2	ECI4	349000	1745	22.21	24.00	1.510	-	-	-0.19	0.472	0.713
	FR1 n66	45M	QPSK	240	0	DFT-15	Front	0mm	Ant 2	ECI6	349000	1745	20.74	22.50	1.500	-	-	0.08	1.840	2.759
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	0mm	Ant 9	ECI6	349000	1745	20.99	22.50	1.416	-	-	0.17	0.973	1.378
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	0mm	Ant 9	ECI6	349000	1745	20.99	22.50	1.416	-	-	-0.1	0.541	0.766
	FR1 n66	45M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 9	ECI6	349000	1745	20.99	22.50	1.416	-	-	-0.05	1.660	2.350
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	7mm	Ant 9	ECI4	349000	1745	22.52	24.00	1.406	-	-	0.13	0.583	0.820
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	10mm	Ant 9	ECI4	349000	1745	22.52	24.00	1.406	-	-	0.01	0.323	0.454
	FR1 n66	45M	QPSK	1	1	DFT-15	Left Side	12mm	Ant 9	ECI4	349000	1745	22.52	24.00	1.406	-	-	0.07	0.300	0.422
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	0mm	Ant 9	ECI6	349000	1745	20.98	22.50	1.419	-	-	-0.13	0.932	1.323



FCC SAR Test Report

Report No. : FA612609

	FR1 n66	45M	QPSK	120	60	DFT-15	Back	0mm	Ant 9	ECI6	349000	1745	20.98	22.50	1.419	-	-	0.06	0.516	0.732
	FR1 n66	45M	QPSK	120	60	DFT-15	Left Side	0mm	Ant 9	ECI6	349000	1745	20.98	22.50	1.419	-	-	0.03	1.590	2.256
	FR1 n66	45M	QPSK	240	0	DFT-15	Left Side	0mm	Ant 9	ECI6	349000	1745	20.90	22.50	1.445	-	-	0.19	1.530	2.212
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	ECI6	349000	1745	19.40	21.00	1.445	-	-	-0.12	0.842	1.217
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI6	349000	1745	19.40	21.00	1.445	-	-	-0.11	0.346	0.500
	FR1 n66	45M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	ECI6	349000	1745	19.40	21.00	1.445	-	-	0.19	1.430	2.067
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	0mm	Ant 1	ECI6	349000	1745	19.39	21.00	1.449	-	-	0.15	0.858	1.243
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	0mm	Ant 1	ECI6	349000	1745	19.39	21.00	1.449	-	-	0.06	0.340	0.493
	FR1 n66	45M	QPSK	120	60	DFT-15	Top Side	0mm	Ant 1	ECI6	349000	1745	19.39	21.00	1.449	-	-	-0.02	1.470	2.130
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	10mm	Ant 1	ECI4	349000	1745	22.34	24.00	1.466	-	-	0.15	0.398	0.583
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	16mm	Ant 1	ECI4	349000	1745	22.34	24.00	1.466	-	-	0	0.282	0.413
	FR1 n66	45M	QPSK	120	60	DFT-15	Top Side	16mm	Ant 1	ECI4	349000	1745	22.34	24.00	1.466	-	-	-0.01	0.250	0.366
	FR1 n66	45M	QPSK	240	0	DFT-15	Top Side	0mm	Ant 1	ECI6	349000	1745	19.37	21.00	1.455	-	-	-0.05	1.410	2.052
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	ECI6	340500	1702.5	22.42	23.50	1.282	-	-	0.02	1.980	2.539
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	0mm	Ant 2	ECI6	340500	1702.5	22.42	23.50	1.282	-	-	0.12	1.540	1.975
	FR1 n70	15M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	ECI6	340500	1702.5	22.42	23.50	1.282	-	-	-0.03	1.680	2.154
116	FR1 n70	15M	QPSK	36	22	DFT-15	Front	0mm	Ant 2	ECI6	340500	1702.5	22.34	23.50	1.306	-	-	0.07	2.060	2.691
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	0mm	Ant 2	ECI6	340500	1702.5	22.34	23.50	1.306	-	-	0.04	1.600	2.090
	FR1 n70	15M	QPSK	36	22	DFT-15	Bottom Side	0mm	Ant 2	ECI6	340500	1702.5	22.34	23.50	1.306	-	-	0.08	1.760	2.299
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	7mm	Ant 2	ECI4	340500	1702.5	22.64	24.00	1.368	-	-	0.09	0.732	1.001
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 2	ECI4	340500	1702.5	22.64	24.00	1.368	-	-	0.09	0.952	1.302
	FR1 n70	15M	QPSK	36	22	DFT-15	Bottom Side	11mm	Ant 2	ECI4	340500	1702.5	22.64	24.00	1.368	-	-	-0.06	0.425	0.581
	FR1 n70	15M	QPSK	75	0	DFT-15	Front	0mm	Ant 2	ECI6	340500	1702.5	21.58	23.00	1.387	-	-	0.02	1.820	2.524
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	0mm	Ant 2	ECI6	340500	1702.5	21.58	23.00	1.387	-	-	0.02	1.440	1.997
	FR1 n70	15M	QPSK	75	0	DFT-15	Bottom Side	0mm	Ant 2	ECI6	340500	1702.5	21.58	23.00	1.387	-	-	0.02	1.530	2.122
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	0mm	Ant 9	ECI6	340500	1702.5	21.66	22.50	1.213	-	-	-0.16	0.528	0.641
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 9	ECI6	340500	1702.5	21.66	22.50	1.213	-	-	-0.01	1.710	2.075
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	0mm	Ant 9	ECI6	340500	1702.5	21.58	22.50	1.236	-	-	0.03	0.580	0.717
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Side	0mm	Ant 9	ECI6	340500	1702.5	21.58	22.50	1.236	-	-	-0.07	1.780	2.200
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 9	ECI4	340500	1702.5	22.84	24.00	1.306	-	-	0.13	0.299	0.391
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Side	12mm	Ant 9	ECI4	340500	1702.5	22.84	24.00	1.306	-	-	-0.17	0.268	0.350
	FR1 n70	15M	QPSK	75	0	DFT-15	Left Side	0mm	Ant 9	ECI6	340500	1702.5	21.55	22.50	1.245	-	-	-0.12	1.680	2.091
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	ECI6	340500	1702.5	21.55	22.50	1.245	-	-	0.16	1.010	1.257
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI6	340500	1702.5	21.55	22.50	1.245	-	-	0.19	0.400	0.498
	FR1 n70	15M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	ECI6	340500	1702.5	21.55	22.50	1.245	-	-	0.04	1.960	2.439
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	ECI4	340500	1702.5	22.98	24.00	1.265	-	-	-0.01	0.368	0.465
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	16mm	Ant 1	ECI4	340500	1702.5	22.98	24.00	1.265	-	-	-0.07	0.260	0.329
	FR1 n70	15M	QPSK	1	1	DFT-15	Top Side	16mm	Ant 1	ECI4	340500	1702.5	22.98	24.00	1.265	-	-	-0.15	0.227	0.287
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	0mm	Ant 1	ECI6	340500	1702.5	21.51	22.50	1.256	-	-	-0.14	1.100	1.382
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	0mm	Ant 1	ECI6	340500	1702.5	21.51	22.50	1.256	-	-	-0.02	0.415	0.521
	FR1 n70	15M	QPSK	36	22	DFT-15	Top Side	0mm	Ant 1	ECI6	340500	1702.5	21.51	22.50	1.256	-	-	0.05	1.780	2.236
	FR1 n70	15M	QPSK	75	0	DFT-15	Top Side	0mm	Ant 1	ECI6	340500	1702.5	21.50	22.50	1.259	-	-	0.11	1.510	1.901
1900MHz																				
117	GSM1900	-	-	-	-	GPRS 4TX slot	Front	0mm	Ant 2	ECI6	661	1880	25.55	26.50	1.245	-	-	-0.02	2.050	2.551
	GSM1900	-	-	-	-	GPRS 4TX slot	Back	0mm	Ant 2	ECI6	661	1880	25.55	26.50	1.245	-	-	-0.14	1.800	2.240
	GSM1900	-	-	-	-	GPRS 4TX slot	Bottom Side	0mm	Ant 2	ECI6	661	1880	25.55	26.50	1.245	-	-	0.13	1.720	2.141
	GSM1900	-	-	-	-	GPRS 4TX slot	Front	0mm	Ant 2	ECI6	512	1850.2	25.52	26.50	1.253	-	-	0.06	2.030	2.544
	GSM1900	-	-	-	-	GPRS 4TX slot	Front	0mm	Ant 2	ECI6	810	1909.8	25.48	26.50	1.265	-	-	-0.18	1.980	2.504
	GSM1900	-	-	-	-	GPRS 4TX slot	Back	0mm	Ant 2	ECI6	512	1850.2	25.52	26.50	1.253	-	-	0.06	1.680	2.105
	GSM1900	-	-	-	-	GPRS 4TX slot	Back	0mm	Ant 2	ECI6	810	1909.8	25.48	26.50	1.265	-	-	-0.18	1.610	2.036
	GSM1900	-	-	-	-	GPRS 4TX slot	Bottom Side	0mm	Ant 2	ECI6	512	1850.2	25.52	26.50	1.253	-	-	0.06	1.640	2.055
	GSM1900	-	-	-	-	GPRS 4TX slot	Bottom Side	0mm	Ant 2	ECI6	810	1909.8	25.48	26.50	1.265	-	-	-0.18	1.550	1.960
118	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	ECI6	9400	1880	21.92	23.00	1.282	-	-	0.03	2.160	2.770



FCC SAR Test Report

Report No. : FA612609

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	ECI6	9400	1880	21.92	23.00	1.282	-	-	0.19	1.640	2.103
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	ECI6	9400	1880	21.92	23.00	1.282	-	-	0.15	1.730	2.218
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	ECI6	9262	1852.4	21.78	23.00	1.324	-	-	0.1	1.830	2.424
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	ECI6	9538	1907.6	21.81	23.00	1.315	-	-	0.03	1.910	2.512
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	ECI6	9262	1852.4	21.78	23.00	1.324	-	-	-0.06	1.620	2.145
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	ECI6	9538	1907.6	21.81	23.00	1.315	-	-	-0.13	1.580	2.078
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	ECI6	9262	1852.4	21.78	23.00	1.324	-	-	0.08	1.740	2.304
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	ECI6	9538	1907.6	21.81	23.00	1.315	-	-	-0.1	1.810	2.381
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	7mm	Ant 2	ECI4	9400	1880	22.73	24.00	1.340	-	-	-0.15	0.785	1.052
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	ECI4	9400	1880	22.73	24.00	1.340	-	-	0.17	0.818	1.096
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	11mm	Ant 2	ECI4	9400	1880	22.73	24.00	1.340	-	-	-0.16	0.372	0.498
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 2	ECI6	26340	1880	21.98	23.50	1.419	-	-	0.02	1.980	2.810
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	ECI6	26340	1880	21.98	23.50	1.419	-	-	0.06	1.620	2.299
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	26340	1880	21.98	23.50	1.419	-	-	0	1.740	2.469
119	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 2	ECI6	26140	1860	21.79	23.50	1.483	-	-	0.18	2.060	3.054
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 2	ECI6	26590	1905	21.86	23.50	1.459	-	-	0.01	2.020	2.947
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	ECI6	26140	1860	21.79	23.50	1.483	-	-	-0.02	1.730	2.565
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	ECI6	26590	1905	21.86	23.50	1.459	-	-	-0.03	1.760	2.568
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	26140	1860	21.79	23.50	1.483	-	-	-0.03	1.850	2.743
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	26590	1905	21.86	23.50	1.459	-	-	-0.18	1.910	2.786
	LTE Band 25	20M	QPSK	1	0	-	Front	7mm	Ant 2	ECI4	26340	1880	22.64	24.00	1.368	-	-	-0.08	0.752	1.029
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	ECI4	26340	1880	22.64	24.00	1.368	-	-	-0.14	0.845	1.156
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 2	ECI4	26340	1880	22.64	24.00	1.368	-	-	0.02	0.388	0.531
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	26340	1880	21.90	23.00	1.288	-	-	-0.05	2.140	2.757
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 2	ECI6	26340	1880	21.90	23.00	1.288	-	-	0.08	1.740	2.242
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	ECI6	26340	1880	21.90	23.00	1.288	-	-	-0.17	1.840	2.370
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	26140	1860	21.73	23.00	1.340	-	-	-0.04	2.230	2.987
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	26590	1905	21.81	23.00	1.315	-	-	-0.1	2.120	2.788
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 2	ECI6	26140	1860	21.73	23.00	1.340	-	-	0.17	1.850	2.478
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 2	ECI6	26590	1905	21.81	23.00	1.315	-	-	-0.1	1.760	2.315
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	ECI6	26140	1860	21.73	23.00	1.340	-	-	0.05	1.920	2.572
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	ECI6	26590	1905	21.81	23.00	1.315	-	-	-0.17	1.950	2.565
	LTE Band 25	20M	QPSK	100	0	-	Front	0mm	Ant 2	ECI6	26340	1880	21.90	23.00	1.288	-	-	0.04	2.190	2.821
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 2	ECI6	26340	1880	21.90	23.00	1.288	-	-	-0.02	1.690	2.177
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	ECI6	26340	1880	21.90	23.00	1.288	-	-	0.13	1.780	2.293
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 9	ECI6	26340	1880	21.19	22.50	1.352	-	-	0.05	0.927	1.253
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 9	ECI6	26340	1880	21.19	22.50	1.352	-	-	-0.17	1.420	1.920
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 9	ECI6	26340	1880	21.19	22.50	1.352	-	-	-0.09	1.480	2.001
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 9	ECI6	26140	1860	20.98	22.50	1.419	-	-	0.12	1.490	2.114
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 9	ECI6	26590	1905	20.97	22.50	1.422	-	-	0.02	1.340	1.906
	LTE Band 25	20M	QPSK	1	0	-	Front	7mm	Ant 9	ECI4	26340	1880	22.89	24.00	1.291	-	-	-0.02	0.672	0.868
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECI4	26340	1880	22.89	24.00	1.291	-	-	0.13	0.390	0.504
	LTE Band 25	20M	QPSK	1	0	-	Left Side	12mm	Ant 9	ECI4	26340	1880	22.89	24.00	1.291	-	-	0.03	0.530	0.684
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 9	ECI6	26340	1880	21.05	22.50	1.396	-	-	-0.14	0.821	1.146
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 9	ECI6	26340	1880	21.05	22.50	1.396	-	-	0.07	1.260	1.759
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 9	ECI6	26340	1880	21.05	22.50	1.396	-	-	0.18	1.450	2.025
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 9	ECI6	26140	1860	20.87	22.50	1.455	-	-	0.1	1.260	1.834
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 9	ECI6	26590	1905	20.94	22.50	1.432	-	-	-0.16	1.180	1.690
	LTE Band 25	20M	QPSK	100	0	-	Left Side	0mm	Ant 9	ECI6	26340	1880	21.09	22.50	1.384	-	-	-0.17	1.420	1.965
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI6	26340	1880	19.88	21.50	1.452	-	-	0.11	1.010	1.467
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI6	26340	1880	19.88	21.50	1.452	-	-	0.18	0.836	1.214
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	26340	1880	19.88	21.50	1.452	-	-	-0.17	1.380	2.004
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	26140	1860	19.86	21.50	1.459	-	-	0.13	1.390	2.028



FCC SAR Test Report

Report No. : FA612609

	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	26590	1905	19.85	21.50	1.462	-	-	0.19	1.430	2.091
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 1	ECI4	26340	1880	22.48	24.00	1.419	-	-	-0.19	0.341	0.484
	LTE Band 25	20M	QPSK	1	0	-	Back	16mm	Ant 1	ECI4	26340	1880	22.48	24.00	1.419	-	-	-0.13	0.256	0.363
	LTE Band 25	20M	QPSK	1	0	-	Top Side	16mm	Ant 1	ECI4	26340	1880	22.48	24.00	1.419	-	-	-0.16	0.291	0.413
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI6	26340	1880	19.84	21.50	1.466	-	-	0.09	0.954	1.398
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI6	26340	1880	19.84	21.50	1.466	-	-	0.18	0.802	1.175
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	ECI6	26340	1880	19.84	21.50	1.466	-	-	-0.02	1.310	1.920
	LTE Band 25	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	ECI6	26340	1880	19.74	21.50	1.500	-	-	-0.02	1.250	1.875
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	ECI6	376500	1882.5	21.43	23.00	1.435	-	-	-0.1	1.920	2.756
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 2	ECI6	376500	1882.5	21.43	23.00	1.435	-	-	0.1	1.540	2.211
	FR1 n25	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	ECI6	376500	1882.5	21.43	23.00	1.435	-	-	-0.13	1.760	2.526
120	FR1 n25	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 2	ECI6	376500	1882.5	21.39	23.00	1.449	-	-	0.14	1.980	2.869
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 2	ECI6	376500	1882.5	21.39	23.00	1.449	-	-	-0.07	1.600	2.318
	FR1 n25	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 2	ECI6	376500	1882.5	21.39	23.00	1.449	-	-	-0.12	1.850	2.680
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	7mm	Ant 2	ECI4	376500	1882.5	22.28	24.00	1.486	-	-	-0.11	0.740	1.100
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 2	ECI4	376500	1882.5	22.28	24.00	1.486	-	-	0.12	0.993	1.476
	FR1 n25	40M	QPSK	108	54	DFT-15	Bottom Side	11mm	Ant 2	ECI4	376500	1882.5	22.28	24.00	1.486	-	-	0.19	0.476	0.707
	FR1 n25	40M	QPSK	216	0	DFT-15	Front	0mm	Ant 2	ECI6	376500	1882.5	21.33	23.00	1.469	-	-	0.17	1.820	2.673
	FR1 n25	40M	QPSK	216	0	DFT-15	Front	0mm	Ant 2	ECI6	376500	1882.5	21.33	23.00	1.469	-	-	0.17	1.440	2.115
	FR1 n25	40M	QPSK	216	0	DFT-15	Front	0mm	Ant 2	ECI6	376500	1882.5	21.33	23.00	1.469	-	-	0.17	1.690	2.482
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 9	ECI6	376500	1882.5	20.51	22.00	1.409	-	-	-0.18	1.030	1.452
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 9	ECI6	376500	1882.5	20.51	22.00	1.409	-	-	-0.05	0.586	0.826
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 9	ECI6	376500	1882.5	20.51	22.00	1.409	-	-	0.19	1.580	2.227
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	7mm	Ant 9	ECI4	376500	1882.5	22.47	24.00	1.422	-	-	-0.04	0.668	0.950
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 9	ECI4	376500	1882.5	22.47	24.00	1.422	-	-	0.01	0.395	0.562
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Side	12mm	Ant 9	ECI4	376500	1882.5	22.47	24.00	1.422	-	-	0.11	0.375	0.533
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 9	ECI6	376500	1882.5	20.44	22.00	1.432	-	-	-0.11	1.010	1.447
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 9	ECI6	376500	1882.5	20.44	22.00	1.432	-	-	0.04	0.556	0.796
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Side	0mm	Ant 9	ECI6	376500	1882.5	20.44	22.00	1.432	-	-	0.15	1.520	2.177
	FR1 n25	40M	QPSK	216	1	DFT-15	Left Side	0mm	Ant 9	ECI6	376500	1882.5	20.43	22.00	1.435	-	-	0.15	1.460	2.096
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	ECI6	376500	1882.5	20.38	22.00	1.452	-	-	0.07	1.160	1.684
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI6	376500	1882.5	20.38	22.00	1.452	-	-	0.09	0.519	0.754
	FR1 n25	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	ECI6	376500	1882.5	20.38	22.00	1.452	-	-	-0.1	1.570	2.280
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	ECI4	376500	1882.5	22.34	24.00	1.466	-	-	-0.12	0.325	0.476
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	16mm	Ant 1	ECI4	376500	1882.5	22.34	24.00	1.466	-	-	0.19	0.253	0.371
	FR1 n25	40M	QPSK	1	1	DFT-15	Top Side	16mm	Ant 1	ECI4	376500	1882.5	22.34	24.00	1.466	-	-	-0.09	0.288	0.422
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	ECI6	376500	1882.5	20.37	22.00	1.455	-	-	-0.1	1.040	1.514
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	ECI6	376500	1882.5	20.37	22.00	1.455	-	-	0.05	0.454	0.661
	FR1 n25	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	ECI6	376500	1882.5	20.37	22.00	1.455	-	-	0.15	1.510	2.198
	FR1 n25	40M	QPSK	216	0	DFT-15	Top Side	0mm	Ant 1	ECI6	376500	1882.5	20.32	22.00	1.472	-	-	-0.18	1.440	2.120
2300MHz																				
121	LTE Band 30	10M	QPSK	1	0	-	Front	0mm	Ant 2	ECI6	27710	2310	20.33	22.00	1.469	-	-	0.11	1.770	2.600
	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 2	ECI6	27710	2310	20.33	22.00	1.469	-	-	-0.07	1.430	2.101
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	27710	2310	20.33	22.00	1.469	-	-	0.02	1.350	1.983
	LTE Band 30	10M	QPSK	1	0	-	Front	7mm	Ant 2	ECI4	27710	2310	22.22	24.00	1.507	-	-	-0.18	0.717	1.080
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 2	ECI4	27710	2310	22.22	24.00	1.507	-	-	-0.04	0.692	1.043
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	11mm	Ant 2	ECI4	27710	2310	22.22	24.00	1.507	-	-	0.12	0.275	0.414
	LTE Band 30	10M	QPSK	25	0	-	Front	0mm	Ant 2	ECI6	27710	2310	20.13	22.00	1.538	-	-	-0.13	1.680	2.584
	LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 2	ECI6	27710	2310	20.13	22.00	1.538	-	-	-0.15	1.190	1.830
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 2	ECI6	27710	2310	20.13	22.00	1.538	-	-	-0.1	1.110	1.707
	LTE Band 30	10M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	27710	2310	20.12	22.00	1.542	-	-	0.12	1.640	2.528
	LTE Band 30	10M	QPSK	50	0	-	Back	0mm	Ant 2	ECI6	27710	2310	20.12	22.00	1.542	-	-	0.15	1.240	1.912
	LTE Band 30	10M	QPSK	1	0	-	Front	0mm	Ant 1	ECI6	27710	2310	17.98	19.50	1.419	-	-	0.08	1.020	1.447
	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 1	ECI6	27710	2310	17.98	19.50	1.419	-	-	-0.1	0.802	1.138
	LTE Band 30	10M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	27710	2310	17.98	19.50	1.419	-	-	0.14	1.620	2.299
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 1	ECI4	27710	2310	22.49	24.00	1.416	-	-	-0.06	0.328	0.464



FCC SAR Test Report

Report No. : FA612609

	LTE Band 30	10M	QPSK	1	0	-	Back	16mm	Ant 1	ECI4	27710	2310	22.49	24.00	1.416	-	-	0.06	0.246	0.348
	LTE Band 30	10M	QPSK	1	0	-	Top Side	16mm	Ant 1	ECI4	27710	2310	22.49	24.00	1.416	-	-	0.08	0.270	0.382
	LTE Band 30	10M	QPSK	25	0	-	Front	0mm	Ant 1	ECI6	27710	2310	17.97	19.50	1.422	-	-	0.13	0.953	1.355
	LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 1	ECI6	27710	2310	17.97	19.50	1.422	-	-	0.06	0.730	1.038
	LTE Band 30	10M	QPSK	25	0	-	Top Side	0mm	Ant 1	ECI6	27710	2310	17.97	19.50	1.422	-	-	-0.08	1.430	2.034
	LTE Band 30	10M	QPSK	50	0	-	Top Side	0mm	Ant 1	ECI6	27710	2310	17.91	19.50	1.442	-	-	-0.06	1.410	2.033
122	FR1 n30	10M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	ECI6	462000	2310	20.87	22.50	1.455	-	-	-0.09	2.120	3.086
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	0mm	Ant 2	ECI6	462000	2310	20.87	22.50	1.455	-	-	-0.05	1.550	2.256
	FR1 n30	10M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	ECI6	462000	2310	20.87	22.50	1.455	-	-	0.19	1.630	2.372
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	7mm	Ant 2	ECI4	462000	2310	22.32	24.00	1.472	-	-	-0.08	0.607	0.894
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	ECI4	462000	2310	22.32	24.00	1.472	-	-	0.04	0.815	1.200
	FR1 n30	10M	QPSK	1	1	DFT-15	Bottom Side	11mm	Ant 2	ECI4	462000	2310	22.32	24.00	1.472	-	-	0.18	0.373	0.549
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	0mm	Ant 2	ECI6	462000	2310	20.86	22.50	1.459	-	-	-0.17	2.030	2.961
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	0mm	Ant 2	ECI6	462000	2310	20.86	22.50	1.459	-	-	0.04	1.500	2.188
	FR1 n30	10M	QPSK	25	14	DFT-15	Bottom Side	0mm	Ant 2	ECI6	462000	2310	20.86	22.50	1.459	-	-	-0.07	1.580	2.305
	FR1 n30	10M	QPSK	50	0	DFT-15	Front	0mm	Ant 2	ECI6	462000	2310	20.79	22.50	1.483	-	-	0.13	1.920	2.846
	FR1 n30	10M	QPSK	50	0	DFT-15	Back	0mm	Ant 2	ECI6	462000	2310	20.79	22.50	1.483	-	-	0.13	1.440	2.135
	FR1 n30	10M	QPSK	50	0	DFT-15	Bottom Side	0mm	Ant 2	ECI6	462000	2310	20.79	22.50	1.483	-	-	0.13	1.500	2.224
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	ECI6	462000	2310	17.41	19.00	1.442	-	-	0.05	0.945	1.363
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI6	462000	2310	17.41	19.00	1.442	-	-	0.18	0.886	1.278
	FR1 n30	10M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	ECI6	462000	2310	17.41	19.00	1.442	-	-	0.19	1.510	2.178
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	ECI4	462000	2310	20.76	22.50	1.493	-	-	0.14	0.175	0.261
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	16mm	Ant 1	ECI4	462000	2310	20.76	22.50	1.493	-	-	0.1	0.146	0.218
	FR1 n30	10M	QPSK	1	1	DFT-15	Top Side	16mm	Ant 1	ECI4	462000	2310	20.76	22.50	1.493	-	-	-0.08	0.159	0.237
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	0mm	Ant 1	ECI6	462000	2310	17.38	19.00	1.452	-	-	-0.07	0.793	1.152
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	0mm	Ant 1	ECI6	462000	2310	17.38	19.00	1.452	-	-	0	0.816	1.185
	FR1 n30	10M	QPSK	25	14	DFT-15	Top Side	0mm	Ant 1	ECI6	462000	2310	17.38	19.00	1.452	-	-	-0.06	1.450	2.106
	FR1 n30	10M	QPSK	50	0	DFT-15	Top Side	0mm	Ant 1	ECI6	462000	2310	17.36	19.00	1.459	-	-	-0.14	1.480	2.159
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 2	ECI6	21100	2535	20.27	21.50	1.327	-	-	-0.04	1.890	2.509
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	ECI6	21100	2535	20.27	21.50	1.327	-	-	0.17	1.310	1.739
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	21100	2535	20.27	21.50	1.327	-	-	0.09	1.690	2.243
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 2	ECI6	20850	2510	20.26	21.50	1.330	-	-	0.04	1.430	1.903
123	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 2	ECI6	21350	2560	20.25	21.50	1.334	-	-	0.11	1.910	2.547
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	20850	2510	20.26	21.50	1.330	-	-	0.04	1.360	1.809
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	21350	2560	20.25	21.50	1.334	-	-	0.11	1.580	2.107
	LTE Band 7	20M	QPSK	1	0	-	Front	7mm	Ant 2	ECI4	21100	2535	22.82	24.00	1.312	-	-	0.07	0.723	0.949
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	ECI4	21100	2535	22.82	24.00	1.312	-	-	0.03	0.685	0.899
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 2	ECI4	21100	2535	22.82	24.00	1.312	-	-	0.08	0.323	0.424
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	21100	2535	20.26	21.50	1.330	-	-	-0.02	1.780	2.368
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	ECI6	21100	2535	20.26	21.50	1.330	-	-	-0.16	1.240	1.650
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	ECI6	21100	2535	20.26	21.50	1.330	-	-	0.15	1.640	2.182
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	20850	2510	20.22	21.50	1.343	-	-	-0.12	1.280	1.719
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	21350	2560	20.24	21.50	1.337	-	-	0.03	1.790	2.393
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	ECI6	20850	2510	20.22	21.50	1.343	-	-	-0.12	1.160	1.558
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	ECI6	21350	2560	20.24	21.50	1.337	-	-	0.03	1.550	2.072
	LTE Band 7	20M	QPSK	100	0	-	Front	0mm	Ant 2	ECI6	21100	2535	20.25	21.50	1.334	-	-	-0.11	1.740	2.320
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	ECI6	21100	2535	20.25	21.50	1.334	-	-	-0.11	1.580	2.107
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 9	ECI6	21100	2535	20.55	21.50	1.245	-	-	-0.16	1.190	1.481
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 9	ECI6	21100	2535	20.55	21.50	1.245	-	-	0.04	1.270	1.581
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 9	ECI6	21100	2535	20.55	21.50	1.245	-	-	-0.04	1.710	2.128
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 9	ECI6	20850	2510	20.54	21.50	1.247	-	-	-0.06	1.610	2.008
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 9	ECI6	21350	2560	20.47	21.50	1.268	-	-	0.16	1.760	2.231
	LTE Band 7	20M	QPSK	1	0	-	Front	7mm	Ant 9	ECI4	21100	2535	22.98	24.00	1.265	-	-	0.17	0.845	1.069
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECI4	21100	2535	22.98	24.00	1.265	-	-	-0.1	0.561	0.710
	LTE Band 7	20M	QPSK	1	0	-	Left Side	12mm	Ant 9	ECI4	21100	2535	22.98	24.00	1.265	-	-	-0.01	0.546	0.691



FCC SAR Test Report

Report No. : FA612609

	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 9	ECI6	21100	2535	20.53	21.50	1.250	-	-	0.12	1.160	1.450
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 9	ECI6	21100	2535	20.53	21.50	1.250	-	-	0.04	1.200	1.500
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 9	ECI6	21100	2535	20.53	21.50	1.250	-	-	0.15	1.620	2.025
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 9	ECI6	20850	2510	20.49	21.50	1.262	-	-	-0.06	1.520	1.918
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 9	ECI6	21350	2560	20.49	21.50	1.262	-	-	-0.02	1.690	2.132
	LTE Band 7	20M	QPSK	100	0	-	Left Side	0mm	Ant 9	ECI6	21100	2535	20.44	21.50	1.276	-	-	-0.02	1.670	2.132
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI6	21100	2535	17.45	18.50	1.274	-	-	0.01	0.788	1.004
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI6	21100	2535	17.45	18.50	1.274	-	-	-0.13	0.732	0.932
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECI6	21100	2535	17.45	18.50	1.274	-	-	-0.03	0.251	0.320
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	21100	2535	17.45	18.50	1.274	-	-	0.17	1.640	2.089
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	20850	2510	17.29	18.50	1.321	-	-	0.07	1.590	2.101
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	21350	2560	17.43	18.50	1.279	-	-	-0.02	1.730	2.213
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	ECI4	21100	2535	22.68	24.00	1.355	-	-	0.18	0.676	0.916
	LTE Band 7	20M	QPSK	1	0	-	Back	16mm	Ant 1	ECI4	21100	2535	22.68	24.00	1.355	-	-	0.16	0.412	0.558
	LTE Band 7	20M	QPSK	1	0	-	Left Side	7mm	Ant 1	ECI4	21100	2535	22.68	24.00	1.355	-	-	0.06	0.496	0.672
	LTE Band 7	20M	QPSK	1	0	-	Top Side	16mm	Ant 1	ECI4	21100	2535	22.68	24.00	1.355	-	-	-0.09	0.627	0.850
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI6	21100	2535	17.40	18.50	1.288	-	-	0.1	0.787	1.014
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI6	21100	2535	17.40	18.50	1.288	-	-	-0.13	0.741	0.955
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	ECI6	21100	2535	17.40	18.50	1.288	-	-	0.1	0.239	0.308
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	ECI6	21100	2535	17.40	18.50	1.288	-	-	0	1.580	2.035
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	ECI6	20850	2510	17.28	18.50	1.324	-	-	0.05	1.560	2.066
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	ECI6	21350	2560	17.36	18.50	1.300	-	-	-0.08	1.630	2.119
	LTE Band 7	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	ECI6	21100	2535	17.31	18.50	1.315	-	-	-0.04	1.570	2.065
	LTE Band 41	20M	QPSK	1	49	-	Front	0mm	Ant 2	ECI6	41490	2680	22.95	24.00	1.274	62.9	1.006	-0.07	1.730	2.216
	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	0mm	Ant 2	ECI6	41490	2680	22.95	24.00	1.274	62.9	1.006	-0.12	1.980	2.537
	LTE Band 41C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	41490 41292	2680 2660.2	22.70	24.00	1.349	62.9	1.006	0.05	1.930	2.619
	LTE Band 41	20M	QPSK	1	49	-	Front	0mm	Ant 2	ECI6	39750	2506	22.92	24.00	1.282	62.9	1.006	-0.04	1.060	1.367
	LTE Band 41	20M	QPSK	1	49	-	Front	0mm	Ant 2	ECI6	40185	2549.5	22.50	24.00	1.413	62.9	1.006	0.07	1.100	1.563
	LTE Band 41	20M	QPSK	1	49	-	Front	0mm	Ant 2	ECI6	40620	2593	22.40	24.00	1.445	62.9	1.006	-0.13	1.220	1.774
	LTE Band 41	20M	QPSK	1	49	-	Front	0mm	Ant 2	ECI6	41055	2636.5	22.79	24.00	1.321	62.9	1.006	0.06	1.510	2.007
	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	0mm	Ant 2	ECI6	39750	2506	22.92	24.00	1.282	62.9	1.006	-0.02	1.330	1.716
	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	0mm	Ant 2	ECI6	40185	2549.5	22.50	24.00	1.413	62.9	1.006	-0.08	1.390	1.975
	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	0mm	Ant 2	ECI6	40620	2593	22.40	24.00	1.445	62.9	1.006	0.13	1.530	2.225
	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	0mm	Ant 2	ECI6	41055	2636.5	22.79	24.00	1.321	62.9	1.006	0.07	1.900	2.526
124	LTE Band 41 HPUE	20M	QPSK	1	49	-	Bottom Side	0mm	Ant 2	ECI6	41490	2680	25.71	27.00	1.346	42.9	1.009	-0.07	2.310	3.137
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	41490 41292	2680 2660.2	25.55	27.00	1.396	42.9	1.009	0.05	2.210	3.114
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	39750 39948	2506 2525.8	25.41	27.00	1.442	42.9	1.009	0.06	1.860	2.706
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	40185 40383	2549.5 2569.3	25.46	27.00	1.426	42.9	1.009	-0.06	1.790	2.575
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	40620 40818	2593 2612.8	25.28	27.00	1.486	42.9	1.009	-0.1	1.910	2.864
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	41055 41253	2636.5 2656.3	25.48	27.00	1.419	42.9	1.009	-0.15	2.030	2.907
	LTE Band 41	20M	QPSK	50	24	-	Front	0mm	Ant 2	ECI6	41490	2535	21.95	23.00	1.274	62.9	1.006	-0.19	1.650	2.114
	LTE Band 41	20M	QPSK	50	24	-	Bottom Side	0mm	Ant 2	ECI6	41490	2535	21.95	23.00	1.274	62.9	1.006	-0.1	1.911	2.448
	LTE Band 41	20M	QPSK	50	24	-	Front	0mm	Ant 2	ECI6	39750	2506	21.93	23.00	1.279	62.9	1.006	-0.06	1.010	1.300
	LTE Band 41	20M	QPSK	50	24	-	Front	0mm	Ant 2	ECI6	40185	2549.5	21.47	23.00	1.422	62.9	1.006	-0.1	1.040	1.488
	LTE Band 41	20M	QPSK	50	24	-	Front	0mm	Ant 2	ECI6	40620	2593	21.29	23.00	1.483	62.9	1.006	-0.15	1.190	1.775
	LTE Band 41	20M	QPSK	50	24	-	Front	0mm	Ant 2	ECI6	41055	2636.5	21.77	23.00	1.327	62.9	1.006	-0.1	1.440	1.923
	LTE Band 41	20M	QPSK	50	24	-	Bottom Side	0mm	Ant 2	ECI6	39750	2506	21.93	23.00	1.279	62.9	1.006	0.12	1.290	1.660
	LTE Band 41	20M	QPSK	50	24	-	Bottom Side	0mm	Ant 2	ECI6	40185	2549.5	21.47	23.00	1.422	62.9	1.006	-0.05	1.320	1.889
	LTE Band 41	20M	QPSK	50	24	-	Bottom Side	0mm	Ant 2	ECI6	40620	2593	21.29	23.00	1.483	62.9	1.006	0.09	1.440	2.148
	LTE Band 41	20M	QPSK	50	24	-	Bottom Side	0mm	Ant 2	ECI6	41055	2636.5	21.77	23.00	1.327	62.9	1.006	-0.18	1.790	2.390
	LTE Band 41	20M	QPSK	100	0	-	Front	0mm	Ant 2	ECI6	41490	2680	21.85	23.00	1.303	62.9	1.006	-0.05	1.550	2.032
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	ECI6	41490	2680	21.85	23.00	1.303	62.9	1.006	-0.13	1.850	2.425
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 9	ECI6	41490	2680	22.88	23.50	1.153	62.9	1.006	-0.18	1.560	1.810
	LTE Band 41	20M	QPSK	1	49	-	Left Side	0mm	Ant 9	ECI6	41490	2680	22.88	23.50	1.153	62.9	1.006	-0.16	1.200	1.392



FCC SAR Test Report

Report No. : FA612609

	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 9	ECI6	39750	2506	22.52	23.50	1.253	62.9	1.006	-0.12	1.340	1.689
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 9	ECI6	40185	2549.5	22.31	23.50	1.315	62.9	1.006	0.04	1.400	1.852
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 9	ECI6	40620	2593	22.11	23.50	1.377	62.9	1.006	0.19	1.350	1.870
	LTE Band 41C	20M	QPSK	1	0	-	Back	0mm	Ant 9	ECI6	41490 41292	2680 2660.2	22.76	23.50	1.186	62.9	1.006	0.08	1.550	1.849
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 9	ECI6	41055	2636.5	22.49	23.50	1.262	62.9	1.006	-0.12	1.380	1.752
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Back	0mm	Ant 9	ECI6	40620	2593	23.66	25.10	1.393	42.9	1.009	-0.13	1.300	1.827
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 9	ECI6	41490 41292	2680 2660.2	24.41	25.10	1.172	42.9	1.009	0.04	1.530	1.810
	LTE Band 41	20M	QPSK	1	49	-	Back	10mm	Ant 9	ECI4	41490	2680	23.42	24.00	1.143	62.9	1.006	0.14	0.264	0.304
	LTE Band 41	20M	QPSK	1	49	-	Left Side	12mm	Ant 9	ECI4	41490	2680	23.42	24.00	1.143	62.9	1.006	-0.18	0.230	0.264
	LTE Band 41	20M	QPSK	50	24	-	Back	0mm	Ant 9	ECI6	41490	2535	22.38	23.00	1.153	62.9	1.006	-0.11	1.460	1.694
	LTE Band 41	20M	QPSK	50	24	-	Left Side	0mm	Ant 9	ECI6	41490	2535	22.38	23.00	1.153	62.9	1.006	-0.12	1.110	1.288
	LTE Band 41	20M	QPSK	50	24	-	Back	0mm	Ant 9	ECI6	39750	2506	22.09	23.00	1.233	62.9	1.006	0.03	1.290	1.600
	LTE Band 41	20M	QPSK	50	24	-	Back	0mm	Ant 9	ECI6	40185	2549.5	21.88	23.00	1.294	62.9	1.006	0.15	1.350	1.758
	LTE Band 41	20M	QPSK	50	24	-	Back	0mm	Ant 9	ECI6	40620	2593	21.65	23.00	1.365	62.9	1.006	0.04	1.280	1.757
	LTE Band 41	20M	QPSK	50	24	-	Back	0mm	Ant 9	ECI6	41055	2636.5	22.02	23.00	1.253	62.9	1.006	-0.13	1.300	1.639
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 9	ECI6	41490	2680	22.37	23.00	1.156	62.9	1.006	0.13	1.360	1.582
	LTE Band 41	20M	QPSK	1	49	-	Front	0mm	Ant 1	ECI6	40185	2549.5	19.83	21.00	1.309	62.9	1.006	0.18	0.682	0.898
	LTE Band 41	20M	QPSK	1	49	-	Back	0mm	Ant 1	ECI6	40185	2549.5	19.83	21.00	1.309	62.9	1.006	0.05	0.586	0.772
	LTE Band 41	20M	QPSK	1	49	-	Top Side	0mm	Ant 1	ECI6	40185	2549.5	19.83	21.00	1.309	62.9	1.006	-0.07	1.400	1.844
	LTE Band 41	20M	QPSK	1	49	-	Top Side	0mm	Ant 1	ECI6	39750	2506	19.79	21.00	1.321	62.9	1.006	-0.11	1.410	1.874
	LTE Band 41	20M	QPSK	1	49	-	Top Side	0mm	Ant 1	ECI6	40620	2593	19.58	21.00	1.387	62.9	1.006	0.03	1.490	2.079
	LTE Band 41	20M	QPSK	1	49	-	Top Side	0mm	Ant 1	ECI6	41055	2636.5	19.46	21.00	1.426	62.9	1.006	0.02	1.460	2.094
	LTE Band 41C	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	40185 40383	2549.5 2569.3	19.54	21.00	1.400	62.9	1.006	-0.14	1.460	2.056
	LTE Band 41	20M	QPSK	1	49	-	Top Side	0mm	Ant 1	ECI6	41490	2680	19.54	21.00	1.400	62.9	1.006	-0.1	1.460	2.056
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Top Side	0mm	Ant 1	ECI6	41055	2636.5	20.98	22.60	1.452	42.9	1.009	0.12	1.390	2.037
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	ECI6	40185 40383	2549.5 2569.3	21.25	22.60	1.365	42.9	1.009	0.12	1.430	1.969
	LTE Band 41	20M	QPSK	1	49	-	Front	10mm	Ant 1	ECI4	40185	2549.5	23.17	24.00	1.211	62.9	1.006	-0.19	0.351	0.427
	LTE Band 41	20M	QPSK	1	49	-	Back	16mm	Ant 1	ECI4	40185	2549.5	23.17	24.00	1.211	62.9	1.006	0.18	0.210	0.256
	LTE Band 41	20M	QPSK	1	49	-	Top Side	16mm	Ant 1	ECI4	40185	2549.5	23.17	24.00	1.211	62.9	1.006	0	0.316	0.385
	LTE Band 41	20M	QPSK	50	24	-	Front	0mm	Ant 1	ECI6	40185	2549.5	19.81	21.00	1.315	62.9	1.006	-0.08	0.659	0.872
	LTE Band 41	20M	QPSK	50	24	-	Back	0mm	Ant 1	ECI6	40185	2549.5	19.81	21.00	1.315	62.9	1.006	0.06	0.552	0.730
	LTE Band 41	20M	QPSK	50	24	-	Top Side	0mm	Ant 1	ECI6	40185	2549.5	19.81	21.00	1.315	62.9	1.006	-0.08	1.320	1.747
	LTE Band 41	20M	QPSK	50	24	-	Top Side	0mm	Ant 1	ECI6	39750	2506	19.77	21.00	1.327	62.9	1.006	0.19	1.360	1.816
	LTE Band 41	20M	QPSK	50	24	-	Top Side	0mm	Ant 1	ECI6	40620	2593	19.55	21.00	1.396	62.9	1.006	-0.1	1.400	1.967
	LTE Band 41	20M	QPSK	50	24	-	Top Side	0mm	Ant 1	ECI6	41055	2636.5	19.45	21.00	1.429	62.9	1.006	-0.07	1.380	1.984
	LTE Band 41	20M	QPSK	50	24	-	Top Side	0mm	Ant 1	ECI6	41490	2680	19.47	21.00	1.422	62.9	1.006	0.14	1.410	2.018
	LTE Band 41	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	ECI6	40185	2680	19.79	21.00	1.321	62.9	1.006	0.13	1.260	1.675
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	ECI6	507000	2535	20.51	22.00	1.409	-	-	0.09	1.680	2.368
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	0mm	Ant 2	ECI6	507000	2535	20.51	22.00	1.409	-	-	0.06	1.160	1.635
	FR1 n7	50M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	ECI6	507000	2535	20.51	22.00	1.409	-	-	0.19	1.800	2.537
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	0mm	Ant 2	ECI6	507000	2535	20.48	22.00	1.419	-	-	0.07	1.730	2.455
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	0mm	Ant 2	ECI6	507000	2535	20.48	22.00	1.419	-	-	-0.09	1.210	1.717
125	FR1 n7	50M	QPSK	135	68	DFT-15	Bottom Side	0mm	Ant 2	ECI6	507000	2535	20.48	22.00	1.419	-	-	-0.12	1.850	2.625
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	7mm	Ant 2	ECI4	507000	2535	22.39	24.00	1.449	-	-	0.18	0.556	0.806
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	5mm	Ant 2	ECI4	507000	2535	22.39	24.00	1.449	-	-	0.18	0.605	0.877
	FR1 n7	50M	QPSK	135	68	DFT-15	Bottom Side	11mm	Ant 2	ECI4	507000	2535	22.39	24.00	1.449	-	-	-0.18	0.321	0.465
	FR1 n7	50M	QPSK	270	0	DFT-15	Front	0mm	Ant 2	ECI6	507000	2535	20.47	22.00	1.422	-	-	0.02	1.620	2.304
	FR1 n7	50M	QPSK	270	0	DFT-15	Bottom Side	0mm	Ant 2	ECI6	507000	2535	20.47	22.00	1.422	-	-	-0.18	1.730	2.461
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	ECI6	507000	2535	16.47	18.00	1.422	-	-	0.11	0.745	1.060
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI6	507000	2535	16.47	18.00	1.422	-	-	-0.05	0.591	0.841
	FR1 n7	50M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 1	ECI6	507000	2535	16.47	18.00	1.422	-	-	-0.05	0.270	0.384
	FR1 n7	50M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	ECI6	507000	2535	16.47	18.00	1.422	-	-	-0.13	1.420	2.020
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	0mm	Ant 1	ECI6	507000	2535	16.41	18.00	1.442	-	-	-0.18	0.822	1.185
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	0mm	Ant 1	ECI6	507000	2535	16.41	18.00	1.442	-	-	-0.03	0.672	0.969
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Side	0mm	Ant 1	ECI6	507000	2535	16.41	18.00	1.442	-	-	-0.19	0.298	0.430



FCC SAR Test Report

Report No. : FA612609

	FR1 n7	50M	QPSK	135	68	DFT-15	Top Side	0mm	Ant 1	ECI6	507000	2535	16.41	18.00	1.442	-	-	0.19	1.510	2.178
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	10mm	Ant 1	ECI4	507000	2535	22.23	24.00	1.503	-	-	-0.02	0.452	0.679
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	16mm	Ant 1	ECI4	507000	2535	22.23	24.00	1.503	-	-	-0.05	0.285	0.428
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Side	7mm	Ant 1	ECI4	507000	2535	22.23	24.00	1.503	-	-	0.17	0.331	0.498
	FR1 n7	50M	QPSK	135	68	DFT-15	Top Side	16mm	Ant 1	ECI4	507000	2535	22.23	24.00	1.503	-	-	0	0.431	0.648
	FR1 n7	50M	QPSK	270	0	DFT-15	Top Side	0mm	Ant 1	ECI6	507000	2535	16.40	18.00	1.445	-	-	0.01	1.390	2.009
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 2	ECI6	518598	2592.99	20.69	22.00	1.352	-	-	0.17	1.930	2.610
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	ECI6	518598	2592.99	20.69	22.00	1.352	-	-	-0.04	1.390	1.879
	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 2	ECI6	518598	2592.99	20.69	22.00	1.352	-	-	0.16	2.090	2.826
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 2	ECI6	518598	2592.99	20.63	22.00	1.371	-	-	-0.12	1.990	2.728
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	ECI6	518598	2592.99	20.63	22.00	1.371	-	-	0.18	1.470	2.015
126	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	Ant 2	ECI6	518598	2592.99	20.63	22.00	1.371	-	-	-0.13	2.220	3.043
	FR1 n41C	100M	QPSK	180	93	DFT-30	Bottom Side	0mm	Ant 2	ECI6	520056 534000	2600.28 2670	20.50	22.00	1.413	-	-	0.13	2.030	2.867
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	Ant 2	ECI6	518598	2592.99	23.74	25.00	1.337	50	1.000	-0.13	2.160	2.887
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	7mm	Ant 2	ECI4	518598	2592.99	22.47	24.00	1.422	-	-	0.07	0.463	0.659
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	ECI4	518598	2592.99	22.47	24.00	1.422	-	-	0.16	0.601	0.855
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	11mm	Ant 2	ECI4	518598	2592.99	22.47	24.00	1.422	-	-	0.17	0.415	0.590
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 2	ECI6	518598	2592.99	20.62	22.00	1.374	-	-	0.1	1.830	2.514
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 2	ECI6	518598	2592.99	20.62	22.00	1.374	-	-	0.19	1.310	1.800
	FR1 n41	100M	QPSK	270	0	DFT-30	Bottom Side	0mm	Ant 2	ECI6	518598	2592.99	20.62	22.00	1.374	-	-	-0.06	2.010	2.762
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 9	ECI6	518598	2592.99	21.17	22.50	1.358	-	-	0.16	1.070	1.453
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	ECI6	518598	2592.99	21.17	22.50	1.358	-	-	-0.07	0.640	0.869
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 9	ECI6	518598	2592.99	21.17	22.50	1.358	-	-	0.11	1.720	2.336
	FR1 n41C	100M	QPSK	180	93	DFT-30	Left Side	0mm	Ant 9	ECI6	520056 534000	2600.28 2670	21.11	22.50	1.377	-	-	0.11	1.580	2.176
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 9	ECI6	518598	2592.99	24.41	25.50	1.285	50	1.000	0.11	1.680	2.159
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	7mm	Ant 9	ECI4	518598	2592.99	22.67	24.00	1.358	-	-	0.16	0.519	0.705
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 9	ECI4	518598	2592.99	22.67	24.00	1.358	-	-	0.08	0.341	0.463
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	12mm	Ant 9	ECI4	518598	2592.99	22.67	24.00	1.358	-	-	0.16	0.291	0.395
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 9	ECI6	518598	2592.99	21.10	22.50	1.380	-	-	-0.09	1.020	1.408
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 9	ECI6	518598	2592.99	21.10	22.50	1.380	-	-	0.18	0.610	0.842
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 9	ECI6	518598	2592.99	21.10	22.50	1.380	-	-	-0.02	1.650	2.278
	FR1 n41	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 9	ECI6	518598	2592.99	21.05	22.50	1.396	-	-	-0.06	1.600	2.234
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 1	ECI6	518598	2592.99	17.20	18.50	1.349	-	-	0.13	0.809	1.091
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	ECI6	518598	2592.99	17.20	18.50	1.349	-	-	0.1	0.271	0.366
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 1	ECI6	518598	2592.99	17.20	18.50	1.349	-	-	0.16	1.650	2.226
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 1	ECI6	518598	2592.99	17.18	18.50	1.355	-	-	-0.05	0.843	1.142
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	ECI6	518598	2592.99	17.18	18.50	1.355	-	-	-0.13	0.290	0.393
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 1	ECI6	518598	2592.99	17.18	18.50	1.355	-	-	-0.19	1.750	2.372
	FR1 n41C	100M	QPSK	180	93	DFT-30	Top Side	0mm	Ant 1	ECI6	520056 534000	2600.28 2670	17.36	18.50	1.300	-	-	0.1	1.630	2.119
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 1	ECI6	518598	2592.99	20.31	21.50	1.315	50	1.000	-0.19	1.680	2.210
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 1	ECI4	518598	2592.99	22.48	24.00	1.419	-	-	0.09	0.387	0.549
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	16mm	Ant 1	ECI4	518598	2592.99	22.48	24.00	1.419	-	-	0.03	0.260	0.369
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	16mm	Ant 1	ECI4	518598	2592.99	22.48	24.00	1.419	-	-	0.08	0.389	0.552
	FR1 n41	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 1	ECI6	518598	2592.99	17.13	18.50	1.371	-	-	0.17	1.630	2.235
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 0	ECI6	518598	2592.99	22.71	24.00	1.346	-	-	-0.1	1.430	1.925
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 0	ECI6	518598	2592.99	22.71	24.00	1.346	-	-	-0.18	1.980	2.665
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 0	ECI6	518598	2592.99	22.52	24.00	1.406	-	-	-0.09	1.360	1.912
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 0	ECI6	518598	2592.99	22.52	24.00	1.406	-	-	-0.15	2.010	2.826
	FR1 n41C	100M	QPSK	180	93	DFT-30	Back	0mm	Ant 0	ECI6	520056 534000	2600.28 2670	22.74	24.00	1.337	-	-	-0.15	1.920	2.566
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 0	ECI6	518598	2592.99	25.58	27.00	1.387	50	1.000	-0.15	1.950	2.704
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 0	ECI6	518598	2592.99	21.54	23.00	1.400	-	-	0.15	1.060	1.484
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 0	ECI6	518598	2592.99	21.54	23.00	1.400	-	-	0.15	1.620	2.267
3-4GHZ																				
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	0mm	Ant 7	ECI6	42590	3500	18.16	19.50	1.361	62.9	1.006	-0.11	0.826	1.131
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI6	42590	3500	18.16	19.50	1.361	62.9	1.006	-0.07	1.280	1.753



FCC SAR Test Report

Report No. : FA612609

	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	ECI6	42590	3500	18.16	19.50	1.361	62.9	1.006	0.09	0.932	1.276
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	7mm	Ant 7	ECI4	42590	3500	22.43	24.00	1.435	62.9	1.006	-0.09	0.400	0.578
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECI4	42590	3500	22.43	24.00	1.435	62.9	1.006	0.19	0.181	0.261
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	12mm	Ant 7	ECI4	42590	3500	22.43	24.00	1.435	62.9	1.006	-0.06	0.200	0.289
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	0mm	Ant 7	ECI6	42590	3500	18.15	19.50	1.365	62.9	1.006	-0.02	0.693	0.951
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	0mm	Ant 7	ECI6	42590	3500	18.15	19.50	1.365	62.9	1.006	0.09	1.070	1.469
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	0mm	Ant 7	ECI6	42590	3500	18.15	19.50	1.365	62.9	1.006	-0.07	0.745	1.023
	LTE Band 42	20M	QPSK	1	0		Front	0mm	Ant 7	ECI6	43340	3575	18.14	19.50	1.368	62.9	1.006	-0.18	0.993	1.366
127	LTE Band 42	20M	QPSK	1	0		Back	0mm	Ant 7	ECI6	43340	3575	18.14	19.50	1.368	62.9	1.006	-0.09	1.390	1.913
	LTE Band 42	20M	QPSK	1	0		Left Side	0mm	Ant 7	ECI6	43340	3575	18.14	19.50	1.368	62.9	1.006	0.09	1.120	1.541
	LTE Band 42	20M	QPSK	1	0		Front	7mm	Ant 7	ECI4	43340	3575	22.24	24.00	1.500	62.9	1.006	0.06	0.471	0.711
	LTE Band 42	20M	QPSK	1	0		Back	10mm	Ant 7	ECI4	43340	3575	22.24	24.00	1.500	62.9	1.006	0.06	0.219	0.330
	LTE Band 42	20M	QPSK	1	0		Left Side	12mm	Ant 7	ECI4	43340	3575	22.24	24.00	1.500	62.9	1.006	0.04	0.240	0.362
	LTE Band 42	20M	QPSK	50	0		Front	0mm	Ant 7	ECI6	43340	3575	18.07	19.50	1.390	62.9	1.006	0.13	0.929	1.299
	LTE Band 42	20M	QPSK	50	0		Back	0mm	Ant 7	ECI6	43340	3575	18.07	19.50	1.390	62.9	1.006	-0.06	1.350	1.888
	LTE Band 42	20M	QPSK	50	0		Left Side	0mm	Ant 7	ECI6	43340	3575	18.07	19.50	1.390	62.9	1.006	-0.08	0.890	1.244
	LTE Band 48	20M	QPSK	1	0	-	Front	0mm	Ant 7	ECI6	55830	3609	18.79	20.50	1.483	62.9	1.006	0.03	1.000	1.491
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI6	55830	3609	18.79	20.50	1.483	62.9	1.006	-0.04	1.380	2.058
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	ECI6	55830	3609	18.79	20.50	1.483	62.9	1.006	-0.17	0.966	1.441
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI6	55340	3560	18.75	20.50	1.496	62.9	1.006	-0.06	1.140	1.716
128	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI6	56150	3641	18.76	20.50	1.493	62.9	1.006	-0.04	1.420	2.132
	LTE Band 48C	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI6	56150 56348	3641 3660.8	18.73	20.50	1.503	62.9	1.006	0.06	1.390	2.102
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI6	56640	3690	18.73	20.50	1.503	62.9	1.006	-0.06	1.320	1.996
	LTE Band 48	20M	QPSK	1	0	-	Front	7mm	Ant 7	ECI4	55830	3609	22.26	24.00	1.493	62.9	1.006	0.04	0.318	0.478
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECI4	55830	3609	22.26	24.00	1.493	62.9	1.006	-0.17	0.430	0.646
	LTE Band 48	20M	QPSK	1	0	-	Left Side	12mm	Ant 7	ECI4	55830	3609	22.26	24.00	1.493	62.9	1.006	-0.12	0.460	0.691
	LTE Band 48	20M	QPSK	50	0	-	Front	0mm	Ant 7	ECI6	55830	3609	18.72	20.50	1.507	62.9	1.006	-0.06	0.938	1.422
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	ECI6	55830	3609	18.72	20.50	1.507	62.9	1.006	-0.08	1.310	1.985
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 7	ECI6	55830	3609	18.72	20.50	1.507	62.9	1.006	0.05	0.927	1.405
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	ECI6	55340	3560	18.71	20.50	1.510	62.9	1.006	0.11	1.090	1.656
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	ECI6	56150	3641	18.65	20.50	1.531	62.9	1.006	0.08	1.360	2.095
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	ECI6	56640	3690	18.62	20.50	1.542	62.9	1.006	-0.04	1.280	1.985
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 7	ECI6	55830	3609	18.68	20.50	1.521	62.9	1.006	0.18	1.250	1.912
	LTE Band 48	20M	QPSK	1	0	-	Front	0mm	Ant 5	ECI6	55830	3609	19.48	21.00	1.419	62.9	1.006	-0.19	1.150	1.642
	LTE Band 48	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	ECI6	55830	3609	19.48	21.00	1.419	62.9	1.006	-0.16	0.805	1.149
	LTE Band 48	20M	QPSK	1	0	-	Front	0mm	Ant 5	ECI6	55340	3560	19.36	21.00	1.459	62.9	1.006	0	0.967	1.419
	LTE Band 48	20M	QPSK	1	0	-	Front	0mm	Ant 5	ECI6	56150	3641	19.27	21.00	1.489	62.9	1.006	-0.12	1.170	1.753
	LTE Band 48	20M	QPSK	1	0	-	Front	0mm	Ant 5	ECI6	56640	3690	19.33	21.00	1.469	62.9	1.006	-0.07	1.240	1.832
	LTE Band 48C	20M	QPSK	1	0	-	Front	0mm	Ant 5	ECI6	56150 56348	3641 3660.8	19.42	21.00	1.439	62.9	1.006	0.18	0.933	1.350
	LTE Band 48	20M	QPSK	1	0	-	Front	7mm	Ant 5	ECI4	55830	3609	22.39	24.00	1.449	62.9	1.006	0.13	0.438	0.638
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI4	55830	3609	22.39	24.00	1.449	62.9	1.006	0.1	0.202	0.294
	LTE Band 48	20M	QPSK	50	0	-	Front	0mm	Ant 5	ECI6	55830	3609	19.40	21.00	1.445	62.9	1.006	0.05	1.080	1.570
	LTE Band 48	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	ECI6	55830	3609	19.40	21.00	1.445	62.9	1.006	0.18	0.772	1.123
	LTE Band 48	20M	QPSK	50	0	-	Front	0mm	Ant 5	ECI6	55340	3560	19.29	21.00	1.483	62.9	1.006	0.03	0.926	1.381
	LTE Band 48	20M	QPSK	50	0	-	Front	0mm	Ant 5	ECI6	56150	3641	19.20	21.00	1.514	62.9	1.006	-0.12	1.110	1.690
	LTE Band 48	20M	QPSK	50	0	-	Front	0mm	Ant 5	ECI6	56640	3690	19.31	21.00	1.476	62.9	1.006	-0.02	1.190	1.767
	LTE Band 48	20M	QPSK	100	0	-	Front	0mm	Ant 5	ECI6	55830	3609	19.37	21.00	1.455	62.9	1.006	0.15	1.030	1.508
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	0mm	Ant 7	ECI6	641666	3624.99	17.49	19.00	1.416	-	-	-0.16	1.160	1.642
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	ECI6	641666	3624.99	17.49	19.00	1.416	-	-	0.12	0.335	0.474
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 7	ECI6	641666	3624.99	17.49	19.00	1.416	-	-	-0.1	0.912	1.291
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	0mm	Ant 7	ECI6	638000	3570	17.35	19.00	1.462	-	-	0.1	1.020	1.491
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	0mm	Ant 7	ECI6	645332	3679.98	17.37	19.00	1.455	-	-	-0.01	1.120	1.630
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	7mm	Ant 7	ECI4	641666	3624.99	22.45	24.00	1.429	-	-	-0.14	0.932	1.332
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	ECI4	641666	3624.99	22.45	24.00	1.429	-	-	0.05	0.825	1.179
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	12mm	Ant 7	ECI4	641666	3624.99	22.45	24.00	1.429	-	-	-0.18	0.705	1.007



FCC SAR Test Report

Report No. : FA612609

	FR1 n48	40M	QPSK	50	28	DFT-30	Front	0mm	Ant 7	ECI6	641666	3624.99	17.43	19.00	1.435	-	-	0.12	1.080	1.550
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 7	ECI6	641666	3624.99	17.43	19.00	1.435	-	-	0.12	0.327	0.469
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	0mm	Ant 7	ECI6	641666	3624.99	17.43	19.00	1.435	-	-	-0.16	0.881	1.265
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	0mm	Ant 7	ECI6	638000	3570	17.34	19.00	1.466	-	-	-0.01	0.981	1.438
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	0mm	Ant 7	ECI6	645332	3679.98	17.32	19.00	1.472	-	-	0.06	1.070	1.575
	FR1 n48	40M	QPSK	100	0	DFT-30	Front	0mm	Ant 7	ECI6	641666	3624.99	17.42	19.00	1.439	-	-	0.05	1.010	1.453
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	0mm	Ant 5	ECI6	641666	3624.99	17.05	18.50	1.396	-	-	-0.08	0.971	1.356
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	ECI6	641666	3624.99	17.05	18.50	1.396	-	-	-0.18	0.128	0.179
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	ECI6	641666	3624.99	17.05	18.50	1.396	-	-	-0.07	0.817	1.141
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	0mm	Ant 5	ECI6	641666	3624.99	16.97	18.50	1.422	-	-	-0.15	1.010	1.437
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 5	ECI6	641666	3624.99	16.97	18.50	1.422	-	-	0.09	0.136	0.193
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	0mm	Ant 5	ECI6	641666	3624.99	16.97	18.50	1.422	-	-	0.02	0.844	1.200
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	7mm	Ant 5	ECI4	641666	3624.99	22.15	24.00	1.531	-	-	-0.19	0.813	1.245
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	8mm	Ant 5	ECI4	641666	3624.99	22.15	24.00	1.531	-	-	0.07	0.350	0.536
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	10mm	Ant 5	ECI4	641666	3624.99	22.15	24.00	1.531	-	-	-0.11	0.345	0.528
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	ECI4	641666	3624.99	22.93	24.00	1.279	-	-	0.1	0.971	1.242
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 10	ECI4	641666	3624.99	22.55	24.00	1.396	-	-	-0.11	0.864	1.206
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	0mm	Ant 4	ECI6	641666	3624.99	19.53	20.00	1.114	-	-	0.07	1.060	1.181
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	ECI6	641666	3624.99	19.53	20.00	1.114	-	-	-0.05	0.284	0.316
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECI6	641666	3624.99	19.53	20.00	1.114	-	-	-0.01	1.960	2.184
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECI6	638000	3570	19.51	20.00	1.119	-	-	-0.07	1.780	1.993
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECI6	645332	3679.98	19.43	20.00	1.140	-	-	0.01	1.880	2.144
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	0mm	Ant 4	ECI6	641666	3624.99	19.47	20.00	1.130	-	-	0.07	1.140	1.288
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 4	ECI6	641666	3624.99	19.47	20.00	1.130	-	-	0.11	0.304	0.343
129	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 4	ECI6	641666	3624.99	19.47	20.00	1.130	-	-	-0.16	2.090	2.361
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 4	ECI6	638000	3570	19.47	20.00	1.130	-	-	0.06	1.880	2.124
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 4	ECI6	645332	3679.98	19.38	20.00	1.153	-	-	-0.12	1.950	2.249
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	7mm	Ant 4	ECI4	641666	3624.99	23.26	24.00	1.186	-	-	0.03	0.943	1.118
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	8mm	Ant 4	ECI4	641666	3624.99	23.26	24.00	1.186	-	-	0.06	1.050	1.245
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	8mm	Ant 4	ECI4	641666	3624.99	23.26	24.00	1.186	-	-	-0.09	1.400	1.660
	FR1 n48	40M	QPSK	100	0	DFT-30	Top Side	0mm	Ant 4	ECI6	641666	3624.99	19.43	20.00	1.140	-	-	0.08	1.920	2.189
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 7	ECI6	633332	3499.98	15.76	17.50	1.493	-	-	0.12	0.624	0.932
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	ECI6	633332	3499.98	15.76	17.50	1.493	-	-	0.05	0.216	0.322
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 7	ECI6	633332	3499.98	15.76	17.50	1.493	-	-	0.08	0.725	1.082
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 7	ECI6	633332	3499.98	15.74	17.50	1.500	-	-	-0.07	0.803	1.204
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 7	ECI6	633332	3499.98	15.74	17.50	1.500	-	-	-0.15	0.415	0.622
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 7	ECI6	633332	3499.98	15.74	17.50	1.500	-	-	0.16	0.805	1.207
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 7	ECI6	633332	3499.98	18.60	20.50	1.549	50	1.000	0.16	0.754	1.168
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 7	ECI6	656000	3840	15.76	17.50	1.493	-	-	0.1	1.100	1.642
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	ECI6	656000	3840	15.76	17.50	1.493	-	-	-0.16	0.637	0.951
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 7	ECI6	656000	3840	15.76	17.50	1.493	-	-	0.17	1.260	1.881
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 7	ECI6	656000	3840	15.75	17.50	1.496	-	-	0.06	1.130	1.691
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 7	ECI6	656000	3840	15.75	17.50	1.496	-	-	0.15	0.657	0.983
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 7	ECI6	656000	3840	15.75	17.50	1.496	-	-	-0.13	1.300	1.945
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Left Side	0mm	Ant 7	ECI6	650000 654648	3750 3819.72	15.81	17.50	1.476	-	-	0.17	1.160	1.712
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 7	ECI6	656000	3840	18.76	20.50	1.493	50	1.000	-0.13	1.240	1.851
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	7mm	Ant 7	ECI4	656000	3840	22.29	24.00	1.483	-	-	0.07	0.849	1.259
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 7	ECI4	656000	3840	22.29	24.00	1.483	-	-	-0.16	0.606	0.898
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Side	12mm	Ant 7	ECI4	656000	3840	22.29	24.00	1.483	-	-	0.13	0.579	0.858
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 7	ECI6	656000	3840	15.69	17.50	1.517	-	-	0.09	1.070	1.623
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 7	ECI6	656000	3840	15.69	17.50	1.517	-	-	0.11	1.180	1.790
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 5	ECI6	633332	3499.98	15.48	17.00	1.419	-	-	-0.13	0.563	0.799
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	ECI6	633332	3499.98	15.48	17.00	1.419	-	-	-0.06	0.057	0.081
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	ECI6	633332	3499.98	15.48	17.00	1.419	-	-	0.05	0.526	0.746
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 5	ECI6	633332	3499.98	15.42	17.00	1.439	-	-	0.11	0.584	0.840
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	ECI6	633332	3499.98	15.42	17.00	1.439	-	-	0.13	0.060	0.086



FCC SAR Test Report

Report No. : FA612609

	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 5	ECI6	633332	3499.98	15.42	17.00	1.439	-	-	-0.01	0.551	0.793
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 5	ECI6	633332	3499.98	18.38	20.00	1.452	50	1.000	0.11	0.543	0.788
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 5	ECI6	656000	3840	15.63	17.00	1.371	-	-	-0.07	1.160	1.590
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Front	0mm	Ant 5	ECI6	650000 654648	3750 3819.72	15.77	17.00	1.327	-	-	0.07	1.020	1.354
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	ECI6	656000	3840	15.63	17.00	1.371	-	-	0	0.226	0.310
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	ECI6	656000	3840	15.63	17.00	1.371	-	-	-0.14	0.805	1.104
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 5	ECI6	656000	3840	15.63	17.00	1.371	-	-	0.14	0.679	0.931
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 5	ECI6	656000	3840	18.42	20.00	1.439	50	1.000	-0.07	1.080	1.554
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	7mm	Ant 5	ECI4	656000	3840	22.54	24.00	1.400	-	-	0.19	1.050	1.470
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	8mm	Ant 5	ECI4	656000	3840	22.54	24.00	1.400	-	-	0.04	0.704	0.985
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 5	ECI4	656000	3840	22.54	24.00	1.400	-	-	-0.19	0.369	0.516
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	8mm	Ant 5	ECI4	656000	3840	22.54	24.00	1.400	-	-	-0.08	0.480	0.672
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 5	ECI6	656000	3840	15.58	17.00	1.387	-	-	0.14	1.110	1.539
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	ECI6	656000	3840	15.58	17.00	1.387	-	-	-0.02	0.216	0.300
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 5	ECI6	656000	3840	15.58	17.00	1.387	-	-	0.16	0.772	1.071
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 5	ECI6	656000	3840	15.58	17.00	1.387	-	-	-0.19	0.654	0.907
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 5	ECI6	656000	3840	15.57	17.00	1.390	-	-	-0.06	1.060	1.473
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 5	ECI6	656000	3840	15.57	17.00	1.390	-	-	-0.05	0.716	0.995
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	ECI4	633332	3499.98	23.73	24.00	1.064	-	-	-0.1	1.740	1.852
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 10	ECI4	633332	3499.98	23.73	24.00	1.064	-	-	0.01	0.871	0.927
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 10	ECI4	633332	3499.98	23.73	24.00	1.064	-	-	0	0.500	0.532
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	ECI4	633332	3499.98	26.55	27.00	1.109	50	1.000	-0.1	1.620	1.797
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 10	ECI4	633332	3499.98	23.66	24.00	1.081	-	-	0.07	1.690	1.828
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 10	ECI4	633332	3499.98	23.66	24.00	1.081	-	-	0.05	0.841	0.909
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 10	ECI4	633332	3499.98	23.66	24.00	1.081	-	-	0.1	0.477	0.516
130	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	ECI4	656000	3840	23.87	24.00	1.030	-	-	0.18	2.040	2.102
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Back	0mm	Ant 10	ECI4	650000 654648	3750 3819.72	23.76	24.00	1.057	-	-	0.02	1.880	1.987
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 10	ECI4	656000	3840	23.87	24.00	1.030	-	-	-0.06	0.629	0.648
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	ECI4	656000	3840	26.88	27.00	1.028	50	1.000	0.18	2.010	2.066
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 10	ECI4	656000	3840	23.77	24.00	1.054	-	-	-0.06	1.950	2.056
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 10	ECI4	656000	3840	23.77	24.00	1.054	-	-	-0.15	0.590	0.622
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 10	ECI4	656000	3840	23.70	24.00	1.072	-	-	-0.05	1.880	2.014
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 4	ECI6	656000	3840	18.47	20.00	1.422	-	-	0.15	0.701	0.997
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	ECI6	656000	3840	18.47	20.00	1.422	-	-	-0.06	0.280	0.398
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECI6	656000	3840	18.47	20.00	1.422	-	-	-0.12	1.360	1.934
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Top Side	0mm	Ant 4	ECI6	650000 654648	3750 3819.72	18.65	20.00	1.365	-	-	-0.12	1.180	1.610
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECI6	656000	3840	21.31	23.00	1.476	50	1.000	-0.12	1.250	1.845
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	7mm	Ant 4	ECI4	656000	3840	22.27	24.00	1.489	-	-	-0.07	0.807	1.202
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	8mm	Ant 4	ECI4	656000	3840	22.27	24.00	1.489	-	-	0.19	0.868	1.293
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 4	ECI4	656000	3840	22.27	24.00	1.489	-	-	0.03	0.141	0.210
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	8mm	Ant 4	ECI4	656000	3840	22.27	24.00	1.489	-	-	-0.1	1.160	1.728
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 4	ECI6	656000	3840	18.44	20.00	1.432	-	-	0.09	0.657	0.941
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 4	ECI6	656000	3840	18.44	20.00	1.432	-	-	-0.01	0.268	0.384
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 4	ECI6	656000	3840	18.44	20.00	1.432	-	-	0.16	1.280	1.833
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 4	ECI6	656000	3840	18.39	20.00	1.449	-	-	0.12	1.210	1.753

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
WLAN																
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 3+6	Standalone	11	2462	21.97	23.50	1.422	100.00	1.000	0.11	0.657	0.934
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 3+6	Standalone	11	2462	21.97	23.50	1.422	100.00	1.000	0.07	1.500	2.133
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 3+6	Standalone	1	2412	21.97	23.50	1.422	100.00	1.000	0.06	1.550	2.205
131	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 3+6	Standalone	6	2437	21.97	23.50	1.422	100.00	1.000	0.07	1.660	2.361
	WLAN2.4GHz	802.11b 1Mbps	Back	8mm	Ant 3+6	Standalone	11	2462	21.97	23.50	1.422	100.00	1.000	0.11	0.575	0.818



FCC SAR Test Report

Report No. : FA612609

	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 3+6	Standalone	11	2462	21.97	23.50	1.422	100.00	1.000	0.07	0.117	0.166
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 3+6	DBS	11	2462	21.37	23.00	1.455	100.00	1.000	0.03	0.358	0.521
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 3+6	DBS	11	2462	21.37	23.00	1.455	100.00	1.000	0.16	1.330	1.936
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 3+6	Simultaneou	11	2462	15.42	17.00	1.439	100.00	1.000	0.1	0.089	0.128
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 3+6	Simultaneou	11	2462	15.42	17.00	1.439	100.00	1.000	-0.02	0.332	0.478
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+6	Standalone	46	5230	20.85	22.50	1.463	100.00	1.000	-0.03	1.359	1.988
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+6	Standalone	46	5230	20.85	22.50	1.463	100.00	1.000	0.04	0.312	0.456
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4+6	Standalone	46	5230	20.85	22.50	1.463	100.00	1.000	0.09	1.267	1.854
132	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+6	Standalone	46	5230	20.85	22.50	1.463	100.00	1.000	-0.12	1.570	2.297
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+6	Standalone	38	5190	17.67	19.30	1.456	100.00	1.000	-0.12	0.841	1.224
	WLAN5GHz	802.11n-HT40 MCS0	Front	7mm	Ant 4+6	Standalone	46	5230	20.85	22.50	1.463	100.00	1.000	-0.03	0.212	0.310
	WLAN5GHz	802.11n-HT40 MCS0	Back	8mm	Ant 4+6	Standalone	46	5230	20.85	22.50	1.463	100.00	1.000	0.04	0.180	0.263
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 4+6	Standalone	46	5230	20.85	22.50	1.463	100.00	1.000	0.09	0.161	0.236
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	8mm	Ant 4+6	Standalone	46	5230	20.85	22.50	1.463	100.00	1.000	-0.12	0.285	0.417
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+6	DBS	46	5230	17.81	19.50	1.475	100.00	1.000	-0.08	0.953	1.406
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+6	DBS	46	5230	17.81	19.50	1.475	100.00	1.000	-0.14	0.216	0.319
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4+6	DBS	46	5230	17.81	19.50	1.475	100.00	1.000	-0.01	0.889	1.311
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+6	DBS	46	5230	17.81	19.50	1.475	100.00	1.000	0.16	1.180	1.740
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+6	Simultaneou	42	5210	11.91	13.50	1.442	100.00	1.000	0.05	0.236	0.340
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+6	Simultaneou	42	5210	11.91	13.50	1.442	100.00	1.000	0.14	0.055	0.079
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+6	Simultaneou	42	5210	11.91	13.50	1.442	100.00	1.000	-0.05	0.229	0.330
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+6	Simultaneou	42	5210	11.91	13.50	1.442	100.00	1.000	-0.05	0.302	0.435
	WLAN5GHz	802.11ac-VHT40 MCS0	Front	0mm	Ant 4+6	Standalone	54	5270	20.68	22.50	1.520	100.00	1.000	-0.02	1.150	1.748
	WLAN5GHz	802.11ac-VHT40 MCS0	Back	0mm	Ant 4+6	Standalone	54	5270	20.68	22.50	1.520	100.00	1.000	-0.12	0.266	0.404
	WLAN5GHz	802.11ac-VHT40 MCS0	Right Side	0mm	Ant 4+6	Standalone	54	5270	20.68	22.50	1.520	100.00	1.000	0.08	0.875	1.330
133	WLAN5GHz	802.11ac-VHT40 MCS0	Top Side	0mm	Ant 4+6	Standalone	54	5270	20.68	22.50	1.520	100.00	1.000	-0.07	1.390	2.113
	WLAN5GHz	802.11ac-VHT40 MCS0	Top Side	0mm	Ant 4+6	Standalone	62	5310	18.68	20.50	1.520	100.00	1.000	-0.04	0.960	1.459
	WLAN5GHz	802.11ac-VHT40 MCS0	Front	7mm	Ant 4+6	Standalone	54	5270	20.68	22.50	1.520	100.00	1.000	-0.02	0.190	0.289
	WLAN5GHz	802.11ac-VHT40 MCS0	Back	8mm	Ant 4+6	Standalone	54	5270	20.68	22.50	1.520	100.00	1.000	-0.12	0.115	0.175
	WLAN5GHz	802.11ac-VHT40 MCS0	Right Side	10mm	Ant 4+6	Standalone	54	5270	20.68	22.50	1.520	100.00	1.000	0.08	0.145	0.220
	WLAN5GHz	802.11ac-VHT40 MCS0	Top Side	8mm	Ant 4+6	Standalone	54	5270	20.68	22.50	1.520	100.00	1.000	-0.07	0.245	0.372
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+6	DBS	62	5310	17.77	19.50	1.491	100.00	1.000	-0.01	0.978	1.458
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+6	DBS	62	5310	17.77	19.50	1.491	100.00	1.000	0.08	0.232	0.346
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4+6	DBS	62	5310	17.77	19.50	1.491	100.00	1.000	0.16	0.754	1.124
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+6	DBS	62	5310	17.77	19.50	1.491	100.00	1.000	-0.16	1.180	1.759
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+6	Simultaneou	58	5290	11.66	13.50	1.529	100.00	1.000	-0.04	0.246	0.376
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+6	Simultaneou	58	5290	11.66	13.50	1.529	100.00	1.000	0.1	0.058	0.089
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+6	Simultaneou	58	5290	11.66	13.50	1.529	100.00	1.000	-0.08	0.186	0.284
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+6	Simultaneou	58	5290	11.66	13.50	1.529	100.00	1.000	0.03	0.293	0.448
	WLAN5GHz	802.11ax-HE40 MCS0	Front	0mm	Ant 4+6	Standalone	142	5710	20.27	22.00	1.489	100.00	1.000	-0.03	1.150	1.712
	WLAN5GHz	802.11ax-HE40 MCS0	Back	0mm	Ant 4+6	Standalone	142	5710	20.27	22.00	1.489	100.00	1.000	0.14	0.499	0.743
134	WLAN5GHz	802.11ax-HE40 MCS0	Right Side	0mm	Ant 4+6	Standalone	142	5710	20.27	22.00	1.489	100.00	1.000	-0.1	1.700	2.531
	WLAN5GHz	802.11ax-HE40 MCS0	Top Side	0mm	Ant 4+6	Standalone	142	5710	20.27	22.00	1.489	100.00	1.000	0.13	1.340	1.995
	WLAN5GHz	802.11ax-HE40 MCS0	Right Side	0mm	Ant 4+6	Standalone	102	5510	19.53	21.30	1.504	100.00	1.000	0.15	1.320	1.985
	WLAN5GHz	802.11ax-HE40 MCS0	Right Side	0mm	Ant 4+6	Standalone	110	5550	20.14	22.00	1.535	100.00	1.000	-0.12	1.340	2.056
	WLAN5GHz	802.11ax-HE40 MCS0	Right Side	0mm	Ant 4+6	Standalone	126	5630	19.92	21.50	1.439	100.00	1.000	-0.12	1.310	1.884
	WLAN5GHz	802.11ax-HE40 MCS0	Right Side	0mm	Ant 4+6	Standalone	134	5670	20.02	21.80	1.506	100.00	1.000	0.15	1.430	2.154
	WLAN5GHz	802.11ax-HE40 MCS0	Front	7mm	Ant 4+6	Standalone	142	5710	20.27	22.00	1.489	100.00	1.000	-0.03	0.151	0.225
	WLAN5GHz	802.11ax-HE40 MCS0	Back	8mm	Ant 4+6	Standalone	142	5710	20.27	22.00	1.489	100.00	1.000	0.14	0.221	0.329
	WLAN5GHz	802.11ax-HE40 MCS0	Right Side	10mm	Ant 4+6	Standalone	142	5710	20.27	22.00	1.489	100.00	1.000	-0.1	0.181	0.270
	WLAN5GHz	802.11ax-HE40 MCS0	Top Side	8mm	Ant 4+6	Standalone	142	5710	20.27	22.00	1.489	100.00	1.000	0.13	0.170	0.253
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+6	DBS	138	5690	19.13	20.80	1.468	100.00	1.000	-0.19	0.903	1.325
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+6	DBS	138	5690	19.13	20.80	1.468	100.00	1.000	0.13	0.399	0.586
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+6	DBS	138	5690	19.13	20.80	1.468	100.00	1.000	0.03	1.360	1.996
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+6	DBS	138	5690	19.13	20.80	1.468	100.00	1.000	-0.13	1.060	1.556
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+6	Simultaneou	138	5690	12.91	14.80	1.546	100.00	1.000	0.08	0.225	0.348



FCC SAR Test Report

Report No. : FA612609

	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+6	Simultaneou	138	5690	12.91	14.80	1.546	100.00	1.000	0.01	0.100	0.155
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+6	Simultaneou	138	5690	12.91	14.80	1.546	100.00	1.000	0.05	0.340	0.526
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+6	Simultaneou	138	5690	12.91	14.80	1.546	100.00	1.000	-0.17	0.263	0.407
	WLAN5GHz	802.11ax-HE40 MCS0	Front	0mm	Ant 4+6	Standalone	151	5755	21.08	22.80	1.486	100.00	1.000	-0.05	1.220	1.813
	WLAN5GHz	802.11ax-HE40 MCS0	Back	0mm	Ant 4+6	Standalone	151	5755	21.08	22.80	1.486	100.00	1.000	-0.11	0.494	0.734
135	WLAN5GHz	802.11ax-HE40 MCS0	Right Side	0mm	Ant 4+6	Standalone	151	5755	21.08	22.80	1.486	100.00	1.000	0.06	1.970	2.927
	WLAN5GHz	802.11ax-HE40 MCS0	Top Side	0mm	Ant 4+6	Standalone	151	5755	21.08	22.80	1.486	100.00	1.000	0.03	1.630	2.422
	WLAN5GHz	802.11ax-HE40 MCS0	Top Side	0mm	Ant 4+6	Standalone	159	5795	21.08	22.80	1.486	100.00	1.000	-0.14	1.480	2.199
	WLAN5GHz	802.11ax-HE40 MCS0	Front	7mm	Ant 4+6	Standalone	151	5755	21.08	22.80	1.486	100.00	1.000	-0.05	0.165	0.245
	WLAN5GHz	802.11ax-HE40 MCS0	Back	8mm	Ant 4+6	Standalone	151	5755	21.08	22.80	1.486	100.00	1.000	-0.11	0.175	0.260
	WLAN5GHz	802.11ax-HE40 MCS0	Right Side	10mm	Ant 4+6	Standalone	151	5755	21.08	22.80	1.486	100.00	1.000	0.06	0.179	0.266
	WLAN5GHz	802.11ax-HE40 MCS0	Top Side	8mm	Ant 4+6	Standalone	151	5755	21.08	22.80	1.486	100.00	1.000	0.03	0.201	0.299
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+6	DBS	155	5775	18.59	20.50	1.554	100.00	1.000	0.05	0.804	1.249
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+6	DBS	155	5775	18.59	20.50	1.554	100.00	1.000	0.06	0.318	0.494
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+6	DBS	155	5775	18.59	20.50	1.554	100.00	1.000	0	1.270	1.974
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+6	DBS	155	5775	18.59	20.50	1.554	100.00	1.000	-0.14	1.050	1.632
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+6	Simultaneou	155	5775	12.60	14.50	1.550	100.00	1.000	-0.13	0.200	0.310
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+6	Simultaneou	155	5775	12.60	14.50	1.550	100.00	1.000	-0.08	0.080	0.124
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+6	Simultaneou	155	5775	12.60	14.50	1.550	100.00	1.000	-0.09	0.318	0.493
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+6	Simultaneou	155	5775	12.60	14.50	1.550	100.00	1.000	-0.15	0.258	0.400

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+6	Standalone	167	6785	15.84	17.00	1.307	100.00	1.000	-0.06	0.185	0.242	3.13
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+6	Standalone	167	6785	15.84	17.00	1.307	100.00	1.000	-0.04	0.037	0.048	0.827
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	0mm	Ant 4+6	Standalone	167	6785	15.84	17.00	1.307	100.00	1.000	0.05	0.232	0.303	5.33
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	0mm	Ant 4+6	Standalone	167	6785	15.84	17.00	1.307	100.00	1.000	0.17	0.115	0.150	2.68
136	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	0mm	Ant 4+6	Standalone	7	5985	12.33	13.50	1.308	100.00	1.000	-0.1	0.372	0.487	9.05
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	0mm	Ant 4+6	Standalone	87	6385	14.83	16.00	1.310	100.00	1.000	0.15	0.232	0.304	5.27
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	0mm	Ant 4+6	Standalone	119	6545	14.45	16.00	1.428	100.00	1.000	-0.09	0.209	0.299	4.96
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	0mm	Ant 4+6	Standalone	199	6945	15.05	16.50	1.395	100.00	1.000	0.04	0.253	0.353	5.89
	WLAN6GHz	802.11ax-HE80 MCS0	Front	7mm	Ant 4+6	Standalone	167	6785	15.84	17.00	1.307	100.00	1.000	-0.06	0.055	0.072	1.24
	WLAN6GHz	802.11ax-HE80 MCS0	Back	8mm	Ant 4+6	Standalone	167	6785	15.84	17.00	1.307	100.00	1.000	-0.04	0.018	0.024	0.413
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	10mm	Ant 4+6	Standalone	167	6785	15.84	17.00	1.307	100.00	1.000	0.05	0.027	0.035	0.595
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	8mm	Ant 4+6	Standalone	167	6785	15.84	17.00	1.307	100.00	1.000	0.17	0.044	0.058	0.979



16.5 6GHz PD Test Result

WLAN PD

Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Power State	Average Power (dBm)	Grid Step (A)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11ax-HE80 MCS0	Right Side	2mm	Ant 4+6	7	5985	Extremity Standalone	12.33	0.0625	2.17	-0.52706351	2.51	3.28
WLAN6GHz	802.11ax-HE80 MCS0	Right Side	10mm	Ant 4+6	7	5985	Extremity Standalone	12.33	0.25	2.45		1.2	1.34
WLAN6GHz	802.11ax-HE80 MCS0	Right Side	2mm	Ant 4+6	199	6945	Extremity Standalone	15.05	0.0625	3.74	-0.24823584	1.09	2.73
WLAN6GHz	802.11ax-HE80 MCS0	Right Side	8.59mm	Ant 4+6	199	6945	Extremity Standalone	15.05	0.25	3.96		1.27	1.3

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Power State	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (A)	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	802.11ax-HE80 MCS0	Front	2mm	Ant 4+6	7	5985	Head Standalone	14.42	15.50	1.282	86.78	1.152	0.0625	1.5535	0.02	1.64	3.76	2.92	6.70
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+6	87	6385	Head Standalone	14.83	16.00	1.310	86.78	1.152	0.0625	1.5535	0.09	2.31	5.42	2.69	6.31
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+6	119	6545	Head Standalone	14.45	16.00	1.428	86.78	1.152	0.0625	1.5535	-0.01	1.92	4.91	2.29	5.85
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+6	167	6785	Head Standalone	15.35	16.50	1.303	86.78	1.152	0.0625	1.5535	0.05	1.87	4.36	2.48	5.78
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+6	199	6945	Head Standalone	15.05	16.50	1.395	86.78	1.152	0.0625	1.5535	-0.01	2.02	5.04	2.13	5.32
02	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	2mm	Ant 4+6	7	5985	Extremity Standalone	12.33	13.50	1.308	86.78	1.152	0.0625	1.5535	0.01	2.51	5.88	3.28	7.68
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	2mm	Ant 4+6	87	6385	Extremity Standalone	14.83	16.00	1.310	86.78	1.152	0.0625	1.5535	-0.13	2.11	4.95	2.79	6.54
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	2mm	Ant 4+6	119	6545	Extremity Standalone	14.45	16.00	1.428	86.78	1.152	0.0625	1.5535	0.07	1.94	4.96	2.61	6.67
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	2mm	Ant 4+6	167	6785	Extremity Standalone	15.84	17.00	1.307	86.78	1.152	0.0625	1.5535	0.03	2.16	5.05	2.45	5.73
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	2mm	Ant 4+6	199	6945	Extremity Standalone	15.05	16.50	1.395	86.78	1.152	0.0625	1.5535	0.04	1.09	2.72	2.73	6.82

16.6 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 3+6	Standalone	11	2462	21.44	23.00	1.432	100.00	1.000	-0.06	0.801	1	1.147
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 3+6	Standalone	11	2462	21.44	23.00	1.432	100.00	1.000	-0.13	0.787	1.018	1.127
1st	WLAN6GHz	-	-	-	-	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	7	5985	14.42	15.50	1.283	100.00	1.000	-0.1	0.845	1	1.084
2nd	WLAN6GHz	-	-	-	-	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	7	5985	14.42	15.50	1.283	100.00	1.000	-0.14	0.822	1.028	1.055
1st	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI7	23095	707.5	22.50	24.00	1.413	-	-	-0.16	0.905	1	1.278
2nd	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI7	23095	707.5	22.50	24.00	1.413	-	-	0.05	0.883	1.025	1.247
1st	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI7	26965	841.5	22.30	24.00	1.479	-	-	-0.19	0.851	1	1.259
2nd	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI7	26965	841.5	22.30	24.00	1.479	-	-	0.03	0.834	1.020	1.234
1st	GSM1900	-	-	-	-	GPRS 4TX slot	Bottom Side	5mm	Ant 2	ECI7	810	1909.8	22.53	23.50	1.250	-	-	-0.02	0.927	1	1.159
2nd	GSM1900	-	-	-	-	GPRS 4TX slot	Bottom Side	5mm	Ant 2	ECI7	810	1909.8	22.53	23.50	1.250	-	-	0.03	0.902	1.028	1.128
1st	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 2	ECI3	340500	1702.5	21.47	22.50	1.268	-	-	0.04	0.916	1	1.161
2nd	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 2	ECI3	340500	1702.5	21.47	22.50	1.268	-	-	0.07	0.898	1.020	1.138
1st	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	ECI3	462000	2310	19.31	21.00	1.476	-	-	0.12	0.811	1	1.197
2nd	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	ECI3	462000	2310	19.31	21.00	1.476	-	-	0.01	0.786	1.032	1.160
1st	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	ECI3	21350	2560	20.25	21.50	1.334	-	-	0.12	0.961	1	1.282
2nd	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	ECI3	21350	2560	20.25	21.50	1.334	-	-	0.04	0.941	1.021	1.255

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	FR1 n70	15M	QPSK	36	22	DFT-15	Front	0mm	Ant 2	ECI6	340500	1702.5	22.34	23.50	1.306	-	-	0.07	2.060	1	2.691
2nd	FR1 n70	15M	QPSK	36	22	DFT-15	Front	0mm	Ant 2	ECI6	340500	1702.5	22.34	23.50	1.306	-	-	-0.05	1.940	1.062	2.534
1st	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	26140	1860	21.73	23.00	1.340	-	-	-0.04	2.230	1	2.987
2nd	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 2	ECI6	26140	1860	21.73	23.00	1.340	-	-	0.03	2.170	1.028	2.907
1st	FR1 n30	10M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	ECI6	462000	2310	20.87	22.50	1.455	-	-	-0.09	2.120	1	3.086
2nd	FR1 n30	10M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	ECI6	462000	2310	20.87	22.50	1.455	-	-	-0.05	2.040	1.039	2.969
1st	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	0mm	Ant 2	ECI6	41490	2680	25.71	27.00	1.346	42.9	1.009	-0.07	2.310	1	3.137
2nd	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	0mm	Ant 2	ECI6	41490	2680	25.71	27.00	1.346	42.9	1.009	-0.02	2.170	1.065	2.947
1st	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 4	ECI6	641666	3624.99	19.47	20.00	1.130	-	-	-0.16	2.090	1	2.361
2nd	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 4	ECI6	641666	3624.99	19.47	20.00	1.130	-	-	-0.07	1.960	1.066	2.214
1st	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	ECI4	656000	3840	23.87	24.00	1.030	-	-	0.18	2.040	1	2.102
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 10	ECI4	656000	3840	23.87	24.00	1.030	-	-	0.11	1.950	1.046	2.009

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, 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/NR Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41/5G NR n41/n77. The highest available duty cycle for Power Class 2 operation is 43.3% for LTE and 50% for 5G NR 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.

Head			Hopspot		
LTE Band 41_Ant 2(HPUE)-Linearity Data for DSI 2			LTE Band 41_Ant 2(HPUE)-Linearity Data for DSI 7		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	21.50	23.10
Reported 1g SAR (W/kg)	0.224	0.291	Reported 1g SAR (W/kg)	1.259	1.210
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	89.41	88.41
Linearity SAR (W/kg)	0.306		Linearity SAR (W/kg)	1.245	
% deviation from expected linearity		-4.82%	% deviation from expected linearity		-2.80%
LTE Band 41_Ant 9(HPUE)-Linearity Data for DSI 2			LTE Band 41_Ant 9(HPUE)-Linearity Data for DSI 7		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	20.00	21.60	Maximum Tune up Power (dBm)	19.00	20.60
Reported 1g SAR (W/kg)	0.862	0.829	Reported 1g SAR (W/kg)	0.610	0.608
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	63.30	62.59	Frame Averaged (mW)	50.28	49.72
Linearity SAR (W/kg)	0.852		Linearity SAR (W/kg)	0.603	
% deviation from expected linearity		-2.73%	% deviation from expected linearity		0.81%
LTE Band 41_Ant 1(HPUE)-Linearity Data for DSI 2			LTE Band 41_Ant 1(HPUE)-Linearity Data for DSI 7		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	19.10	Maximum Tune up Power (dBm)	15.50	17.10
Reported 1g SAR (W/kg)	0.843	0.775	Reported 1g SAR (W/kg)	0.497	0.462
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	35.60	35.20	Frame Averaged (mW)	22.46	22.21
Linearity SAR (W/kg)	0.834		Linearity SAR (W/kg)	0.491	
% deviation from expected linearity		-7.02%	% deviation from expected linearity		-5.98%
FR1 n41_Ant 2(HPUE)-Linearity Data for DSI 2			FR1 n41_Ant 2(HPUE)-Linearity Data for DSI 7		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.400	0.387	Reported 1g SAR (W/kg)	1.094	1.010
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.399		Linearity SAR (W/kg)	1.091	
% deviation from expected linearity		-3.02%	% deviation from expected linearity		-7.46%
FR1 n41_Ant 9(HPUE)-Linearity Data for DSI 2			FR1 n41_Ant 9(HPUE)-Linearity Data for DSI 7		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	0.878	0.837	Reported 1g SAR (W/kg)	0.589	0.549
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	0.876		Linearity SAR (W/kg)	0.588	
% deviation from expected linearity		-4.44%	% deviation from expected linearity		-6.57%
FR1 n41_Ant 1(HPUE)-Linearity Data for DSI 2			FR1 n41_Ant 1(HPUE)-Linearity Data for DSI 7		

	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	15.00	18.00	Maximum Tune up Power (dBm)	13.50	16.50
Reported 1g SAR (W/kg)	0.849	0.812	Reported 1g SAR (W/kg)	0.608	0.576
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55	Frame Averaged (mW)	22.39	22.33
Linearity SAR (W/kg)	0.847		Linearity SAR (W/kg)	0.607	
% deviation from expected linearity		-4.13%	% deviation from expected linearity		-5.04%
FR1 n41_Ant 0(HPUE)-Linearity Data for DSI 2			FR1 n41_Ant 0(HPUE)-Linearity Data for DSI 7		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	23.50	26.50
Reported 1g SAR (W/kg)	0.293	0.273	Reported 1g SAR (W/kg)	1.223	1.211
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	223.87	223.34
Linearity SAR (W/kg)	0.292		Linearity SAR (W/kg)	1.220	
% deviation from expected linearity		-6.60%	% deviation from expected linearity		-0.75%
FR1 n77&78_Ant 7(HPUE)-Linearity Data for DSI 2			FR1 n77&78_Ant 7(HPUE)-Linearity Data for DSI 7		
	FR1 n77&78 (Power Class 3)	FR1 n77&78 (Power Class 2)		FR1 n77&78 (Power Class 3)	FR1 n77&78 (Power Class 2)
Maximum Tune up Power (dBm)	13.50	16.50	Maximum Tune up Power (dBm)	12.50	15.50
Reported 1g SAR (W/kg)	0.723	0.683	Reported 1g SAR (W/kg)	0.586	0.562
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	22.39	22.33	Frame Averaged (mW)	17.78	17.74
Linearity SAR (W/kg)	0.721		Linearity SAR (W/kg)	0.585	
% deviation from expected linearity		-5.31%	% deviation from expected linearity		-3.87%
FR1 n77&78_Ant 5(HPUE)-Linearity Data for DSI 2			FR1 n77&78_Ant 5(HPUE)-Linearity Data for DSI 7		
	FR1 n77&78 (Power Class 3)	FR1 n77&78 (Power Class 2)		FR1 n77&78 (Power Class 3)	FR1 n77&78 (Power Class 2)
Maximum Tune up Power (dBm)	12.50	15.50	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	0.802	0.781	Reported 1g SAR (W/kg)	0.584	0.550
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	17.78	17.74	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	0.800		Linearity SAR (W/kg)	0.583	
% deviation from expected linearity		-2.39%	% deviation from expected linearity		-5.60%
FR1 n77&78_Ant 10(HPUE)-Linearity Data for DSI 2			FR1 n77&78_Ant 10(HPUE)-Linearity Data for DSI 7		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	14.00	17.00
Reported 1g SAR (W/kg)	0.496	0.476	Reported 1g SAR (W/kg)	0.416	0.399
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	25.12	25.06
Linearity SAR (W/kg)	0.495		Linearity SAR (W/kg)	0.415	
% deviation from expected linearity		-3.80%	% deviation from expected linearity		-3.86%
FR1 n77&78_Ant 4(HPUE)-Linearity Data for DSI 2			FR1 n77&78_Ant 4(HPUE)-Linearity Data for DSI 7		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	14.50	17.50	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	0.783	0.716	Reported 1g SAR (W/kg)	0.572	0.553
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	28.18	28.12	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	0.781		Linearity SAR (W/kg)	0.571	
% deviation from expected linearity		-8.34%	% deviation from expected linearity		-3.09%



Extremity			Body-worn		
LTE Band 41_Ant 2(HPUE)-Linearity Data for DSI 6			LTE Band 41_Ant 2(HPUE)-Linearity Data for DSI 3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	23.50	25.10
Reported 1g SAR (W/kg)	2.537	3.137	Reported 1g SAR (W/kg)	1.230	1.100
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	141.71	140.12
Linearity SAR (W/kg)	3.463		Linearity SAR (W/kg)	1.216	
% deviation from expected linearity		-9.40%	% deviation from expected linearity		-9.55%
LTE Band 41_Ant 9(HPUE)-Linearity Data for DSI 6			LTE Band 41_Ant 9(HPUE)-Linearity Data for DSI 3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	25.10	Maximum Tune up Power (dBm)	19.50	21.10
Reported 1g SAR (W/kg)	1.870	1.827	Reported 1g SAR (W/kg)	0.831	0.741
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	140.12	Frame Averaged (mW)	56.42	55.78
Linearity SAR (W/kg)	1.849		Linearity SAR (W/kg)	0.822	
% deviation from expected linearity		-1.19%	% deviation from expected linearity		-9.82%
LTE Band 41_Ant 1(HPUE)-Linearity Data for DSI 6			LTE Band 41_Ant 1(HPUE)-Linearity Data for DSI 3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	21.00	22.60	Maximum Tune up Power (dBm)	19.00	20.60
Reported 1g SAR (W/kg)	2.094	2.037	Reported 1g SAR (W/kg)	0.795	0.738
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	79.69	78.79	Frame Averaged (mW)	50.28	49.72
Linearity SAR (W/kg)	2.070		Linearity SAR (W/kg)	0.786	
% deviation from expected linearity		-1.61%	% deviation from expected linearity		-6.11%
FR1 n41_Ant 2(HPUE)-Linearity Data for DSI 6			FR1 n41_Ant 2(HPUE)-Linearity Data for DSI 3		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00	Maximum Tune up Power (dBm)	21.50	24.50
Reported 1g SAR (W/kg)	3.043	2.887	Reported 1g SAR (W/kg)	1.275	1.258
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11	Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	3.036		Linearity SAR (W/kg)	1.272	
% deviation from expected linearity		-4.90%	% deviation from expected linearity		-1.10%
FR1 n41_Ant 9(HPUE)-Linearity Data for DSI 6			FR1 n41_Ant 9(HPUE)-Linearity Data for DSI 3		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	22.50	25.50	Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	2.336	2.159	Reported 1g SAR (W/kg)	0.865	0.818
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	177.83	177.41	Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	2.330		Linearity SAR (W/kg)	0.863	
% deviation from expected linearity		-7.36%	% deviation from expected linearity		-5.21%
FR1 n41_Ant 1(HPUE)-Linearity Data for DSI 6			FR1 n41_Ant 1(HPUE)-Linearity Data for DSI 3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50	Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	2.372	2.210	Reported 1g SAR (W/kg)	0.871	0.809
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63	Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	2.366		Linearity SAR (W/kg)	0.869	
% deviation from expected linearity		-6.61%	% deviation from expected linearity		-6.90%



FR1 n41_Ant 0(HPUE)-Linearity Data for DSI 6			FR1 n41_Ant 0(HPUE)-Linearity Data for DSI 3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	23.50	26.50
Reported 1g SAR (W/kg)	2.826	2.704	Reported 1g SAR (W/kg)	1.251	1.211
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	223.87	223.34
Linearity SAR (W/kg)	2.819		Linearity SAR (W/kg)	1.248	
% deviation from expected linearity		-4.09%	% deviation from expected linearity		-2.97%
FR1 n77&78_Ant 7(HPUE)-Linearity Data for DSI 6			FR1 n77&78_Ant 7(HPUE)-Linearity Data for DSI 3		
	FR1 n77&78 (Power Class 3)	FR1 n77&78 (Power Class 2)		FR1 n77&78 (Power Class 3)	FR1 n77&78 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	1.945	1.851	Reported 1g SAR (W/kg)	0.803	0.764
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	1.940		Linearity SAR (W/kg)	0.801	
% deviation from expected linearity		-4.61%	% deviation from expected linearity		-4.63%
FR1 n77&78_Ant 5(HPUE)-Linearity Data for DSI 6			FR1 n77&78_Ant 5(HPUE)-Linearity Data for DSI 3		
	FR1 n77&78 (Power Class 3)	FR1 n77&78 (Power Class 2)		FR1 n77&78 (Power Class 3)	FR1 n77&78 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	20.00	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	1.590	1.554	Reported 1g SAR (W/kg)	0.644	0.636
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	1.586		Linearity SAR (W/kg)	0.642	
% deviation from expected linearity		-2.03%	% deviation from expected linearity		-1.01%
FR1 n77&78_Ant 10(HPUE)-Linearity Data for DSI 6			FR1 n77&78_Ant 10(HPUE)-Linearity Data for DSI 3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	15.50	18.50
Reported 1g SAR (W/kg)	2.102	2.066	Reported 1g SAR (W/kg)	0.576	0.537
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	35.48	35.40
Linearity SAR (W/kg)	2.097		Linearity SAR (W/kg)	0.575	
% deviation from expected linearity		-1.48%	% deviation from expected linearity		-6.55%
FR1 n77&78_Ant 4(HPUE)-Linearity Data for DSI 6			FR1 n77&78_Ant 4(HPUE)-Linearity Data for DSI 3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	20.00	23.00	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	1.934	1.845	Reported 1g SAR (W/kg)	0.582	0.569
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	100.00	99.76	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	1.929		Linearity SAR (W/kg)	0.581	
% deviation from expected linearity		-4.38%	% deviation from expected linearity		-2.00%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + WLAN6GHz	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	WLAN5GHz + Bluetooth	Yes	Yes	Yes	Yes
6.	WLAN6GHz + Bluetooth	Yes	Yes		Yes
7.	WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
8.	WLAN2.4GHz + WLAN6GHz	Yes	Yes		Yes
9.	WWAN + WLAN5GHz + Bluetooth	Yes	Yes	Yes	Yes
10.	WWAN + WLAN6GHz + Bluetooth	Yes	Yes		Yes
11.	WWAN + WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
12.	WWAN + WLAN2.4GHz + WLAN6GHz	Yes	Yes		Yes
13.	WWAN + WLAN2.4GHz + NFC				Yes
14.	WWAN + WLAN5GHz + NFC				Yes
15.	WWAN + WLAN6GHz + NFC				Yes
16.	WWAN + Bluetooth + NFC				Yes
17.	WLAN5GHz + Bluetooth + NFC				Yes
18.	WLAN6GHz + Bluetooth + NFC				Yes
19.	WLAN2.4GHz + WLAN5GHz + NFC				Yes
20.	WLAN2.4GHz + WLAN6GHz + NFC				Yes
21.	WWAN + WLAN5GHz + Bluetooth + NFC				Yes
22.	WWAN + WLAN6GHz + Bluetooth + NFC				Yes
23.	WWAN + WLAN2.4GHz + WLAN5GHz + NFC				Yes
24.	WWAN + WLAN2.4GHz + WLAN6GHz + 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, MediaTek TA-SAR Gen2 algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. MediaTek TA-SAR Gen2 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 operation is demonstrated in the Part2 Report during algorithm validation. In this Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only). WLAN 6GHz has no hotspot function.
- 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 can't transmit simultaneously.
- The NFC only operate on limbs exposure condition.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- For distance SAR and non-distance SAR at extremity exposure conditions always chose higher SAR to do co-located analysis.

16. For co-located SAR with WWAN/Bluetooth, always chose higher SAR among WLAN5GHz and WLAN 6GHz, it is the worst co-located analysis and can represent each WLAN5GHz bands and each WLAN6GHz bands.
17. 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 together. This is the worst co-located analysis and can represent each band.
18. The maximum SAR summation is calculated based on the same configuration and test position.
19. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, 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 17.6.
 - vi) The SPLSR hotspot combination procedure (Hybrid SPLSR) allows for the aggregate SAR distribution of a collocated antenna pair—either obtained from a small enlarged zoom scan or through the algebraic summation of SAR values. This approach may also be considered for simultaneous transmission analysis. A small enlarged zoom scan was performed in section 17.8 for those with SPLSR exceeding 0.04 for 1g SAR, and that SAR was used for Simultaneous transmission analysis.
20. The simultaneous transmission analysis was conducted in the following two steps:
 - 1) Step1: If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneous transmission SAR measurement is not required. If $SPLSR > 0.04$ for 1g SAR and $SPLSR > 0.10$ for 10g SAR, proceed to Step 2;
 - 2) Step 2: If $SPLSR > 0.04$ for 1g SAR and $SPLSR > 0.10$ for 10g SAR, select the worst-case WWAN band of AG1 corresponding to the SPLSR condition. Perform a small enlarged zoom scan with WiFi/BT to ensure that the 1g scalar SAR summation is less than 1.6 W/kg and the 10g scalar SAR summation is less than 4.0 W/kg.

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

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

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

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

$$\begin{aligned} x \cdot A + y \cdot B + m &\leq 1 \\ x + y &= g \leq 1 \\ g + m &\leq 1 \end{aligned}$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR (i.e., PD exposure for 5G FR2 or SAR exposure for 5G FR1), and $B \leq 1.0$.

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

$$x \cdot A + y \cdot B + m \leq 1.0 \quad (1)$$

$$x \cdot A + y \cdot B \leq x \cdot \max(A, B) + (g-x) \cdot \max(A, B) \leq \max(A, B)$$

$$x \cdot A + (g-x) \cdot B + m \leq \max(A, B) + m \leq 1.0 \quad (2)$$

If $A + m \leq 1.0$ and $B + m \leq 1.0$ can be proven, then " $x \cdot A + y \cdot B + m \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

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

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

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

- i. A and m are decoupled based on the SPLSR criteria, and
- ii. $y \cdot B + m \leq 1.0$, and
- iii. $x \cdot A + y \cdot B \leq 1.0$

Note iii. is covered in Part 2 report; i. and ii. should be addressed in Part 1 report.

Above analysis is also apply to LTE/NR inter-band uplink, LTE(NR)1 + LTE(NR)2 + WLAN + BT simultaneous transmission, so inter-band uplink CA no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of LTE/NR + WLAN + BT < 1.

Above analysis is also apply to NR band UL MIMO, NR(SISO1) + NR(SISO2) + WLAN + BT simultaneous transmission, so UL MIMO no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of NR + WLAN + BT < 1.

The device also enabled Mediatek's TA-SAR algorithm to improve antenna performance by applying separate SAR budgets to each predefined antenna group. There are two predefined antenna groups of AG0, AG1, more detail as following table. Each antenna group is spatially separated to others. Simultaneous transmission analysis is performed per antenna group. Below analysis demonstrates the spatially separation of AG0, AG1, and the compliance between AG0 and BT/WLAN/NFC and between AG1 and BT/WLAN/NFC.

Thus, the concept was to split the SAR/TER on the transmitting RATs even they are transmitting on different antennas. Such approach is considered as a worst-case scenario in terms of transmitting power. Thus, to enhance the performance of the transmission power of RATs, consider the spatial properties of each antenna and the correlations between the antenna's transmissions.

SPLSR_Group (Antenna Group):

Antenna Group 0 (AG0)	ANT0 & ANT2
Antenna Group 1 (AG1)	ANT1 & ANT4 & ANT5 & ANT7 & ANT9& ANT10

Note that WLAN/BT operations are not enabled with TA-SAR feature.

The verification of spatial separation of the antenna groups is demonstrated through the following steps, together with WIF/BT simultaneous transmission analysis results.

- i) The highest reported SAR at Plimit (or Pmax when Plimit > Pmax) for each antenna should be obtained out of all supported technologies and frequency bands for each power index. Demonstrate that the sum of reported SAR of one antenna from each of the antenna groups and the sum of RF exposure from all supported radios outside of TAS feature should be less than the regulatory limit as given below for each power index.
- ii) If the sum of SAR from step i) is over 1.6 W/kg for 1g, demonstrate for a given power index that every antenna from one antenna group meets SPLSR criteria with every antenna in another antenna group for all frequency bands. SPLSR criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios, SPLSR Hotspot combination procedure (Hybrid SPLSR) also be considered for simultaneous transmission analysis.
- iii) If SPLSR evaluation and analysis is needed to determine compliance for a certain power index configuration, SPLSR is performed by taking the highest summation SAR for each of the supported technologies and bands per antenna, along with the minimum of peak SAR location distance. The minimum of peak location distance is documented in the Highest Report SAR and Hotspot Location below for each power index configuration.
- iv) In section 17.6 SPLSR analysis only evaluation Sim-Tx SAR configuration are rounded to two decimal higher or equal to 1.6W/kg.
- v) A small enlarged zoom scan SAR was used for Simultaneous transmission analysis, and the small enlarged zoom scan was performed in section 17.8 for those with SPLSR exceeding 0.04 for 1g SAR.
- vi) The analysis addresses the simultaneous transmission and the transition among non-simultaneous transmission radios.
- vii) The analysis addresses the simultaneous transmission and the transition among non-simultaneous transmission radios

For summed SAR results and SPLSR detailed analysis, please refer to section 17.2/17.3 / 17.4 / 17.5/ 17.6/ 17.7/17.8 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

17.2 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	Ant 0	Ant 2	All Antenna MAX SAR 1g W/kg
Right Cheek	0.293	0.475	0.475
Right Tilted	0.179	0.152	0.179
Left Cheek	0.469	0.323	0.469
Left Tilted	0.233	0.191	0.233

<AG1 maximum reported SAR>:

Test Position	Ant 1	Ant 4	Ant 5	Ant 7	Ant 9	Ant 10	All Antenna MAX SAR 1g W/kg
Right Cheek	0.881	0.512	0.293	0.820	0.878	0.496	0.881
Right Tilted	0.883	0.617	0.282	0.287	0.232	0.217	0.883
Left Cheek	0.569	0.673	0.844	0.148	0.300	0.245	0.844
Left Tilted	0.649	0.804	0.489	0.105	0.136	0.274	0.804

<WLAN2.4GHz/5GHz/6GHz+BT Worse-case SAR>:

	1	2	3	1+3	2+3	WLAN/BT worse case
Test Position	Bluetooth Ant 3	2.4GWLAN Ant 3+6	5/6GWLAN Ant 4+6	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
Right Cheek	0.070	0.164	0.232	0.302	0.396	0.396
Right Tilted	0.057	0.127	0.257	0.314	0.384	0.384
Left Cheek	0.171	0.349	0.346	0.517	0.695	0.695
Left Tilted	0.096	0.099	0.331	0.427	0.430	0.430

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

Test Position	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case
Right Cheek	0.475	0.881	0.396	1.75
Right Tilted	0.179	0.883	0.384	1.45
Left Cheek	0.469	0.844	0.695	2.01
Left Tilted	0.233	0.804	0.430	1.47

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



Right Cheek					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	0.293	0.881	0.396	1.57	
Ant 0-Ant 4	0.293	0.512	0.396	1.20	
Ant 0-Ant 5	0.293	0.293	0.396	0.98	
Ant 0-Ant 7	0.293	0.820	0.396	1.51	
Ant 0-Ant 9	0.293	0.878	0.396	1.57	
Ant 0-Ant 10	0.293	0.496	0.396	1.19	
Ant 2-Ant 1	0.475	0.881	0.396	1.75	Case 1
Ant 2-Ant 4	0.475	0.512	0.396	1.38	
Ant 2-Ant 5	0.475	0.293	0.396	1.16	
Ant 2-Ant 7	0.475	0.820	0.396	1.69	Case 2
Ant 2-Ant 9	0.475	0.878	0.396	1.75	Case 3
Ant 2-Ant 10	0.475	0.496	0.396	1.37	

Right Cheek				
Ant combination	AG0	AG1+WLAN5G+2.4G Multi-Band Combined SAR	AG0+AG1+WLAN5G+2.4G	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 2-Ant 1	0.475	0.988	1.46	small enlarged zoom scan Case 1
Right Cheek				
Ant combination	AG0	AG1+WLAN5G+BT Multi-Band Combined SAR	AG0+AG1+WLAN5G+BT	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 2-Ant 1	0.475	0.967	1.44	small enlarged zoom scan Case 2
Right Cheek				
Ant combination	AG0	AG1+WLAN5G+2.4G Multi-Band Combined SAR	AG0+AG1+WLAN5G+2.4G	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 2-Ant 7	0.475	0.923	1.40	small enlarged zoom scan Case 3
Right Cheek				
Ant combination	AG0	AG1+WLAN5G+BT Multi-Band Combined SAR	AG0+AG1+WLAN5G+BT	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 2-Ant 7	0.475	0.934	1.41	small enlarged zoom scan Case 4
Right Cheek				
Ant combination	AG0	AG1+WLAN5G+2.4G Multi-Band Combined SAR	AG0+AG1+WLAN5G+2.4G	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 2-Ant 9	0.475	0.911	1.39	small enlarged zoom scan Case 5
Right Cheek				
Ant combination	AG0	AG1+WLAN5G+BT Multi-Band Combined SAR	AG0+AG1+WLAN5G+BT	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 2-Ant 9	0.475	0.917	1.39	small enlarged zoom scan Case 6



Left Cheek					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	0.469	0.569	0.683	1.72	Case 4
Ant 0-Ant 4	0.469	0.673	0.683	1.83	Case 5
Ant 0-Ant 5	0.469	0.844	0.683	2.00	Case 6
Ant 0-Ant 7	0.469	0.148	0.683	1.30	
Ant 0-Ant 9	0.469	0.300	0.683	1.45	
Ant 0-Ant 10	0.469	0.245	0.683	1.40	
Ant 2-Ant 1	0.323	0.569	0.683	1.58	
Ant 2-Ant 4	0.323	0.673	0.683	1.68	Case 7
Ant 2-Ant 5	0.323	0.844	0.683	1.85	Case 8
Ant 2-Ant 7	0.323	0.148	0.683	1.15	
Ant 2-Ant 9	0.323	0.300	0.683	1.31	
Ant 2-Ant 10	0.323	0.245	0.683	1.25	

Left Cheek				
Ant combination	AG0	AG1+WLAN5G+2.4G Multi-Band Combined SAR	AG0+AG1+WLAN5G+2.4G	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 0-Ant 1	0.469	0.638	1.11	small enlarged zoom scan Case 7
Left Cheek				
Ant combination	AG0	AG1+WLAN5G+BT Multi-Band Combined SAR	AG0+AG1+WLAN5G+BT	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 0-Ant 1	0.469	0.644	1.11	small enlarged zoom scan Case 8
Left Cheek				
Ant combination	AG0	AG1+WLAN5G+2.4G Multi-Band Combined SAR	AG0+AG1+WLAN5G+2.4G	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 0-Ant 4	0.445	0.755	1.20	small enlarged zoom scan Case 9
Left Cheek				
Ant combination	AG0	AG1+WLAN5G+BT Multi-Band Combined SAR	AG0+AG1+WLAN5G+BT	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 0-Ant 4	0.469	0.763	1.23	small enlarged zoom scan Case 10
Left Cheek				
Ant combination	AG0	AG1+WLAN5G+2.4G Multi-Band Combined SAR	AG0+AG1+WLAN5G+2.4G	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 0-Ant 5	0.469	0.947	1.42	small enlarged zoom scan Case 11
Left Cheek				
Ant combination	AG0	AG1+WLAN5G+BT Multi-Band Combined SAR	AG0+AG1+WLAN5G+BT	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 0-Ant 5	0.469	0.924	1.39	small enlarged zoom scan Case 12
Left Cheek				
Ant combination	AG0	AG1+WLAN5G+2.4G Multi-Band Combined SAR	AG0+AG1+WLAN5G+2.4G	Note

	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 2-Ant 4	0.323	0.755	1.08	small enlarged zoom scan Case 13
Left Cheek				
Ant combination	AG0	AG1+WLAN5G+BT Multi-Band Combined SAR	AG0+AG1+WLAN5G+BT	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 2-Ant 4	0.323	0.763	1.09	small enlarged zoom scan Case 14
Left Cheek				
Ant combination	AG0	AG1+WLAN5G+2.4G Multi-Band Combined SAR	AG0+AG1+WLAN5G+2.4G	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 2-Ant 5	0.323	0.947	1.27	small enlarged zoom scan Case 15
Left Cheek				
Ant combination	AG0	AG1+WLAN5G+BT Multi-Band Combined SAR	AG0+AG1+WLAN5G+BT	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant 2-Ant 5	0.323	0.924	1.25	small enlarged zoom scan Case 16

Simultaneous Transmission analysis of WLAN 5/6GHz+BT only and WWAN cell-off :

Test Position	1	2	1+2
	2.4GWLAN Ant 3+6	5/6GWLAN Ant 4+6	Summed 1g SAR (W/kg)
Right Cheek	0.377	0.590	0.97
Right Tilted	0.280	0.649	0.93
Left Cheek	0.773	0.787	1.56
Left Tilted	0.225	0.825	1.05

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	Ant 0	Ant 2	All Antenna MAX SAR 1g W/kg
Front	1.251	0.838	1.251
Back	1.259	0.749	1.259
Left Side	1.278	0.177	1.278
Right Side	0.000	0.332	0.332
Top Side	0.000	0.000	0.000
Bottom Side	0.663	1.276	1.276

<AG1 maximum reported SAR>:

Test Position	Ant 1	Ant 4	Ant 5	Ant 7	Ant 9	Ant 10	All Antenna MAX SAR 1g W/kg
Front	0.333	0.275	0.531	0.309	0.337	0.046	0.531
Back	0.609	0.325	0.366	0.586	0.568	0.568	0.609
Left Side	0.156	0.000	0.000	0.490	0.610	0.000	0.610
Right Side	0.112	0.081	0.613	0.000	0.000	0.141	0.613
Top Side	0.608	0.572	0.300	0.082	0.063	0.126	0.608
Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<WLAN2.4GHz/5GHz/6GHz+BT Worse-case SAR>:

Test Position	1 Bluetooth Ant 3	2 2.4GWLAN Ant 3+6	3 5GWLAN Ant 4+6	1+3 Summed 1g SAR (W/kg)	2+3 Summed 1g SAR (W/kg)	WLAN /BT worse case
Front	0.050	0.051	0.252	0.302	0.303	0.303
Back	0.239	0.395	0.383	0.622	0.778	0.778
Left Side	0.000	0.000	0.000	0.000	0.000	0.000
Right Side	0.060	0.463	0.424	0.484	0.887	0.887
Top Side	0.053	0.120	0.424	0.477	0.544	0.544
Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000

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

Test Position	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case
Front	1.251	0.531	0.303	2.09
Back	1.259	0.609	0.778	2.65
Left Side	1.278	0.610	0.000	1.89
Right Side	0.332	0.613	0.887	1.83
Top Side	0.000	0.608	0.544	1.15
Bottom Side	1.276	0.000	0.000	1.28

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

Front					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	1.223	0.333	0.303	1.86	Case 14
Ant 0-Ant 4	1.223	0.275	0.303	1.80	Case 15
Ant 0-Ant 5	1.223	0.531	0.303	2.06	Case 16
Ant 0-Ant 7	1.223	0.309	0.303	1.84	Case 17
Ant 0-Ant 9	1.223	0.337	0.303	1.86	Case 18
Ant 0-Ant 10	1.223	0.046	0.303	1.57	
Ant 2-Ant 1	0.838	0.333	0.303	1.47	
Ant 2-Ant 4	0.838	0.275	0.303	1.42	
Ant 2-Ant 5	0.838	0.531	0.303	1.67	Case 19
Ant 2-Ant 7	0.838	0.309	0.303	1.45	
Ant 2-Ant 9	0.838	0.337	0.303	1.48	
Ant 2-Ant 10	0.838	0.046	0.303	1.19	

Back					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	1.259	0.609	0.778	2.65	Case 20
Ant 0-Ant 4	1.259	0.325	0.778	2.36	Case 21
Ant 0-Ant 5	1.259	0.366	0.778	2.40	Case 22
Ant 0-Ant 7	1.259	0.586	0.778	2.62	Case 23
Ant 0-Ant 9	1.259	0.568	0.778	2.61	Case 24
Ant 0-Ant 10	1.259	0.568	0.778	2.61	Case 25
Ant 2-Ant 1	0.609	0.609	0.778	2.00	Case 26
Ant 2-Ant 4	0.609	0.325	0.778	1.71	Case 27
Ant 2-Ant 5	0.609	0.366	0.778	1.75	Case 28
Ant 2-Ant 7	0.609	0.586	0.778	1.97	Case 29
Ant 2-Ant 9	0.609	0.568	0.778	1.96	Case 30
Ant 2-Ant 10	0.609	0.568	0.778	1.96	Case 31

Left Side					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	1.278	0.156	0.000	1.43	
Ant 0-Ant 4	1.278	0.000	0.000	1.28	
Ant 0-Ant 5	1.278	0.000	0.000	1.28	
Ant 0-Ant 7	1.278	0.490	0.000	1.77	Case 32
Ant 0-Ant 9	1.278	0.610	0.000	1.89	Case 33
Ant 0-Ant 10	1.278	0.000	0.000	1.28	
Ant 2-Ant 1	0.177	0.156	0.000	0.33	
Ant 2-Ant 4	0.177	0.000	0.000	0.18	
Ant 2-Ant 5	0.177	0.000	0.000	0.18	
Ant 2-Ant 7	0.177	0.490	0.000	0.67	
Ant 2-Ant 9	0.177	0.610	0.000	0.79	
Ant 2-Ant 10	0.177	0.000	0.000	0.18	

Right Side					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	0.000	0.112	0.887	1.00	
Ant 0-Ant 4	0.000	0.081	0.887	0.97	
Ant 0-Ant 5	0.000	0.613	0.887	1.50	
Ant 0-Ant 7	0.000	0.000	0.887	0.89	
Ant 0-Ant 9	0.000	0.000	0.887	0.89	
Ant 0-Ant 10	0.000	0.141	0.887	1.03	
Ant 2-Ant 1	0.332	0.112	0.887	1.33	
Ant 2-Ant 4	0.332	0.081	0.887	1.30	
Ant 2-Ant 5	0.332	0.613	0.887	1.83	Case 34
Ant 2-Ant 7	0.332	0.000	0.887	1.22	
Ant 2-Ant 9	0.332	0.000	0.887	1.22	
Ant 2-Ant 10	0.332	0.141	0.887	1.36	

Simultaneous Transmission analysis of WLAN 5/6GHz+BT only and WWAN cell-off :

Test Position	1	2	1+2
	2.4GWLAN Ant 3+6	5GWLAN Ant 4+6	Summed 1g SAR (W/kg)
Front	0.051	0.252	0.30
Back	0.395	0.383	0.78
Left Side	0.000	0.000	0.00
Right Side	0.463	0.424	0.89
Top Side	0.120	0.424	0.54
Bottom Side	0.000	0.000	0.00

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	Ant 0	Ant 2	All Antenna MAX SAR 1g W/kg
Front	1.251	1.282	1.282
Back	1.259	1.247	1.259

<AG1 maximum reported SAR>:

Test Position	Ant 1	Ant 4	Ant 5	Ant 7	Ant 9	Ant 10	All Antenna MAX SAR 1g W/kg
Front	0.640	0.582	0.768	0.639	0.554	0.066	0.768
Back	0.871	0.742	0.425	0.803	0.884	0.765	0.884

<WLAN2.4GHz/5GHz/6GHz+BT Worse-case SAR>:

Test Position	1 Bluetooth Ant 3	2 2.4GWLAN Ant 3+6	3 5/6GWLAN Ant 4+6	1+3 Summed 1g SAR (W/kg)	2+3 Summed 1g SAR (W/kg)	WLAN /BT worse case
Front	0.050	0.043	0.401	0.451	0.444	0.451
Back	0.239	0.315	0.354	0.593	0.669	0.669

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

Test Position	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case
Front	1.282	0.768	0.451	2.50
Back	1.259	0.884	0.669	2.81

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

Front					
Ant.combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	1.251	0.640	0.450	2.34	Case 35
Ant 0-Ant 4	1.251	0.582	0.450	2.28	Case 36
Ant 0-Ant 5	1.251	0.768	0.450	2.47	Case 37
Ant 0-Ant 7	1.251	0.639	0.450	2.34	Case 38
Ant 0-Ant 9	1.251	0.554	0.450	2.26	Case 39
Ant 0-Ant 10	1.251	0.066	0.450	1.77	Case 40
Ant 2-Ant 1	1.282	0.640	0.450	2.37	Case 41
Ant 2-Ant 4	1.282	0.582	0.450	2.31	Case 42
Ant 2-Ant 5	1.282	0.768	0.450	2.50	Case 43
Ant 2-Ant 7	1.282	0.639	0.450	2.37	Case 44
Ant 2-Ant 9	1.282	0.554	0.450	2.29	Case 45
Ant 2-Ant 10	1.282	0.066	0.450	1.80	Case 46

Back					
Ant,combination	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	1.259	0.871	0.669	2.80	Case 47
Ant 0-Ant 4	1.259	0.742	0.669	2.67	Case 48
Ant 0-Ant 5	1.259	0.425	0.669	2.35	Case 49
Ant 0-Ant 7	1.259	0.803	0.669	2.73	Case 50
Ant 0-Ant 9	1.259	0.884	0.669	2.81	Case 51
Ant 0-Ant 10	1.259	0.765	0.669	2.69	Case 52
Ant 2-Ant 1	1.247	0.871	0.669	2.79	Case 53
Ant 2-Ant 4	1.247	0.742	0.669	2.66	Case 54
Ant 2-Ant 5	1.247	0.425	0.669	2.34	Case 55
Ant 2-Ant 7	1.247	0.803	0.669	2.72	Case 56
Ant 2-Ant 9	1.247	0.884	0.669	2.80	Case 57
Ant 2-Ant 10	1.247	0.765	0.669	2.68	Case 58

Simultaneous Transmission analysis of WLAN 5/6GHz+BT only and WWAN cell-off :

Test Position	1	2	1+2
	2.4GWLAN Ant 3+6	5GWLAN Ant 4+6	Summed 1g SAR (W/kg)
Front	0.105	0.626	0.73
Back	0.794	0.773	1.57

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	Ant 0	Ant 2	All Antenna MAX SAR 1g W/kg
Front	0.261	0.604	0.604
Back	0.247	0.440	0.440

<AG1 maximum reported SAR>:

Test Position	Ant 1	Ant 4	Ant 5	Ant 7	Ant 9	Ant 10	All Antenna MAX SAR 1g W/kg
Front	0.466	0.561	0.612	0.562	0.288	0.083	0.612
Back	0.517	0.439	0.230	0.623	0.353	0.544	0.623

<WLAN2.4GHz/5GHz/6GHz+BT Worse-case SAR>:

	1	2	3	1+3	2+3	WLAN /BT worse case
Test Position	Bluetooth Ant 3	2.4GWLAN Ant 3+6	5/6GWLAN Ant 4+6	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
Front	0.012	0.102	0.267	0.279	0.369	0.369
Back	0.071	0.237	0.290	0.361	0.527	0.527

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

Test Position	AG0	AG1	Wlan/BT worse case	AG0+AG1+ WLAN /BT worse case
Front	0.604	0.612	0.369	1.59
Back	0.440	0.623	0.527	1.59

17.5 Product specific 10g SAR Exposure Conditions

Remark:

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

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

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

<AG0 maximum reported SAR>:

Test Position	Ant 0	Ant 2	All Antenna MAX SAR 10g W/kg
Front	1.925	3.086	3.086
Back	2.826	2.568	2.826
Left Side	1.865	0.000	1.865
Right Side	0.000	0.000	0.000
Top Side	0.000	0.000	0.000
Bottom Side	0.000	3.137	3.137

<AG1 maximum reported SAR>:

Test Position	Ant 1	Ant 4	Ant 5	Ant 7	Ant 9	Ant 10	All Antenna MAX SAR 10g W/kg
Front	1.684	1.288	1.832	1.691	1.481	0.000	1.832
Back	2.040	0.398	0.310	2.132	1.920	2.102	2.132
Left Side	0.430	0.000	0.000	1.945	2.350	0.000	2.350
Right Side	0.000	0.000	1.200	0.000	0.000	0.927	1.200
Top Side	2.439	2.361	0.931	0.000	0.000	0.532	2.439
Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<WLAN2.4GHz/5GHz/6GHz/BT + NFC Worse-case SAR>

	1	2	3	4	1+3+4	2+3+4	
Test Position	Bluetooth Ant 3	2.4GWLAN Ant 3+6	5/6GWLAN Ant 4+6	NFC	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	WLAN /BT+NFC worse case
Front	0.000	0.000	0.376	0.000	0.376	0.376	0.376
Back	0.000	0.128	0.155	0.040	0.195	0.323	0.323
Left Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Right Side	0.000	0.478	0.526	0.000	0.526	1.004	1.004
Top Side	0.000	0.000	0.448	0.000	0.448	0.448	0.448
Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

Test Position	AG0	AG1	Wlan/BT+ NFC worse case	AG0+AG1+ WLAN /BT+ NFC worse case
Front	3.086	1.832	0.376	5.29
Back	2.826	2.132	0.323	5.28
Left Side	1.865	2.350	0.000	4.22
Right Side	0.000	1.200	1.004	2.20
Top Side	0.000	2.439	0.448	2.89
Bottom Side	3.137	0.000	0.000	3.14

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

Front					
Ant,combination	AG0	AG1	Wlan/BT+NFC worse case	AG0+AG1+ WLAN /BT+NFC worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	1.925	1.684	0.376	3.99	—
Ant 0-Ant 4	1.925	1.288	0.376	3.59	
Ant 0-Ant 5	1.925	1.832	0.376	4.13	Case 59
Ant 0-Ant 7	1.925	1.691	0.376	3.99	—
Ant 0-Ant 9	1.925	1.481	0.376	3.78	—
Ant 0-Ant 10	1.925	0.000	0.376	2.30	
Ant 2-Ant 1	3.086	1.684	0.376	5.15	Case 60
Ant 2-Ant 4	3.086	1.288	0.376	4.75	Case 61
Ant 2-Ant 5	3.086	1.832	0.376	5.29	Case 62
Ant 2-Ant 7	3.086	1.691	0.376	5.15	Case 63
Ant 2-Ant 9	3.086	1.481	0.376	4.94	Case 64
Ant 2-Ant 10	3.086	0.000	0.376	3.46	

Back					
Ant,combination	AG0	AG1	Wlan/BT+NFC worse case	AG0+AG1+ WLAN /BT+NFC worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	2.826	2.040	0.323	5.19	Case 65
Ant 0-Ant 4	2.826	0.398	0.323	3.55	
Ant 0-Ant 5	2.826	0.310	0.323	3.46	
Ant 0-Ant 7	2.826	2.132	0.323	5.28	Case 66
Ant 0-Ant 9	2.826	1.920	0.323	5.07	Case 67
Ant 0-Ant 10	2.826	2.102	0.323	5.25	Case 68
Ant 2-Ant 1	2.568	2.040	0.323	4.93	Case 69
Ant 2-Ant 4	2.568	0.398	0.323	3.29	
Ant 2-Ant 5	2.568	0.310	0.323	3.20	
Ant 2-Ant 7	2.568	2.132	0.323	5.02	Case 70
Ant 2-Ant 9	2.568	1.920	0.323	4.81	Case 71
Ant 2-Ant 10	2.568	2.102	0.323	4.99	Case 72

Left Side					
Ant,combination	AG0	AG1	Wlan/BT+NFC worse case	AG0+AG1+ WLAN /BT+NFC worse case	SPLSR
	SAR	SAR			
Ant 0-Ant 1	1.865	0.430	0.000	2.30	—
Ant 0-Ant 4	1.865	0.000	0.000	1.87	
Ant 0-Ant 5	1.865	0.000	0.000	1.87	
Ant 0-Ant 7	1.865	1.945	0.000	3.81	
Ant 0-Ant 9	1.865	2.350	0.000	4.22	Case 73
Ant 0-Ant 10	1.865	0.000	0.000	1.87	
Ant 2-Ant 1	0.000	0.430	0.000	0.43	
Ant 2-Ant 4	0.000	0.000	0.000	0.00	
Ant 2-Ant 5	0.000	0.000	0.000	0.00	
Ant 2-Ant 7	0.000	1.945	0.000	1.95	
Ant 2-Ant 9	0.000	2.350	0.000	2.35	
Ant 2-Ant 10	0.000	0.000	0.000	0.00	

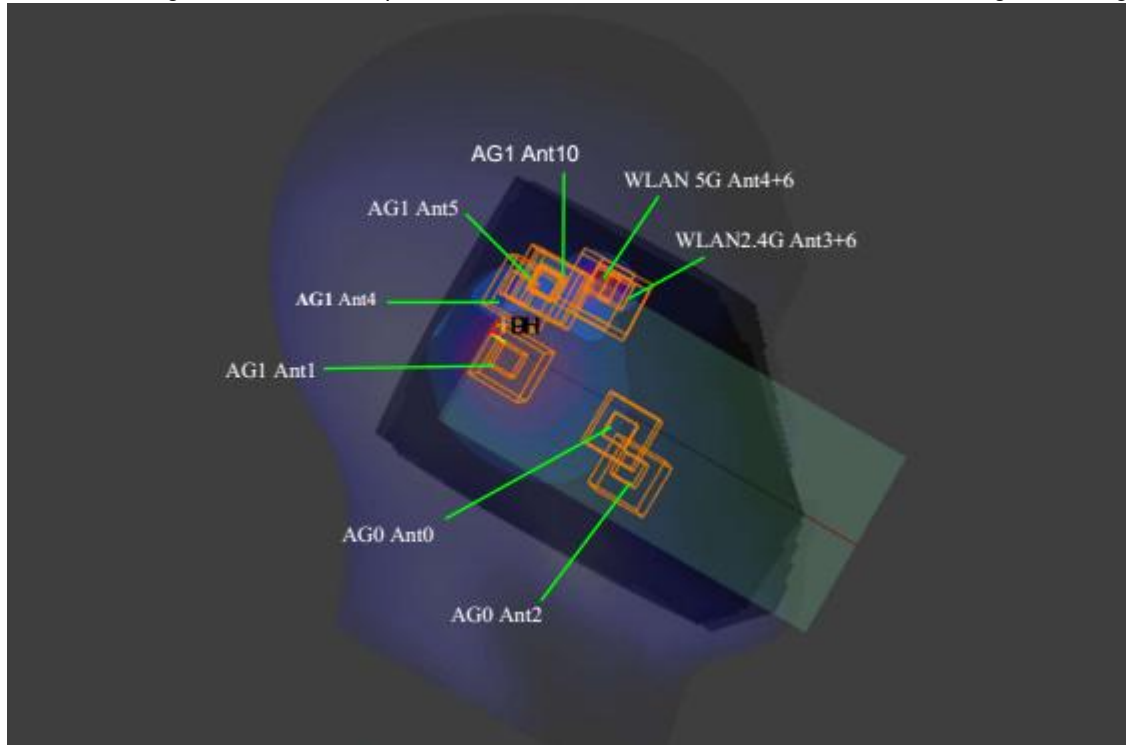
Simultaneous Transmission analysis of WLAN 5/6GHz+BT only and WWAN cell-off :

Test Position	1	2	1+2
	2.4GWLAN Ant 3+6	5/6GWLAN Ant 4+6	Summed 10g SAR (W/kg)
Front	0.000	1.458	1.46
Back	0.521	0.586	1.11
Left Side	0.000	0.000	0.00
Right Side	1.936	1.996	3.93
Top Side	0.000	1.759	1.76
Bottom Side	0.000	0.000	0.00

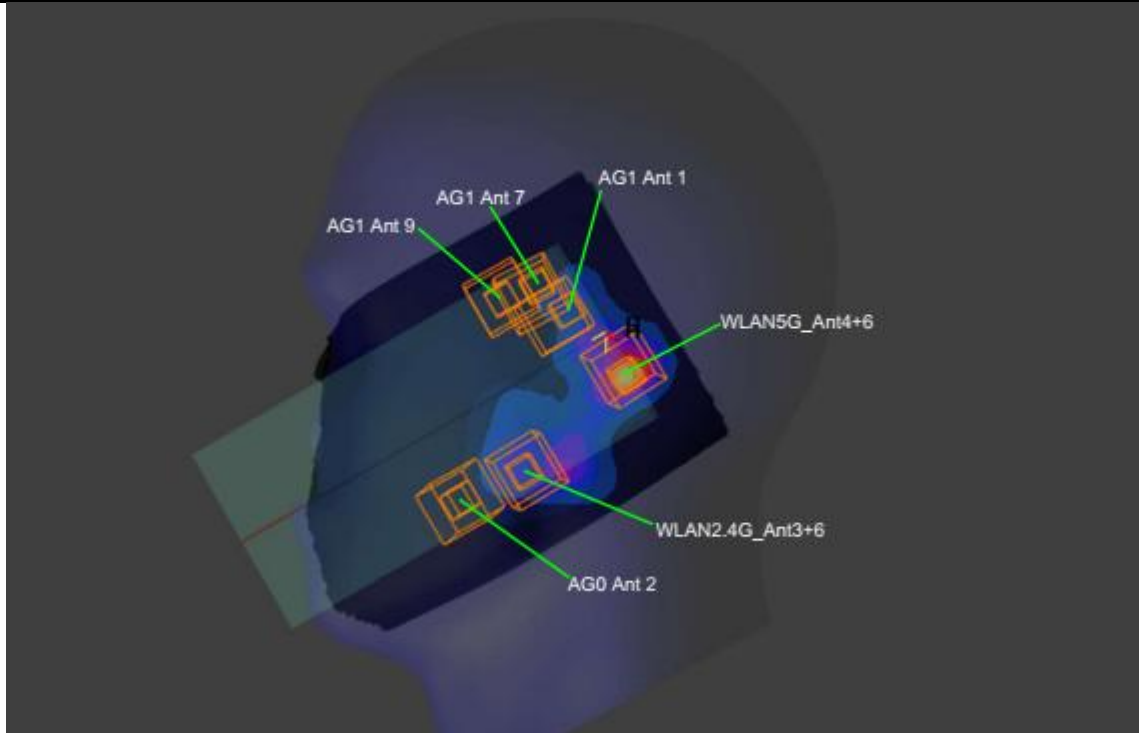
17.6 SPLSR Evaluation and Analysis

General Note:

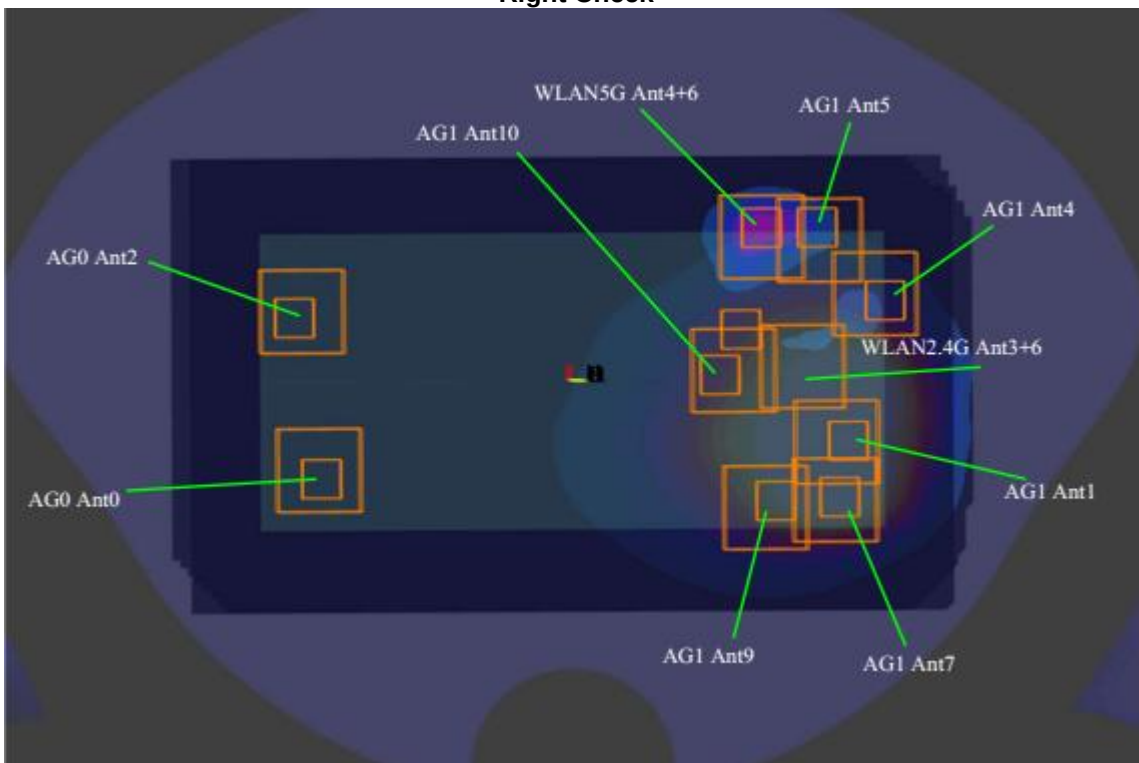
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, WLAN /BT/ NFC was summed algebraically with the AG1 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 17.7.
7. The small enlarged zoom scan was performed in section 17.8 for those with SPLSR exceeding 0.04 for 1g SAR.



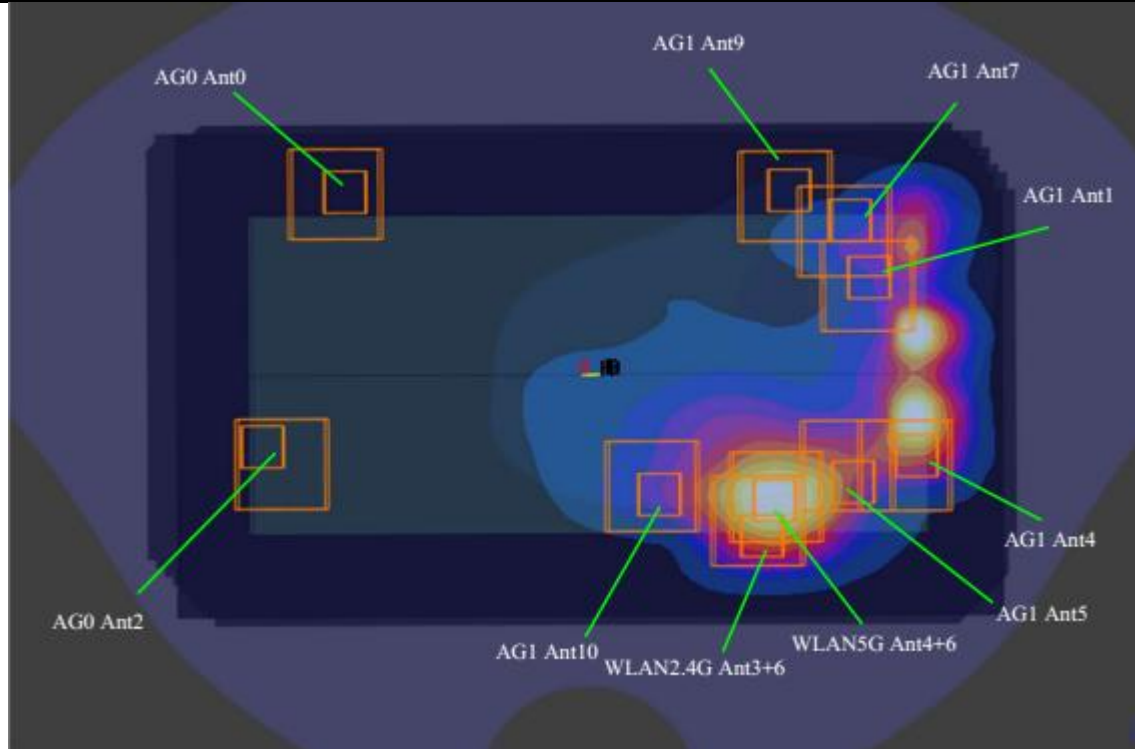
Left Cheek



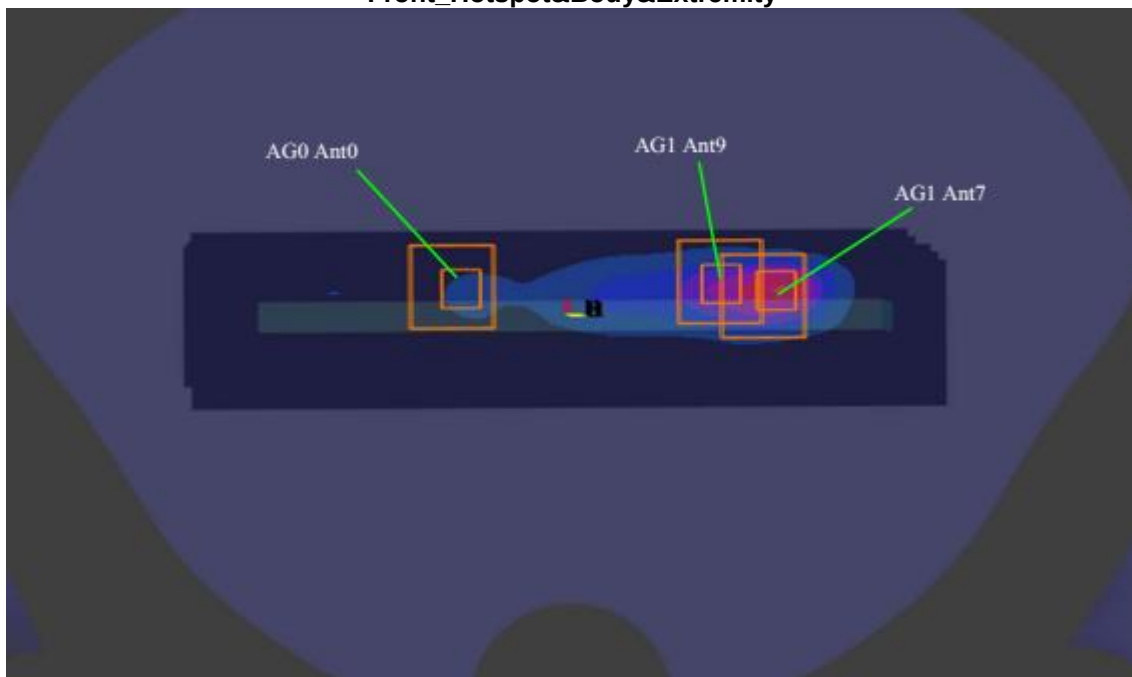
Right Cheek



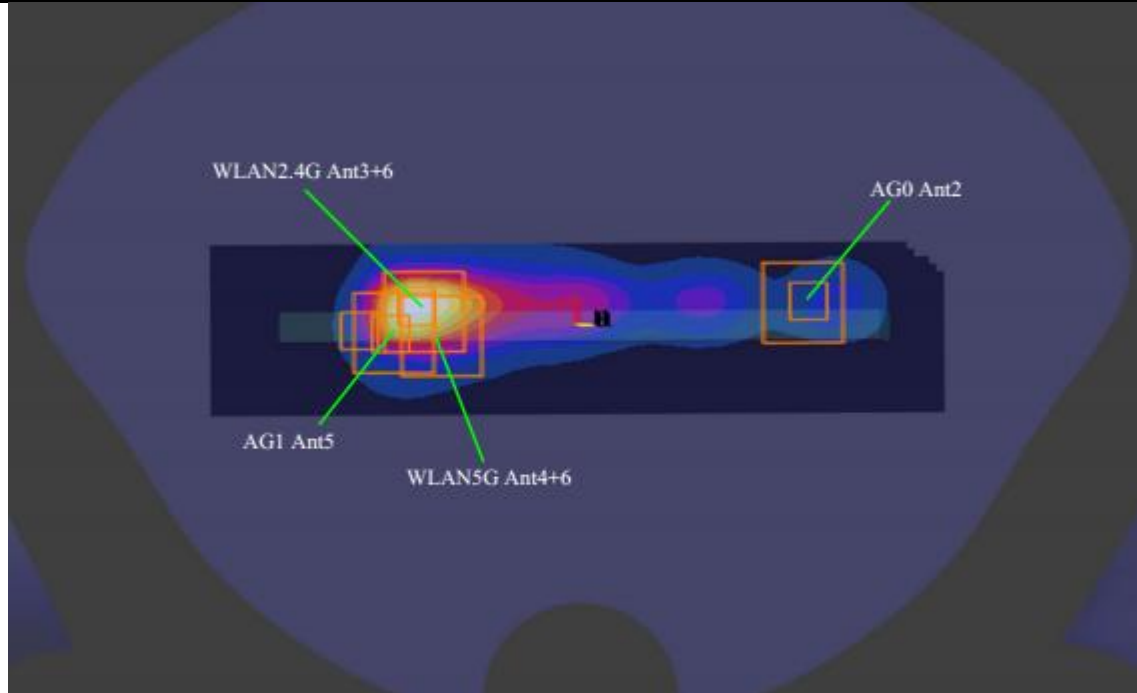
Back_Hotspot&Body&Extremity



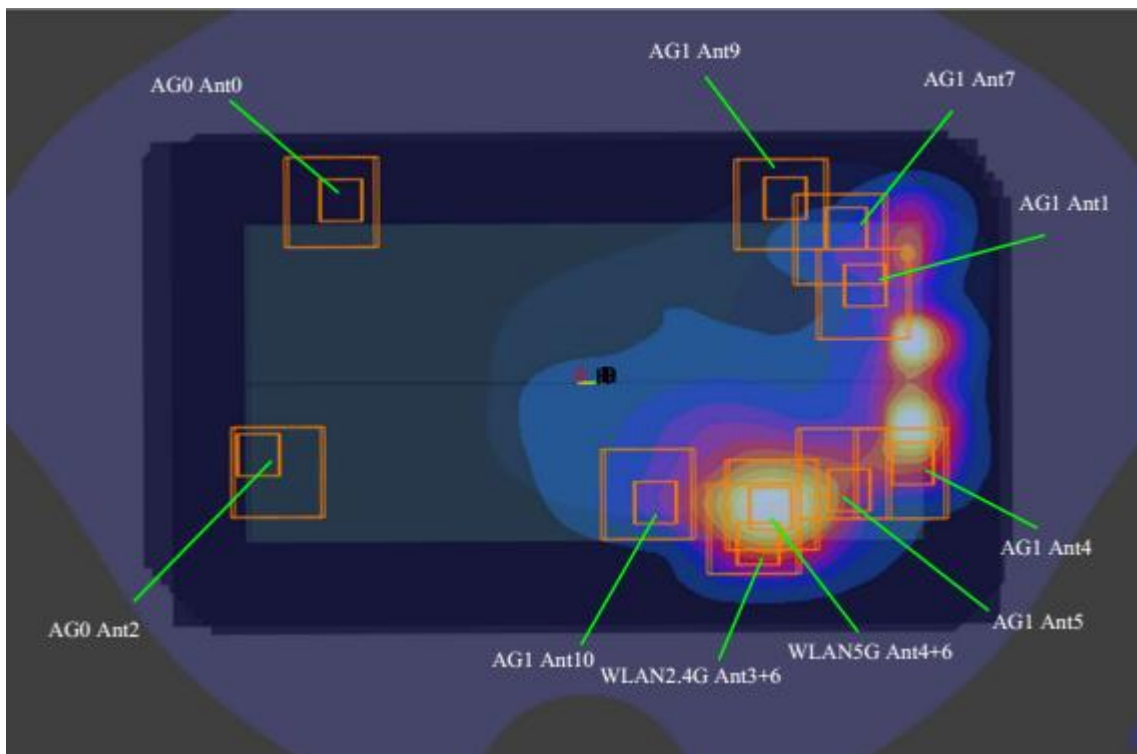
Front_Hotspot&Body&Extremity



Left Side_Hotspot&Extremity



Right Side_Hotspot



Front_5mm&0mm



<Head>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	small enlarged zoom scan
Case 1	AG0-Ant 2	Right Cheek	0.475	0.48	0mm	53.10	-247.40	-169.90	83.7	1.75	0.03	Not required	small enlarged zoom scan Case 1/2
	AG1-Ant 1		0.881	1.28	0mm	9.40	-318.80	-169.60					
	WLAN		0.396	0mm									
	AG0-Ant 2	Right Cheek	0.475	0.48	0mm	53.10	-247.40	-169.90	17.0	1.75	0.14	Required	
	AG1-Ant 1		0.881	1.28	0mm								
	WLAN		0.396	0mm	38.70	-256.40	-170.40						
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	small enlarged zoom scan
Case 2	AG0-Ant 2	Right Cheek	0.475	0.48	0mm	53.10	-247.40	-169.90	84.1	1.69	0.03	Not required	small enlarged zoom scan Case 3/4
	AG1-Ant 7		0.820	1.22	0mm	31.30	-328.60	-170.80					
	WLAN		0.396	0mm									
	AG0-Ant 2	Right Cheek	0.475	0.48	0mm	53.10	-247.40	-169.90	17.0	1.69	0.13	Required	
	AG1-Ant 7		0.820	1.22	0mm								
	WLAN		0.396	0mm	38.70	-256.40	-170.40						
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	small enlarged zoom scan
Case 3	AG0-Ant 2	Right Cheek	0.475	0.48	0mm	53.10	-247.40	-169.90	72.5	1.75	0.03	Not required	small enlarged zoom scan Case 5/6
	AG1-Ant 9		0.878	1.27	0mm	46.30	-319.60	-171.30					
	WLAN		0.396	0mm									
	AG0-Ant 2	Right Cheek	0.475	0.48	0mm	53.10	-247.40	-169.90	17.0	1.75	0.14	Required	
	AG1-Ant 9		0.878	1.27	0mm								
	WLAN		0.396	0mm	38.70	-256.40	-170.40						

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	small enlarged zoom scan
Case 4	AG0-Ant 0	Left Cheek	0.469	0.47	0mm	56.00	279.70	-171.80	63.0	1.72	0.04	Not required	small enlarged zoom scan Case 7/8
	AG1-Ant 1		0.569	1.25	0mm	-5.10	293.50	-165.00					
	WLAN		0.683	0mm									
	AG0-Ant 0	Left Cheek	0.469	0.47	0mm	56.00	279.70	-171.80	46.9	1.72	0.05	Required	
	AG1-Ant 1		0.569	1.25	0mm								
	WLAN		0.683	0mm	53.10	326.50	-169.50						
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	small enlarged zoom scan
Case 5	AG0-Ant 0	Left Cheek	0.469	0.47	0mm	56.00	279.70	-171.80	62.7	1.83	0.04	Not required	small enlarged zoom scan Case 9/10
	AG1-Ant 4		0.673	1.36	0mm	14.70	326.90	-169.80					
	WLAN		0.683	0mm									
	AG0-Ant 0	Left Cheek	0.469	0.47	0mm	56.00	279.70	-171.80	46.9	1.83	0.05	Required	
	AG1-Ant 4		0.673	1.36	0mm								
	WLAN		0.683	0mm	53.10	326.50	-169.50						
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	small enlarged zoom scan
Case 6	AG0-Ant 0	Left Cheek	0.469	0.47	0mm	56.00	279.70	-171.80	58.6	2.00	0.05	Required	small enlarged zoom scan Case 11/12
	AG1-Ant 5		0.844	1.53	0mm	27.40	330.80	-170.40					
	WLAN		0.683	0mm									
	AG0-Ant 0	Left Cheek	0.469	0.47	0mm	56.00	279.70	-171.80	46.9	2.00	0.06	Required	
	AG1-Ant 5		0.844	1.53	0mm								
	WLAN		0.683	0mm	53.10	326.50	-169.50						
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	small enlarged zoom scan
Case 7	AG0-Ant 2	Left Cheek	0.323	0.32	0mm	60.50	299.60	-170.60	53.3	1.68	0.04	Not required	small enlarged zoom scan Case 13/14
	AG1-Ant 4		0.673	1.36	0mm	14.70	326.90	-169.80					
	WLAN		0.683	0mm									
	AG0-Ant 2	Left	0.323	0.32	0mm	56.80	301.90	-171.20	24.9	1.68	0.09	Required	



FCC SAR Test Report

Report No. : FA612609

	AG1-Ant 4	Cheek	0.673	1.36	0mm								
	WLAN		0.683		0mm	53.10	326.50	-169.50					
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	small enlarged zoom scan
						X	Y	Z					
Case 8	AG0-Ant 2	Left Cheek	0.323	0.32	0mm	60.50	299.60	-170.60	45.5	1.85	0.06	Required	small enlarged zoom scan Case 15/16
	AG1-Ant 5		0.844	1.53	0mm	27.40	330.80	-170.40					
	WLAN		0.683		0mm								
	AG0-Ant 2	Left Cheek	0.323	0.32	0mm	56.80	301.90	-171.20	24.9	1.85	0.10	Required	
	AG1-Ant 5		0.844	1.53	0mm								
	WLAN		0.683		0mm	53.10	326.50	-169.50					

<Hotspot>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 14	AG0-Ant 0	Front	1.223	1.22	5mm	-70.00	-56.00	-203.00	122.2	1.86	0.02	Not required
	AG1-Ant 1		0.333	0.64	5mm	-40.00	62.50	-203.00				
	WLAN		0.303		5mm							
	AG0-Ant 0	Front	1.223	1.22	5mm	-70.00	-56.00	-203.00	130.2	1.86	0.02	Not required
	AG1-Ant 1		0.333	0.64	5mm							
	WLAN		0.303		5mm	15.00	42.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 15	AG0-Ant 0	Front	1.223	1.22	5mm	-70.00	-56.00	-203.00	151.6	1.80	0.02	Not required
	AG1-Ant 4		0.275	0.58	5mm	-5.00	81.00	-203.00				
	WLAN		0.303		5mm							
	AG0-Ant 0	Front	1.223	1.22	5mm	-70.00	-56.00	-203.00	130.2	1.80	0.02	Not required
	AG1-Ant 4		0.275	0.58	5mm							
	WLAN		0.303		5mm	15.00	42.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 16	AG0-Ant 0	Front	1.223	1.22	5mm	-70.00	-56.00	-203.00	141.5	2.06	0.02	Not required
	AG1-Ant 5		0.531	0.83	5mm	5.00	64.00	-203.00				
	WLAN		0.303		5mm							
	AG0-Ant 0	Front	1.223	1.22	5mm	-70.00	-56.00	-203.00	130.2	2.06	0.02	Not required
	AG1-Ant 5		0.531	0.83	5mm							
	WLAN		0.303		5mm	15.00	42.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 17	AG0-Ant 0	Front	1.223	1.22	5mm	-70.00	-56.00	-203.00	119.6	1.84	0.02	Not required
	AG1-Ant 7		0.309	0.61	5mm	-65.00	63.50	-203.00				
	WLAN		0.303		5mm							
	AG0-Ant 0	Front	1.223	1.22	5mm	-70.00	-56.00	-203.00	130.2	1.84	0.02	Not required
	AG1-Ant 7		0.309	0.61	5mm							
	WLAN		0.303		5mm	15.00	42.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 18	AG0-Ant 0	Front	1.223	1.22	5mm	-70.00	-56.00	-203.00	100.3	1.86	0.03	Not required
	AG1-Ant 9		0.337	0.64	5mm	-70.00	44.30	-203.00				
	WLAN		0.303		5mm							
	AG0-Ant 0	Front	1.223	1.22	5mm	-70.00	-56.00	-203.00	130.2	1.86	0.02	Not required
	AG1-Ant 9		0.337	0.64	5mm							
	WLAN		0.303		5mm	15.00	42.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				



FCC SAR Test Report

Report No. : FA612609

Case 19	AG0-Ant 2	Front	0.838	0.84	5mm	-5.00	-73.10	-203.00	137.5	1.67	0.02	Not required
	AG1-Ant 5		0.531	0.83	5mm	5.00	64.00	-203.00				
	WLAN		0.303		5mm							
	AG0-Ant 2	Front	0.838	0.84	5mm	-5.00	-73.10	-203.00	117.4	1.67	0.02	Not required
	AG1-Ant 5		0.531	0.83	5mm							
	WLAN		0.303		5mm	15.00	42.60	-203.00				

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 20	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	138.9	2.65	0.03	Not required
	AG1-Ant 1		0.609	1.39	5mm	-10.00	72.60	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.65	0.04	Not required
	AG1-Ant 1		0.609	1.39	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 21	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	155.4	2.36	0.02	Not required
	AG1-Ant 4		0.325	1.10	5mm	-45.00	81.60	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.36	0.03	Not required
	AG1-Ant 4		0.325	1.10	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 22	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	146.3	2.40	0.03	Not required
	AG1-Ant 5		0.366	1.14	5mm	-65.00	63.00	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.40	0.03	Not required
	AG1-Ant 5		0.366	1.14	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 23	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	134.0	2.62	0.03	Not required
	AG1-Ant 7		0.586	1.36	5mm	5.00	68.50	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.62	0.04	Not required
	AG1-Ant 7		0.586	1.36	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 24	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	115.4	2.61	0.04	Not required
	AG1-Ant 9		0.568	1.35	5mm	5.00	49.90	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.61	0.03	Not required
	AG1-Ant 9		0.568	1.35	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 25	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	105.9	2.61	0.04	Not required
	AG1-Ant 10		0.568	1.35	5mm	-25.00	36.10	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.61	0.03	Not required
	AG1-Ant 10		0.568	1.35	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				



Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 26	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	144.7	2.00	0.02	Not required
	AG1-Ant 1		0.609	1.39	5mm	-10.00	72.60	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	111.6	2.00	0.03	Not required
	AG1-Ant 1		0.609	1.39	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 27	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	149.4	1.71	0.01	Not required
	AG1-Ant 4		0.325	1.10	5mm	-45.00	81.60	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	111.6	1.71	0.02	Not required
	AG1-Ant 4		0.325	1.10	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 28	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	132.3	1.75	0.02	Not required
	AG1-Ant 5		0.366	1.14	5mm	-65.00	63.00	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	111.6	1.75	0.02	Not required
	AG1-Ant 5		0.366	1.14	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 29	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	145.2	1.97	0.02	Not required
	AG1-Ant 7		0.586	1.36	5mm	5.00	68.50	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	111.6	1.97	0.02	Not required
	AG1-Ant 7		0.586	1.36	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 30	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	127.9	1.96	0.02	Not required
	AG1-Ant 9		0.568	1.35	5mm	5.00	49.90	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	111.6	1.96	0.02	Not required
	AG1-Ant 9		0.568	1.35	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 31	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	105.8	1.96	0.03	Not required
	AG1-Ant 10		0.568	1.35	5mm	-25.00	36.10	-203.00				
	WLAN		0.778		5mm							
	AG0-Ant 2	Back	0.609	0.61	5mm	-45.00	-67.80	-203.00	111.6	1.96	0.02	Not required
	AG1-Ant 10		0.568	1.35	5mm							
	WLAN		0.778		5mm	-45.00	43.80	-203.00				

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 32	AG0-Ant 0	Left Side	1.278	1.28	5mm	-33.00	-45.20	-203.00	101.1	1.77	0.02	Not required
	AG1-Ant 7		0.490	0.49	5mm	-33.00	55.90	-203.00				
	WLAN		0.000		5mm							
Case	Band	Position	SAR	SAR	Gap	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous



FCC SAR Test Report

Report No. : FA612609

No			(W/kg)	(W/kg)	(mm)	X	Y	Z	distance (mm)	SAR (W/kg)		
Case 33	AG0-Ant 0	Left Side	1.278	1.28	5mm	-33.00	-45.20	-203.00	85.5	1.89	0.03	Not required
	AG1-Ant 9		0.610	0.61	5mm	-33.00	40.30	-203.00				
	WLAN		0.000		5mm							

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 34	AG0-Ant 2	Right Side	0.332	0.33	5mm	-33.00	61.60	-203.00	105.8	1.83	0.02	Not required
	AG1-Ant 5		0.613	1.50	5mm	-33.00	-44.20	-203.00				
	WLAN		0.887		5mm							
	AG0-Ant 2	Right Side	0.332	0.33	5mm	-33.00	61.60	-203.00	109.9	1.83	0.02	Not required
	AG1-Ant 5		0.613	1.50	5mm							
	WLAN		0.887		5mm	-25.00	-48.00	-203.00				

<Body-worn>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 35	AG0-Ant 0	Front	1.251	1.25	5mm	-70.00	-56.00	-203.00	122.2	2.34	0.03	Not required
	AG1-Ant 1		0.640	1.09	5mm	-40.00	62.50	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 0	Front	1.251	1.25	5mm	-70.00	-56.00	-203.00	132.5	2.34	0.03	Not required
	AG1-Ant 1		0.640	1.09	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 36	AG0-Ant 0	Front	1.251	1.25	5mm	-45.00	-61.80	-203.00	148.3	2.28	0.02	Not required
	AG1-Ant 4		0.582	1.03	5mm	-5.00	81.00	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 0	Front	1.251	1.25	5mm	-70.00	-56.00	-203.00	132.5	2.28	0.03	Not required
	AG1-Ant 4		0.582	1.03	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 37	AG0-Ant 0	Front	1.251	1.25	5mm	-45.00	-61.80	-203.00	135.4	2.47	0.03	Not required
	AG1-Ant 5		0.768	1.22	5mm	5.00	64.00	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 0	Front	1.251	1.25	5mm	-70.00	-56.00	-203.00	132.5	2.47	0.03	Not required
	AG1-Ant 5		0.768	1.22	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 38	AG0-Ant 0	Front	1.251	1.25	5mm	-70.00	-56.00	-203.00	119.6	2.34	0.03	Not required
	AG1-Ant 7		0.639	1.09	5mm	-65.00	63.50	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 0	Front	1.251	1.25	5mm	-70.00	-56.00	-203.00	132.5	2.34	0.03	Not required
	AG1-Ant 7		0.639	1.09	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 39	AG0-Ant 0	Front	1.251	1.25	5mm	-70.00	-56.00	-203.00	100.3	2.26	0.03	Not required
	AG1-Ant 9		0.554	1.01	5mm	-70.00	44.30	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 0	Front	1.251	1.25	5mm	-70.00	-56.00	-203.00	132.5	2.26	0.03	Not required
	AG1-Ant 9		0.554	1.01	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				



FCC SAR Test Report

Report No. : FA612609

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					(mm)	X	Y	Z				
Case 40	AG0-Ant 0	Front	1.251	1.25	5mm	-45.00	-61.80	-203.00	94.5	1.77	0.02	Not required
	AG1-Ant 10		0.066	0.52	5mm	5.00	18.40	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 0	Front	1.251	1.25	5mm	-70.00	-56.00	-203.00	132.5	1.77	0.02	Not required
	AG1-Ant 10		0.066	0.52	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 41	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	140.0	2.37	0.03	Not required
	AG1-Ant 1		0.640	1.09	5mm	-40.00	62.50	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	120.4	2.37	0.03	Not required
	AG1-Ant 1		0.640	1.09	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 42	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	154.1	2.32	0.02	Not required
	AG1-Ant 4		0.582	1.03	5mm	-5.00	81.00	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	120.4	2.32	0.03	Not required
	AG1-Ant 4		0.582	1.03	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 43	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	137.5	2.50	0.03	Not required
	AG1-Ant 5		0.768	1.22	5mm	5.00	64.00	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	120.4	2.50	0.03	Not required
	AG1-Ant 5		0.768	1.22	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 44	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	149.2	2.37	0.02	Not required
	AG1-Ant 7		0.639	1.09	5mm	-65.00	63.50	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	120.4	2.37	0.03	Not required
	AG1-Ant 7		0.639	1.09	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 45	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	134.2	2.29	0.03	Not required
	AG1-Ant 9		0.554	1.01	5mm	-70.00	44.30	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	120.4	2.29	0.03	Not required
	AG1-Ant 9		0.554	1.01	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 46	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	92.0	1.80	0.03	Not required
	AG1-Ant 10		0.066	0.52	5mm	5.00	18.40	-203.00				
	WLAN		0.451		5mm							
	AG0-Ant 2	Front	1.282	1.28	5mm	-5.00	-73.10	-203.00	120.4	1.80	0.02	Not required
	AG1-Ant 10		0.066	0.52	5mm							
	WLAN		0.451		5mm	15.00	45.60	-203.00				

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 47	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	138.9	2.80	0.03	Not required
	AG1-Ant 1		0.871	1.54	5mm	-10.00	72.60	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.80	0.04	Not required
	AG1-Ant 1		0.871	1.54	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 48	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	155.4	2.67	0.03	Not required
	AG1-Ant 4		0.742	1.41	5mm	-45.00	81.60	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.67	0.04	Not required
	AG1-Ant 4		0.742	1.41	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 49	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	146.3	2.35	0.02	Not required
	AG1-Ant 5		0.425	1.09	5mm	-65.00	63.00	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.35	0.03	Not required
	AG1-Ant 5		0.425	1.09	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 50	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	134.0	2.73	0.03	Not required
	AG1-Ant 7		0.803	1.47	5mm	5.00	68.50	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.73	0.04	Not required
	AG1-Ant 7		0.803	1.47	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 51	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	115.4	2.81	0.04	Not required
	AG1-Ant 9		0.884	1.55	5mm	5.00	49.90	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.81	0.04	Not required
	AG1-Ant 9		0.884	1.55	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 52	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	105.9	2.69	0.04	Not required
	AG1-Ant 10		0.765	1.43	5mm	-25.00	36.10	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 0	Back	1.259	1.26	5mm	5.00	-65.50	-203.00	120.2	2.69	0.04	Not required
	AG1-Ant 10		0.765	1.43	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 53	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	144.7	2.79	0.03	Not required
	AG1-Ant 1		0.871	1.54	5mm	-10.00	72.60	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	111.6	2.79	0.04	Not required



	AG1-Ant 1		0.871	1.54	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 54	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	149.4	2.66	0.03	Not required
	AG1-Ant 4		0.742	1.41	5mm	-45.00	81.60	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	111.6	2.66	0.04	Not required
	AG1-Ant 4		0.742	1.41	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 55	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	132.3	2.34	0.03	Not required
	AG1-Ant 5		0.425	1.09	5mm	-65.00	63.00	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	111.6	2.34	0.03	Not required
	AG1-Ant 5		0.425	1.09	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 56	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	145.2	2.72	0.03	Not required
	AG1-Ant 7		0.803	1.47	5mm	5.00	68.50	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	111.6	2.72	0.04	Not required
	AG1-Ant 7		0.803	1.47	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 57	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	127.9	2.80	0.04	Not required
	AG1-Ant 9		0.884	1.55	5mm	5.00	49.90	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	111.6	2.80	0.04	Not required
	AG1-Ant 9		0.884	1.55	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 58	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	105.8	2.68	0.04	Not required
	AG1-Ant 10		0.765	1.43	5mm	-25.00	36.10	-203.00				
	WLAN		0.669		5mm							
	AG0-Ant 2	Back	1.247	1.25	5mm	-45.00	-67.80	-203.00	111.6	2.68	0.04	Not required
	AG1-Ant 10		0.765	1.43	5mm							
	WLAN		0.669		5mm	-45.00	43.80	-203.00				

Extremity

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 59	AG0-Ant 0	Front	1.925	1.93	0mm	-47.00	-62.70	-203.00	138.4	4.13	0.06	Not required
	AG1-Ant 5		1.832	2.21	0mm	5.00	65.60	-203.00				
	WLAN		0.376		0mm							
	AG0-Ant 0	Front	1.925	1.93	0mm	-47.00	-62.70	-203.00	127.6	4.13	0.07	Not required
	AG1-Ant 5		1.832	2.21	0mm							
	WLAN		0.376		0mm	14.20	49.30	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case	AG0-Ant 2	Front	3.086	3.09	0mm	-5.00	-74.70	-203.00	159.0	5.15	0.07	Not required



FCC SAR Test Report

Report No. : FA612609

60	AG1-Ant 1	Front	1.684	2.06	0mm	-40.00	80.40	-203.00	125.5	5.15	0.09	Not required
	WLAN		0.376		0mm							
	AG0-Ant 2		3.086	3.09	0mm	-5.00	-74.70	-203.00				
	AG1-Ant 1		1.684	2.06	0mm							
	WLAN		0.376		0mm	14.20	49.30	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 61	AG0-Ant 2	Front	3.086	3.09	0mm	-5.00	-74.70	-203.00	157.4	4.75	0.07	Not required
	AG1-Ant 4		1.288	1.66	0mm	-5.00	82.70	-203.00				
	WLAN		0.376		0mm							
	AG0-Ant 2	Front	3.086	3.09	0mm	-5.00	-74.70	-203.00	125.5	4.75	0.08	Not required
	AG1-Ant 4		1.288	1.66	0mm							
	WLAN		0.376		0mm	14.20	49.30	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 62	AG0-Ant 2	Front	3.086	3.09	0mm	-5.00	-74.70	-203.00	140.7	5.29	0.09	Not required
	AG1-Ant 5		1.832	2.21	0mm	5.00	65.60	-203.00				
	WLAN		0.376		0mm							
	AG0-Ant 2	Front	3.086	3.09	0mm	-5.00	-74.70	-203.00	125.5	5.29	0.10	Not required
	AG1-Ant 5		1.832	2.21	0mm							
	WLAN		0.376		0mm	14.20	49.30	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 63	AG0-Ant 2	Front	3.086	3.09	0mm	-5.00	-74.70	-203.00	150.8	5.15	0.08	Not required
	AG1-Ant 7		1.691	2.07	0mm	-62.30	64.80	-203.00				
	WLAN		0.376		0mm							
	AG0-Ant 2	Front	3.086	3.09	0mm	-5.00	-74.70	-203.00	125.5	5.15	0.09	Not required
	AG1-Ant 7		1.691	2.07	0mm							
	WLAN		0.376		0mm	14.20	49.30	-203.00				
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 64	AG0-Ant 2	Front	3.086	3.09	0mm	-5.00	-74.70	-203.00	133.4	4.94	0.08	Not required
	AG1-Ant 9		1.481	1.86	0mm	-68.30	42.70	-203.00				
	WLAN		0.376		0mm							
	AG0-Ant 2	Front	3.086	3.09	0mm	-5.00	-74.70	-203.00	125.5	4.94	0.09	Not required
	AG1-Ant 9		1.481	1.86	0mm							
	WLAN		0.376		0mm	14.20	49.30	-203.00				

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 65	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	132.7	5.19	0.09	Not required
	AG1-Ant 1		2.040	2.36	0mm	-10.00	70.80	-203.00				
	NFC		0.040		0mm							
	WLAN		0.283		0mm							
	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	115.8	5.19	0.10	Not required
	AG1-Ant 1		2.040	2.36	0mm							
	NFC		0.040		0mm							
	WLAN		0.283		0mm	-45.00	43.50	-203.00				
	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	212.0	5.19	0.06	Not required
	AG1-Ant 1		2.040	2.36	0mm							
	NFC		0.040		0mm	-6.50	24.00	-205.00				
	WLAN		0.283		0mm							
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	134.0	5.28	0.09	Not required



FCC SAR Test Report

Report No. : FA612609

66	AG1-Ant 7		2.132	2.46	0mm	5.00	73.00	-203.00				
	NFC		0.040		0mm							
	WLAN		0.283		0mm							
	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	115.8	5.28	0.10	Not required
	AG1-Ant 7		2.132	2.46	0mm							
	NFC		0.040		0mm							
	WLAN		0.283		0mm	-45.00	43.50	-203.00				
	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	212.0	5.28	0.06	Not required
	AG1-Ant 7		2.132	2.46	0mm							
	NFC		0.040		0mm	-6.50	24.00	-205.00				
	WLAN		0.283		0mm							
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 67	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	108.8	5.07	0.10	Not required
	AG1-Ant 9		1.920	2.24	0mm	5.00	47.80	-203.00				
	NFC		0.040		0mm							
	WLAN		0.283		0mm							
	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	115.8	5.07	0.10	Not required
	AG1-Ant 9		1.920	2.24	0mm							
	NFC		0.040		0mm							
	WLAN		0.283		0mm	-45.00	43.50	-203.00				
	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	212.0	5.07	0.05	Not required
	AG1-Ant 9		1.920	2.24	0mm							
	NFC		0.040		0mm	-6.50	24.00	-205.00				
	WLAN		0.283		0mm							
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 68	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	114.8	5.25	0.10	Not required
	AG1-Ant 10		2.102	2.43	0mm	-35.00	46.60	-203.00				
	NFC		0.040		0mm							
	WLAN		0.283		0mm							
	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	115.8	5.25	0.10	Not required
	AG1-Ant 10		2.102	2.43	0mm							
	NFC		0.040		0mm							
	WLAN		0.283		0mm	-45.00	43.50	-203.00				
	AG0-Ant 0	Back	2.826	2.83	0mm	5.00	-61.00	-203.00	212.0	5.25	0.06	Not required
	AG1-Ant 10		2.102	2.43	0mm							
	NFC		0.040		0mm	-6.50	24.00	-205.00				
	WLAN		0.283		0mm							
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 69	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	140.0	4.93	0.08	Not required
	AG1-Ant 1		2.040	2.36	0mm	-10.00	70.80	-203.00				
	NFC		0.040		0mm							
	WLAN		0.283		0mm							
	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	108.3	4.93	0.10	Not required
	AG1-Ant 1		2.040	2.36	0mm							
	NFC		0.040		0mm							
	WLAN		0.283		0mm	-45.00	43.50	-203.00				
	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	217.8	4.93	0.05	Not required
	AG1-Ant 1		2.040	2.36	0mm							
	NFC		0.040		0mm	-6.50	24.00	-205.00				
	WLAN		0.283		0mm							
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	146.6	5.02	0.08	Not required



FCC SAR Test Report

Report No. : FA612609

70	AG1-Ant 7		2.132	2.46	0mm	5.00	73.00	-203.00				
	NFC		0.040		0mm							
	WLAN		0.283		0mm							
	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	108.3	5.02	0.10	Not required
	AG1-Ant 7		2.132	2.46	0mm							
	NFC		0.040		0mm							
	WLAN		0.283		0mm	-45.00	43.50	-203.00				
	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	217.8	5.02	0.05	Not required
	AG1-Ant 7		2.132	2.46	0mm							
	NFC		0.040		0mm	-6.50	24.00	-205.00				
	WLAN		0.283		0mm							
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 71	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	123.2	4.81	0.09	Not required
	AG1-Ant 9		1.920	2.24	0mm	5.00	47.80	-203.00				
	NFC		0.040		0mm							
	WLAN		0.283		0mm							
	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	108.3	4.81	0.10	Not required
	AG1-Ant 9		1.920	2.24	0mm							
	NFC		0.040		0mm							
	WLAN		0.283		0mm	-45.00	43.50	-203.00				
	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	217.8	4.81	0.05	Not required
	AG1-Ant 9		1.920	2.24	0mm							
	NFC		0.040		0mm	-6.50	24.00	-205.00				
	WLAN		0.283		0mm							
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 72	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	111.8	4.99	0.10	Not required
	AG1-Ant 10		2.102	2.43	0mm	-35.00	46.60	-203.00				
	NFC		0.040		0mm							
	WLAN		0.283		0mm							
	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	108.3	4.99	0.10	Not required
	AG1-Ant 10		2.102	2.43	0mm							
	NFC		0.040		0mm							
	WLAN		0.283		0mm	-45.00	43.50	-203.00				
	AG0-Ant 2	Back	2.568	2.57	0mm	-45.00	-64.80	-203.00	217.8	4.99	0.05	Not required
	AG1-Ant 10		2.102	2.43	0mm							
	NFC		0.040		0mm	-6.50	24.00	-205.00				
	WLAN		0.283		0mm							
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 73	AG0-Ant 0	Left Side	1.865	1.87	0mm	-32.00	-46.30	-203.00	87.6	4.22	0.10	Not required
	AG1-Ant 9		2.350	2.35	0mm	-32.00	41.30	-203.00				
	WLAN		0.000		0mm							

17.7 SAR Peak Locations of Maximum Reported SAR

General Note:

1. The SAR Peak Locations of maximum reported SAR corresponding to each position of each frequency band of each antenna in the below tables are as follows.
2. The unit of SAR evaluation is W/kg. The unit of x, y, z with Axis evaluation is mm.

<Head>

Right Cheek								
Freq.	Support,Band		Ant 1	Ant 7	Ant 9	Ant 2	Ant3/Ant 3+6	Ant 4+6
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR	NA					
		Axis(X,Y,Z)	X:16.1 Y:-320.6 Z:-170.3					
835MHz	GSM850; WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR	NA					
		Axis(X,Y,Z)	X:16.1 Y:-320.6 Z:-170.3					
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66/70	Max,SAR	NA		NA	NA		
		Axis(X,Y,Z)	X:12.2 Y:-322.8 Z:-169.9		X:43.6 Y:-321.2 Z:-171.3	X:61.9 Y:-242.1 Z:-167.1		
1900MHz	GSM1900; WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	NA		NA	NA		
		Axis(X,Y,Z)	X:11.7 Y:-323.1 Z:-169.8		X:44.1 Y:-320.9 Z:-171.2	X:58.3 Y:-244.2 Z:-168.4		
2300MHz	LTE,Band,30 FR1,n30	Max,SAR	NA		NA	NA		
		Axis(X,Y,Z)	X:9.5 Y:-318.8 Z:-169.6		X:46.1 Y:-319.7 Z:-171.3	X:55.3 Y:-246.1 Z:-169.4		
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA		NA	NA		
		Axis(X,Y,Z)	X:9.4 Y:-318.8 Z:-169.6		X:46.3 Y:-319.6 Z:-171.3	X:53.1 Y:-247.4 Z:-169.9		
3500/3700/3900MHz	LTE,Band,42/48 FR1,n48/77/78	Max,SAR		NA				
		Axis(X,Y,Z)		X:31.3 Y:-328.6 Z:-170.8				
2450MHz	2.4GWLAN	Max,SAR					NA	
		Axis(X,Y,Z)					X:38.7 Y:-256.4 Z:-170.4	
2450MHz	Bluetooth	Max,SAR						
		Axis(X,Y,Z)						
5250/5600/5800/6500 MHz	5/6GWLAN	Max,SAR						NA
		Axis(X,Y,Z)						X:-2.4 Y:-291.8 Z:-165.6

Left Cheek										
Freq.	Support,Band		Ant 1	Ant 5	Ant 10	Ant 0	Ant 2	Ant 4	Ant3/Ant 3+6	Ant 4+6
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR	NA			NA				
		Axis(X,Y,Z)	X:13.3 Y:305.3 Z:-169.7			X:53.2 Y:264.4 Z:-171.5				
835MHz	GSM850; WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR	NA			NA				
		Axis(X,Y,Z)	X:15.9 Y:303.8 Z:-170			X:56 Y:279.7 Z:-171.8				
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66/70	Max,SAR	NA				NA			
		Axis(X,Y,Z)	X:-5.1 Y:299.1 Z:166				X:58.2 Y:261.3 Z:-170.5			
1900MHz	GSM1900; WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	NA				NA			
		Axis(X,Y,Z)	X:-4.9 Y:299 Z:-166.1				X:55.9 Y:262.7 Z:-171			
2300MHz	LTE,Band,30 FR1,n30	Max,SAR	NA				NA			
		Axis(X,Y,Z)	X:-3.7 Y:303.9 Z:-166.6				X:60.5 Y:299.6 Z:-170.6			
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA			NA	NA			
		Axis(X,Y,Z)	X:-5.1 Y:293.5 Z:-165			X:54.6 Y:257.8 Z:-170.6	X:56.8 Y:301.9 Z:-171.2			
3500/3700/3900MHz	LTE,Band,42/48 FR1,n48/77/78	Max,SAR		NA	NA			NA		
		Axis(X,Y,Z)		X:27.4 Y:330.8 Z:-170.4	X:26.3 Y:331.4 Z:-170.3			X:14.7 Y:326.9 Z:-169.8		
2450MHz	2.4GWLAN	Max,SAR							NA	



FCC SAR Test Report

Report No. : FA612609

2450MHz	Bluetooth	Axis(X,Y,Z)							X:53.1 Y:326.5 Z:-169.5	
		Max,SAR								
		Axis(X,Y,Z)								
5250/5600/ 5800/6500 MHz	5/6GWLAN	Max,SAR								NA
		Axis(X,Y,Z)							X:49.6 Y:328.6 Z:-169.8	

<Hotspot>

Front											
Freq.	Support,Band		Ant 1	Ant 5	Ant 7	Ant 9	Ant 0	Ant 2	Ant 4	Ant3/Ant 3+6	Ant 4+6
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR	NA				NA				
		Axis(X,Y,Z)	X:-40 Y:63.3 Z:-203				X:-70 Y:-59.3 Z:-203				
835MHz	GSM850; WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR	NA				NA				
		Axis(X,Y,Z)	X:-40 Y:62.5 Z:-203				X:-70 Y:-56 Z:-203				
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66/70	Max,SAR	NA			NA		NA			
		Axis(X,Y,Z)	X:-40 Y:83.2 Z:-203			X:-70 Y:49.3 Z:-203		X:-10 Y:-77.7 Z:-203			
1900MHz	GSM1900; WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	NA			NA		NA			
		Axis(X,Y,Z)	X:-40 Y:81.6 Z:-203			X:-70 Y:44.3 Z:-203		X:-10 Y:-76.4 Z:-203			
2300MHz	LTE,Band,30 FR1,n30	Max,SAR	NA			NA		NA			
		Axis(X,Y,Z)	X:-45 Y:83.4 Z:-203			X:-65 Y:48.7 Z:-203		X:-5 Y:-74 Z:-203			
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA			NA	NA	NA			
		Axis(X,Y,Z)	X:-45 Y:85.8 Z:-203			X:-65 Y:49.1 Z:-203	X:-45 Y:-61.8 Z:-203	X:-5 Y:-73.1 Z:-203			
3500/3700/ 3900MHz	LTE,Band,42/48 FR1,n48/77/78	Max,SAR		NA	NA				NA		
		Axis(X,Y,Z)		X:5 Y:64 Z:-203	X:-65 Y:63.5 Z:-203				X:-5 Y:81 Z:-203		
2450MHz	2.4GWLAN	Max,SAR								NA	
		Axis(X,Y,Z)								X:15 Y:42.6 Z:-203	
2450MHz	Bluetooth	Max,SAR									
		Axis(X,Y,Z)									
5250/5600/ 5800/6500 MHz	5/6GWLAN	Max,SAR									NA
		Axis(X,Y,Z)									X:-35 Y:79 Z:-203

Back												
Freq.	Support,Band		Ant 1	Ant 5	Ant 7	Ant 9	Ant 10	Ant 0	Ant 2	Ant 4	Ant3/Ant 3+6	Ant 4+6
750MHz	LTE,Band,12/13/14/ 17/71 FR1,n12/13/14/71	Max,SAR	NA					NA				
		Axis(X,Y,Z)	X:-10 Y:73.8 Z:-203					X:5 Y:-65.5 Z:-203				
835MHz	GSM850; WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR	NA					NA				
		Axis(X,Y,Z)	X:-10 Y:72.6 Z:-203					X:10 Y:-67.8 Z:-203				
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66/70	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-10 Y:81.9 Z:-203			X:5 Y:53.3 Z:-203			X:-40 Y:-75.3 Z:-203			
1900MHz	GSM1900; WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-10 Y:82.8 Z:-203			X:5 Y:52.6 Z:-203			X:-40 Y:-74.6 Z:-203			
2300MHz	LTE,Band,30 FR1,n30	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-15 Y:80.8 Z:-203			X:5 Y:50.2 Z:-203			X:-45 Y:-67.8 Z:-203			
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA			NA		NA	NA			
		Axis(X,Y,Z)	X:-5 Y:82.6 Z:-203			X:5 Y:49.9 Z:-203		X:5 Y:-66.9 Z:-203	X:-45 Y:-72.6 Z:-203			
3500/3700/ 3900MHz	LTE,Band,42/48 FR1,n48/77/78	Max,SAR		NA	NA		NA			NA		
		Axis(X,Y,Z)		X:-65 Y:63 Z:-203	X:5 Y:68.5 Z:-203		X:-25 Y:36.1 Z:-203			X:-45 Y:81.6 Z:-203		
2450MHz	2.4GWLAN	Max,SAR									NA	
		Axis(X,Y,Z)									X:-45 Y:43.8 Z:-203	



2450MHz	Bluetooth	Max,SAR										
		Axis(X,Y,Z)										
5250/5600/5800/6500 MHz	5/6GWLAN	Max,SAR									NA	
		Axis(X,Y,Z)									X:-65 Y:49.4 Z:-203	

Left Side						
Freq.	Support,Band		Ant 7	Ant 9	Ant 0	
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR			NA	
		Axis(X,Y,Z)			X:-33 Y:-45.2 Z:-203	
835MHz	GSM850; WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR			NA	
		Axis(X,Y,Z)			X:-33 Y:-47.9 Z:-203	
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66/70	Max,SAR		NA		
		Axis(X,Y,Z)		X:-33 Y:40.3 Z:-203		
1900MHz	GSM1900; WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR		NA		
		Axis(X,Y,Z)		X:-33 Y:43.6 Z:-203		
2300MHz	LTE,Band,30 FR1,n30	Max,SAR		NA		
		Axis(X,Y,Z)		X:-33 Y:43.3 Z:-203		
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR		NA	NA	
		Axis(X,Y,Z)		X:-33 Y:40.3 Z:-203	X:-33 Y:-59.9 Z:-203	
3500/3700/3900MHz	LTE,Band,42/48 FR1,n48/77/78	Max,SAR	NA			
		Axis(X,Y,Z)	X:-33 Y:55.9 Z:-203			
2450MHz	2.4GWLAN	Max,SAR				
		Axis(X,Y,Z)				
2450MHz	Bluetooth	Max,SAR				
		Axis(X,Y,Z)				
5250/5600/5800/6500 MHz	5/6GWLAN	Max,SAR				
		Axis(X,Y,Z)				

Right Side						
Freq.	Support,Band		Ant 5	Ant 2	Ant3/Ant 3+6	Ant 4+6
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR				
		Axis(X,Y,Z)				
835MHz	GSM850; WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR				
		Axis(X,Y,Z)				
1750MHz	WCDMA,V LTE,Band,4/66 FR1,n66/70	Max,SAR		NA		
		Axis(X,Y,Z)		X:-33 Y:66.1 Z:-203		
1900MHz	GSM1900; WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR		NA		
		Axis(X,Y,Z)		X:-33 Y:64.6 Z:-203		
2300MHz	LTE,Band,30 FR1,n30	Max,SAR		NA		
		Axis(X,Y,Z)		X:-33 Y:62.4 Z:-203		
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR		NA		
		Axis(X,Y,Z)		X:-33 Y:61.6 Z:-203		
3500/3700/3900MHz	LTE,Band,42/48 FR1,n48/77/78	Max,SAR	NA			
		Axis(X,Y,Z)	X:-33 Y:-44.2 Z:-203			
2450MHz	2.4GWLAN	Max,SAR			NA	
		Axis(X,Y,Z)			X:-25 Y:-48 Z:-203	
2450MHz	Bluetooth	Max,SAR				
		Axis(X,Y,Z)				
5250/5600/5800/6500 MHz	5/6GWLAN	Max,SAR				NA
		Axis(X,Y,Z)				X:-25 Y:-59 Z:-203



<Body-worn>

Front												
Freq.	Support,Band		Ant 1	Ant 5	Ant 7	Ant 9	Ant 10	Ant 0	Ant 2	Ant 4	Ant3/Ant 3+6	Ant 4+6
750MHz	LTE,Band, 12/13 /14/17/71 FR1,n12/13 /14/71	Max,SAR	NA					NA				
		Axis(X,Y,Z)	X:-40 Y:63.3 Z:-203					X:-70 Y:-59.3 Z:-203				
835MHz	GSM850; WCDMA,V LTE,Band, 5/26 FR1,n5/26	Max,SAR	NA					NA				
		Axis(X,Y,Z)	X:-40 Y:62.5 Z:-203					X:-70 Y:-56 Z:-203				
1750MHz	WCDMA,IV LTE,Band, 4/66 FR1,n66/70	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-40 Y:83.2 Z:-203			X:-70 Y:49.3 Z:-203			X:-10 Y:-77.7 Z:-203			
1900MHz	GSM1900; WCDMA,II LTE,Band, 2/25 FR1,n2/25	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-40 Y:81.6 Z:-203			X:-70 Y:44.3 Z:-203			X:-10 Y:-76.4 Z:-203			
2300MHz	LTE,Band,30 FR1,n30	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-45 Y:83.4 Z:-203			X:-65 Y:48.7 Z:-203			X:-5 Y:-74 Z:-203			
2600MHz	LTE,Band, 7/38/41 FR1,n7/38/41	Max,SAR	NA			NA		NA	NA			
		Axis(X,Y,Z)	X:-45 Y:85.8 Z:-203			X:-65 Y:49.1 Z:-203		X:-45 Y:-61.8 Z:-203	X:-5 Y:-73.1 Z:-203			
3500/3700/ 3900MHz	LTE,Band, 42/48 FR1,n48/ 77/78	Max,SAR		NA	NA		NA			NA		
		Axis(X,Y,Z)		X:5 Y:64 Z:-203	X:-65 Y:63.5 Z:-203		X:5 Y:18.4 Z:-203			X:-5 Y:81 Z:-203		
2450MHz	2.4GWLAN	Max,SAR									NA	
		Axis(X,Y,Z)									X:15 Y:45.6 Z:-203	
2450MHz	Bluetooth	Max,SAR										
		Axis(X,Y,Z)										
5250/5600 /5800 /6500 MHz	5/6GWLAN	Max,SAR										NA
		Axis(X,Y,Z)										X:-35 Y:79 Z:-203

Back												
Freq.	Support,Band		Ant 1	Ant 5	Ant 7	Ant 9	Ant 10	Ant 0	Ant 2	Ant 4	Ant3/Ant 3+6	Ant 4+6
750MHz	LTE,Band, 12/13/14/17/71 FR1, n12/13/14/71	Max,SAR	NA					NA				
		Axis(X,Y,Z)	X:-10 Y:73.8 Z:-203					X:5 Y:-65.5 Z:-203				
835MHz	GSM850; WCDMA,V LTE,Band, 5/26 FR1,n5/26	Max,SAR	NA					NA				
		Axis(X,Y,Z)	X:-10 Y:72.6 Z:-203					X:10 Y:-67.8 Z:-203				
1750MHz	WCDMA,IV LTE,Band, 4/66 FR1,n66/70	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-10 Y:81.9 Z:-203			X:5 Y:53.3 Z:-203			X:-40 Y:-75.3 Z:-203			
1900MHz	GSM1900; WCDMA,II LTE,Band, 2/25 FR1,n2/25	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-10 Y:82.8 Z:-203			X:5 Y:52.6 Z:-203			X:-40 Y:-74.6 Z:-203			
2300MHz	LTE,Band, 30 FR1,n30	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-15 Y:80.8 Z:-203			X:5 Y:50.2 Z:-203			X:-45 Y:-67.8 Z:-203			
2600MHz	LTE,Band, 7/38/41 FR1,n7/ 38/41	Max,SAR	NA			NA		NA	NA			
		Axis(X,Y,Z)	X:-5 Y:82.6 Z:-203			X:5 Y:49.9 Z:-203		X:5 Y:-66.9 Z:-203	X:-45 Y:-72.6 Z:-203			
3500/3700/ 3900MHz	LTE,Band, 42/48 FR1,n48/ 77/78	Max,SAR		NA	NA		NA			NA		
		Axis(X,Y,Z)		X:-65 Y:63 Z:-203	X:5 Y:68.5 Z:-203		X:-25 Y:36.1 Z:-203			X:-45 Y:81.6 Z:-203		
2450MHz	2.4GWLAN	Max,SAR									NA	
		Axis(X,Y,Z)									X:-45 Y:43.8 Z:-203	
2450MHz	Bluetooth	Max,SAR										
		Axis(X,Y,Z)										
5250/5600/5800 /6500 MHz	5/6GWLAN	Max,SAR										NA
		Axis(X,Y,Z)										X:-65 Y:49.4 Z:-203



<Extremity>

Front											
Freq.	Support,Band		Ant 1	Ant 5	Ant 7	Ant 9	Ant 0	Ant 2	Ant 4	Ant3/Ant 3+6	Ant 4+6
750MHz	LTE,Band, 12/13/14/17/71 FR1,n12/13/14/71	Max,SAR									
		Axis(X,Y,Z)									
835MHz	GSM850; WCDMA,V LTE,Band, 5/26 FR1,n5/26	Max,SAR									
		Axis(X,Y,Z)									
1750MHz	WCDMA,IV LTE,Band, 4/66 FR1,n66/70	Max,SAR	NA			NA		NA			
		Axis(X,Y,Z)	X:-40 Y:80.5 Z:-203			X:-68 Y:48.6 Z:-203		X:-8.3 Y:-77.7 Z:-203			
1900MHz	GSM1900; WCDMA,II LTE,Band, 2/25 FR1,n2/25	Max,SAR	NA			NA		NA			
		Axis(X,Y,Z)	X:-40 Y:80.4 Z:-203			X:-68.3 Y:42.7 Z:-203		X:-8.9 Y:-77.4 Z:-203			
2300MHz	LTE,Band,30 FR1,n30	Max,SAR	NA			NA		NA			
		Axis(X,Y,Z)	X:-45 Y:81.3 Z:-203			X:-63.3 Y:47.7 Z:-203		X:-5 Y:-75.6 Z:-203			
2600MHz	LTE,Band, 7/38/41 FR1,n7/38/41	Max,SAR	NA			NA	NA	NA			
		Axis(X,Y,Z)	X:-45 Y:82.3 Z:-203			X:-64.1 Y:48.2 Z:-203	X:-47 Y:-62.7 Z:-203	X:-5 Y:-74.7 Z:-203			
3500/3700/ 3900MHz	LTE,Band, 42/48 FR1,n48/77/78	Max,SAR		NA	NA				NA		
		Axis(X,Y,Z)		X:5 Y:65.6 Z:-203	X:-62.3 Y:64.8 Z:-203				X:-5 Y:82.7 Z:-203		
2450MHz	2.4GWLAN	Max,SAR								NA	
		Axis(X,Y,Z)								X:14.2 Y:49.3 Z:-203	
2450MHz	Bluetooth	Max,SAR									
		Axis(X,Y,Z)									
5250/5600/5800 /6500 MHz	5/6GWLAN	Max,SAR									NA
		Axis(X,Y,Z)									X:-33.5 Y:78.4 Z:-203

Back												
Freq.	Support,Band		Ant 1	Ant 5	Ant 7	Ant 9	Ant 10	Ant 0	Ant 2	Ant 4	Ant3/Ant 3+6	Ant 4+6
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR	NA					NA				
		Axis(X,Y,Z)	X:-10 Y:72.6 Z:-203					X:5 Y:-61.7 Z:-203				
835MHz	GSM850; WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR	NA					NA				
		Axis(X,Y,Z)	X:-10 Y:70.8 Z:-203					X:5 Y:-61 Z:-203				
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66/70	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-10 Y:80.1 Z:-203			X:5 Y:56.6 Z:-203			X:-40 Y:-72.6 Z:-203			
1900MHz	GSM1900; WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-10 Y:86.7 Z:-203			X:5 Y:49.4 Z:-203			X:-40 Y:-69.2 Z:-203			
2300MHz	LTE,Band,30 FR1,n30	Max,SAR	NA			NA			NA			
		Axis(X,Y,Z)	X:-15 Y:81.4 Z:-203			X:5 Y:47.8 Z:-203			X:-45 Y:-66 Z:-203			
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA			NA		NA	NA			
		Axis(X,Y,Z)	X:-15 Y:82.3 Z:-203			X:5 Y:48.4 Z:-203		X:5 Y:-65.6 Z:-203	X:-45 Y:-64.8 Z:-203			
3500/3700/ 3900MHz	LTE,Band,42/48 FR1,n48/77/78	Max,SAR			NA		NA					
		Axis(X,Y,Z)			X:5 Y:73 Z:-203		X:-35 Y:46.6 Z:-203					
2450MHz	2.4GWLAN	Max,SAR									NA	
		Axis(X,Y,Z)									X:-45 Y:43.5 Z:-203	
2450MHz	Bluetooth	Max,SAR										
		Axis(X,Y,Z)										
5250/5600 /5800/6500 MHz	5/6GWLAN	Max,SAR										NA
		Axis(X,Y,Z)										X:-65 Y:52.6 Z:-203
NFC		Max,SAR	NA									
		Axis(X,Y,Z)	X:-6.5 Y:24 Z:-205									

Left Side				
Freq.	Support,Band		Ant 9	Ant 0
750MHz	LTE,Band,12/13/14/17/71 FR1,n12/13/14/71	Max,SAR		NA
		Axis(X,Y,Z)		X:-32 Y:-46.3 Z:-203
835MHz	GSM850; WCDMA,V LTE,Band,5/26 FR1,n5/26	Max,SAR		NA
		Axis(X,Y,Z)		X:-32 Y:-46.9 Z:-203
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66/70	Max,SAR	NA	
		Axis(X,Y,Z)	X:-32 Y:41.3 Z:-203	
1900MHz	GSM1900; WCDMA,II LTE,Band,2/25 FR1,n2/25	Max,SAR	NA	
		Axis(X,Y,Z)	X:-32 Y:42.9 Z:-203	
2300MHz	LTE,Band,30 FR1,n30	Max,SAR	NA	
		Axis(X,Y,Z)	X:-32 Y:44.1 Z:-203	
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA	NA
		Axis(X,Y,Z)	X:-32 Y:41.5 Z:-203	X:-32 Y:-57.7 Z:-203
3500/3700/3900MHz	LTE,Band,42/48 FR1,n48/77/78	Max,SAR		
		Axis(X,Y,Z)		
2450MHz	2.4GWLAN	Max,SAR		
		Axis(X,Y,Z)		
2450MHz	Bluetooth	Max,SAR		
		Axis(X,Y,Z)		
5250/5600/5800/6500 MHz	5/6GWLAN	Max,SAR		
		Axis(X,Y,Z)		

17.8 Volume Scan Test procedure and SAR Results

General Note:

1. When simultaneous transmission SAR measurements are required in different frequency bands not covered by a single probe calibration point then separate tests for each frequency band are performed. The tests are performed using enlarged zoom scans which are processed, by means of superposition, using the DASY6 volume scan postprocessing procedures to determine the 1-g SAR for the aggregate SAR distribution.
2. The following test procedure is based on KDB 865664 D01:
 - a) Other than a larger measurement volume to enclose all antennas and radiating structures of the test device, the measurement requirements of an enlarged zoom scan are the same as those required by a normal zoom scan.
 - b) All simultaneous transmitting antennas and radiating structures must be included in the enlarged zoom scan measurement region projected onto the phantom.
 - c) Grid setting is used finer resolution in all different frequency bands.
 - d) Scan range is capturing enough wide for both SAR distribution.
 - e) Perform enlarged zoom scan (Volume scan) on the co-located antenna pair to determine 1g/10g aggregate SAR.
 - f) The SPLSR hotspot combination procedure (Hybrid SPLSR) allows for the aggregate SAR distribution of a collocated antenna pair—either obtained from a small enlarged zoom scan or through the algebraic summation of SAR values. This approach may also be considered for simultaneous transmission analysis.
3. To extract and process measurements within different frequency bands, the SEMCAD X Post-processor performs the combination and subsequent superposition of these measurement data via DASY6= Combined Multi-TX zoom scan SAR.
4. During multi-TX SAR combination, the SAR scaling factors were input into the SEMCAD X software to account for tune-up tolerance.
5. The detailed small enlarged zoom scan SAR Result Plot is in the appendix B.



Case NO	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Duty Cycle %	Duty Cycle Scaling Factor	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Multi-Band Combined 1g SAR (W/kg)
Case 1	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	26965	841.5		1.000	0.585	0.881	1.277	0.988
	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Right Cheek	0mm	Ant 3+6	Simultaneous	11	2462	100.00	1.000	0.115	0.164		
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Simultaneous	58	5290	100.00	1.000	0.161	0.232		
Case 2	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	26965	841.5		1.000	0.585	0.881	1.183	0.967
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Simultaneous	58	5290	100.00	1.000	0.161	0.232		
	Bluetooth	-	-	-	-	DH5 1Mbps	Right Cheek	0mm	Ant 3	Full	39	2441	76.80	1.085	0.051	0.070		
Case 3	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECI2	641666	3624.99		1.000	0.571	0.820	1.216	0.923
	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Right Cheek	0mm	Ant 3+6	Simultaneous	11	2462	100.00	1.000	0.115	0.164		
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Simultaneous	58	5290	100.00	1.000	0.161	0.232		
Case 4	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECI2	641666	3624.99		1.000	0.571	0.820	1.122	0.934
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Simultaneous	58	5290	100.00	1.000	0.161	0.232		
	Bluetooth	-	-	-	-	DH5 1Mbps	Right Cheek	0mm	Ant 3	Full	39	2441	76.80	1.085	0.051	0.070		
Case 5	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	ECI2	518598	2592.99		1.000	0.630	0.878	1.274	0.911
	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Right Cheek	0mm	Ant 3+6	Simultaneous	11	2462	100.00	1.000	0.115	0.164		
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Simultaneous	58	5290	100.00	1.000	0.161	0.232		
Case 6	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	ECI2	518598	2592.99		1.000	0.630	0.878	1.180	0.917
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Simultaneous	58	5290	100.00	1.000	0.161	0.232		
	Bluetooth	-	-	-	-	DH5 1Mbps	Right Cheek	0mm	Ant 3	Full	39	2441	76.80	1.085	0.051	0.070		
Case 7	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	26865	831.5		1.000	0.385	0.569	1.264	0.638
	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 3+6	Simultaneous	11	2462	100.00	1.000	0.244	0.349		
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	106	5530	100.00	1.000	0.229	0.346		
Case 8	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	26865	831.5		1.000	0.385	0.569	1.086	0.644
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	106	5530	100.00	1.000	0.229	0.346		
	Bluetooth	-	-	-	-	DH5 1Mbps	Left Cheek	0mm	Ant 3	Full	39	2441	76.80	1.085	0.125	0.171		
Case 9&13	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	ECI2	656000	3840		1.000	0.452	0.673	1.368	0.755
	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 3+6	Simultaneous	11	2462	100.00	1.000	0.244	0.349		
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	106	5530	100.00	1.000	0.229	0.346		
Case 10&14	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	ECI2	656000	3840		1.000	0.452	0.673	1.190	0.763
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	106	5530	100.00	1.000	0.229	0.346		
	Bluetooth	-	-	-	-	DH5 1Mbps	Left Cheek	0mm	Ant 3	Full	39	2441	76.80	1.085	0.125	0.171		
Case 11&15	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI2	56640	3690	62.90	1.006	0.566	0.844	1.539	0.947
	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 3+6	Simultaneous	11	2462	100.00	1.000	0.244	0.349		
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	106	5530	100.00	1.000	0.229	0.346		
Case 12&16	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI2	56640	3690	62.90	1.006	0.566	0.844	1.361	0.924
	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	106	5530	100.00	1.000	0.229	0.346		
	Bluetooth	-	-	-	-	DH5 1Mbps	Left Cheek	0mm	Ant 3	Full	39	2441	76.80	1.085	0.125	0.171		

Test Engineer : Kevin Xu, David Dai, Bin He, Bran Yin, Seth Jin

18. 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

19. References

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

-----THE END-----