

BUREAU
VERITAS

FCC SAR Test Report



Certificate #6613.01

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
	LTE B66	QPSK20M	Right Side	0.5	132322	50	50	Ant 3	DSI 4	-	24.50	23.85	0.04	1.470	1.000	1.161	1.71
	LTE B66	QPSK20M	Left Side	0	132322	1	50	Ant 4	DSI 3/4	-	21.50	20.60	0.01	1.620	1.000	1.230	1.99
	LTE B66	QPSK20M	Left Side	0	132322	50	25	Ant 4	DSI 3/4	-	21.50	20.58	0.12	1.820	1.000	1.236	2.25
	LTE B66	QPSK20M	Left Side	0	132072	50	25	Ant 4	DSI 3/4	-	21.50	20.53	-0.17	1.810	1.000	1.250	2.26
P100	LTE B66	QPSK20M	Left Side	0	132572	50	25	Ant 4	DSI 3/4	-	21.50	20.44	0.01	2.020	1.000	1.276	2.58
	LTE B66	QPSK20M	Left Side	0	132322	100	0	Ant 4	DSI 3/4	-	21.50	20.41	-0.18	1.800	1.000	1.285	2.31
	FR1 n2	DFT-QPSK40M	Rear Face	0	376000	1	1	Ant 2	DSI 3	-	22.00	20.49	0.18	0.902	1.000	1.416	1.28
	FR1 n2	DFT-QPSK40M	Top Side	0	376000	1	1	Ant 2	DSI 3	-	22.00	20.49	0.11	0.659	1.000	1.416	0.93
	FR1 n2	DFT-QPSK40M	Rear Face	0	376000	108	54	Ant 2	DSI 3	-	22.00	20.46	0.06	0.915	1.000	1.426	1.30
	FR1 n2	DFT-QPSK40M	Top Side	0	376000	108	54	Ant 2	DSI 3	-	22.00	20.46	-0.04	0.692	1.000	1.426	0.99
	FR1 n2	DFT-QPSK40M	Rear Face	0.5	376000	1	1	Ant 2	DSI 4	-	25.50	23.88	0.09	1.180	1.000	1.452	1.71
	FR1 n2	DFT-QPSK40M	Top Side	0.5	376000	1	1	Ant 2	DSI 4	-	25.50	23.88	-0.14	1.210	1.000	1.452	1.76
	FR1 n2	DFT-QPSK40M	Rear Face	0.5	376000	108	54	Ant 2	DSI 4	-	25.50	23.83	-0.05	1.210	1.000	1.469	1.78
	FR1 n2	DFT-QPSK40M	Top Side	0.5	376000	108	54	Ant 2	DSI 4	-	25.50	23.83	0.03	1.220	1.000	1.469	1.79
P101	FR1 n2	DFT-QPSK40M	Front Face	0	376000	1	1	Ant 3	DSI 3	-	22.50	21.55	0.01	1.450	1.000	1.245	1.81
	FR1 n2	DFT-QPSK40M	Rear Face	0	376000	1	1	Ant 3	DSI 3	-	22.50	21.55	-0.15	1.096	1.000	1.245	1.36
	FR1 n2	DFT-QPSK40M	Right Side	0	376000	1	1	Ant 3	DSI 3	-	22.50	21.55	-0.12	1.072	1.000	1.245	1.33
	FR1 n2	DFT-QPSK40M	Front Face	0	376000	108	54	Ant 3	DSI 3	-	22.50	21.54	-0.01	1.420	1.000	1.247	1.77
	FR1 n2	DFT-QPSK40M	Rear Face	0	376000	108	54	Ant 3	DSI 3	-	22.50	21.54	-0.16	1.014	1.000	1.247	1.27
	FR1 n2	DFT-QPSK40M	Right Side	0	376000	108	54	Ant 3	DSI 3	-	22.50	21.54	-0.13	1.023	1.000	1.247	1.28
	FR1 n2	DFT-QPSK40M	Front Face	0.5	376000	1	1	Ant 3	DSI 4	-	25.50	24.54	-0.05	1.140	1.000	1.247	1.42
	FR1 n2	DFT-QPSK40M	Rear Face	0.5	376000	1	1	Ant 3	DSI 4	-	25.50	24.54	0.19	1.230	1.000	1.247	1.53
	FR1 n2	DFT-QPSK40M	Right Side	0.5	376000	1	1	Ant 3	DSI 4	-	25.50	24.54	-0.03	1.090	1.000	1.247	1.36
	FR1 n2	DFT-QPSK40M	Front Face	0.5	376000	108	54	Ant 3	DSI 4	-	25.50	24.46	0.03	1.000	1.000	1.271	1.27
	FR1 n2	DFT-QPSK40M	Rear Face	0.5	376000	108	54	Ant 3	DSI 4	-	25.50	24.46	0.03	1.130	1.000	1.271	1.44
	FR1 n2	DFT-QPSK40M	Right Side	0.5	376000	108	54	Ant 3	DSI 4	-	25.50	24.46	-0.17	0.949	1.000	1.271	1.21
P102	FR1 n5	DFT-QPSK25M	Front Face	0	167300	1	1	Ant 1	DSI 3/4	-	21.50	20.65	0.12	1.228	1.000	1.216	1.49
	FR1 n5	DFT-QPSK25M	Rear Face	0	167300	1	1	Ant 1	DSI 3/4	-	21.50	20.65	0.02	1.740	1.000	1.216	2.12
	FR1 n5	DFT-QPSK25M	Left Side	0	167300	1	1	Ant 1	DSI 3/4	-	21.50	20.65	0.16	0.947	1.000	1.216	1.15
	FR1 n5	DFT-QPSK25M	Front Face	0	167300	64	35	Ant 1	DSI 3/4	-	21.50	20.55	0.10	1.132	1.000	1.245	1.41
	FR1 n5	DFT-QPSK25M	Rear Face	0	167300	64	35	Ant 1	DSI 3/4	-	21.50	20.55	0.01	1.167	1.000	1.245	1.45
	FR1 n5	DFT-QPSK25M	Left Side	0	167300	64	35	Ant 1	DSI 3/4	-	21.50	20.55	0.08	0.933	1.000	1.245	1.16
	FR1 n5	DFT-QPSK25M	Rear Face	0	167300	128	0	Ant 1	DSI 3/4	-	21.50	20.38	-0.03	1.520	1.000	1.294	1.97
	FR1 n7	DFT-QPSK50M	Bottom Side	0	507000	1	1	Ant 0	DSI 3/4	-	22.00	20.43	0.08	1.130	1.000	1.435	1.62
	FR1 n7	DFT-QPSK50M	Bottom Side	0	507000	135	68	Ant 0	DSI 3/4	-	22.00	20.35	0.06	1.020	1.000	1.462	1.49
	FR1 n7(Other Pa)	DFT-QPSK50M	Bottom Side	0	507000	1	1	Ant 0	DSI 3/4	-	22.00	20.50	-0.10	1.030	1.000	1.413	1.46
	FR1 n7	DFT-QPSK50M	Front Face	0	505000	1	1	Ant 2	DSI 3	-	19.00	18.69	0.10	1.119	1.000	1.074	1.20
	FR1 n7	DFT-QPSK50M	Rear Face	0	505000	1	1	Ant 2	DSI 3	-	19.00	18.69	0.03	1.319	1.000	1.074	1.42
	FR1 n7	DFT-QPSK50M	Top Side	0	505000	1	1	Ant 2	DSI 3	-	19.00	18.69	-0.06	1.549	1.000	1.074	1.66
	FR1 n7	DFT-QPSK50M	Front Face	0	505000	135	68	Ant 2	DSI 3	-	19.00	18.54	-0.03	1.067	1.000	1.112	1.19
	FR1 n7	DFT-QPSK50M	Rear Face	0	505000	135	68	Ant 2	DSI 3	-	19.00	18.54	0.00	1.206	1.000	1.112	1.34
	FR1 n7	DFT-QPSK50M	Top Side	0	505000	135	68	Ant 2	DSI 3	-	19.00	18.54	-0.03	1.610	1.000	1.112	1.79
	FR1 n7	DFT-QPSK50M	Front Face	0.5	505000	1	1	Ant 2	DSI 4	-	23.50	23.07	0.13	1.020	1.000	1.104	1.13
	FR1 n7	DFT-QPSK50M	Rear Face	0.5	505000	1	1	Ant 2	DSI 4	-	23.50	23.07	0.18	1.450	1.000	1.104	1.60
	FR1 n7	DFT-QPSK50M	Top Side	0.5	505000	1	1	Ant 2	DSI 4	-	23.50	23.07	0.10	2.010	1.000	1.104	2.22
P103	FR1 n7	DFT-QPSK50M	Front Face	0.5	505000	135	68	Ant 2	DSI 4	-	23.50	23.04	-0.16	0.954	1.000	1.112	1.06
	FR1 n7	DFT-QPSK50M	Rear Face	0.5	505000	135	68	Ant 2	DSI 4	-	23.50	23.04	0.04	1.410	1.000	1.112	1.57
	FR1 n7	DFT-QPSK50M	Top Side	0.5	505000	135	68	Ant 2	DSI 4	-	23.50	23.04	-0.08	2.180	1.000	1.112	2.42
	FR1 n7	DFT-QPSK50M	Top Side	0.5	507000	1	1	Ant 2	DSI 4	-	23.50	23.03	0.17	1.960	1.000	1.114	2.18
	FR1 n7	DFT-QPSK50M	Top Side	0.5	509000	1	1	Ant 2	DSI 4	-	23.50	22.96	0.16	1.990	1.000	1.132	2.25
	FR1 n7	DFT-QPSK50M	Top Side	0.5	507000	135	68	Ant 2	DSI 4	-	23.50	22.92	0.02	2.070	1.000	1.143	2.37
	FR1 n7	DFT-QPSK50M	Top Side	0.5	509000	135	68	Ant 2	DSI 4	-	23.50	22.95	0.01	2.030	1.000	1.135	2.30
	FR1 n7(Other Pa)	DFT-QPSK50M	Top Side	0.5	505000	135	68	Ant 2	DSI 4	-	23.50	22.93	-0.19	2.090	1.000	1.140	2.38
	FR1 n7	DFT-QPSK50M	Right Side	0	507000	1	1	Ant 3	DSI 3	-	21.50	20.82	-0.05	1.270	1.000	1.169	1.49
	FR1 n7	DFT-QPSK50M	Right Side	0	507000	135	68	Ant 3	DSI 3	-	21.50	20.72	0.19	1.660	1.000	1.197	1.99
	FR1 n7	DFT-QPSK50M	Right Side	0.5	507000	1	1	Ant 3	DSI 4	-	26.00	25.36	0.18	1.200	1.000	1.159	1.39
	FR1 n7	DFT-QPSK50M	Right Side	0.5	507000	135	68	Ant 3	DSI 4	-	26.00	25.30	-0.11	1.300	1.000	1.175	1.53
	FR1 n7(Other Pa)	DFT-QPSK50M	Right Side	0	507000	135	68	Ant 3	DSI 3	-	21.50	20.57	0.02	1.570	1.000	1.239	1.95
	FR1 n7	DFT-QPSK50M	Front Face	0	507000	1	1	Ant 4	DSI 3/4	-	19.50	18.15	-0.12	1.043	1.000	1.365	1.42
	FR1 n7	DFT-QPSK50M	Rear Face	0	507000	1	1	Ant 4	DSI 3/4	-	19.50	18.15	-0.15	1.127	1.000	1.365	1.54
	FR1 n7	DFT-QPSK50M	Left Side	0	507000	1	1	Ant 4	DSI 3/4	-	19.50	18.15	0.13	1.670	1.000	1.365	2.28
	FR1 n7	DFT-QPSK50M	Front Face	0	507000	135	68	Ant 4	DSI 3/4	-	19.50	18.09	-0.15	1.070	1.000	1.384	1.48
	FR1 n7	DFT-QPSK50M	Rear Face	0	507000	135	68	Ant 4	DSI 3/4	-	19.50	18.09	-0.06	1.109	1.000	1.384	1.53
	FR1																



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
P105	FR1 n41 / 38(Other Pa)	DFT-QPSK100M	Top Side	0	509202	135	69	Ant 2	DSI 3	100	21.00	20.53	-0.14	1.380	1.000	1.114	1.54
	FR1 n41	DFT-QPSK100M	Right Side	0	518598	1	1	Ant 3	DSI 3	100	21.00	20.39	0.04	1.426	1.000	1.151	1.64
	FR1 n41	DFT-QPSK100M	Right Side	0	518598	135	69	Ant 3	DSI 3	100	21.00	20.38	0.04	1.560	1.000	1.153	1.80
	FR1 n41	DFT-QPSK100M	Right Side	0.5	518598	1	1	Ant 3	DSI 4	100	26.00	25.35	-0.16	1.440	1.000	1.161	1.67
	FR1 n41	DFT-QPSK100M	Right Side	0.5	518598	135	69	Ant 3	DSI 4	100	26.00	25.16	0.00	1.290	1.000	1.213	1.57
	FR1 n41(Other Pa)	DFT-QPSK100M	Right Side	0	518598	135	69	Ant 3	DSI 3	100	21.00	20.53	-0.12	1.510	1.000	1.114	1.68
	FR1 n41	DFT-QPSK100M	Front Face	0	509202	1	1	Ant 4	DSI 3/4	100	18.50	17.72	-0.15	0.854	1.000	1.197	1.02
P106	FR1 n41	DFT-QPSK100M	Rear Face	0	509202	1	1	Ant 4	DSI 3/4	100	18.50	17.72	-0.17	0.965	1.000	1.197	1.16
	FR1 n41	DFT-QPSK100M	Left Side	0	509202	1	1	Ant 4	DSI 3/4	100	18.50	17.72	-0.05	1.156	1.000	1.197	1.38
	FR1 n41	DFT-QPSK100M	Front Face	0	509202	135	69	Ant 4	DSI 3/4	100	18.50	17.64	-0.10	0.881	1.000	1.219	1.07
	FR1 n41	DFT-QPSK100M	Rear Face	0	509202	135	69	Ant 4	DSI 3/4	100	18.50	17.64	-0.09	0.999	1.000	1.219	1.22
	FR1 n41	DFT-QPSK100M	Left Side	0	509202	135	69	Ant 4	DSI 3/4	100	18.50	17.64	-0.13	1.290	1.000	1.219	1.57
	FR1 n41(Other Pa)	DFT-QPSK100M	Left Side	0	509202	135	69	Ant 4	DSI 3/4	100	18.50	17.60	0.19	1.120	1.000	1.230	1.38
	FR1 n48	DFT-QPSK40M	Left Side	0	638000	1	1	Ant 1	DSI 3/4	100	20.50	19.05	-0.14	1.750	1.000	1.396	2.44
	FR1 n48	DFT-QPSK40M	Left Side	0	638000	50	28	Ant 1	DSI 3/4	100	20.50	19.02	0.03	1.820	1.000	1.406	2.56
	FR1 n48	DFT-QPSK40M	Left Side	0	641666	1	1	Ant 1	DSI 3/4	100	20.50	18.95	0.08	1.660	1.000	1.429	2.37
	FR1 n48	DFT-QPSK40M	Left Side	0	645332	1	1	Ant 1	DSI 3/4	100	20.50	18.93	0.12	1.690	1.000	1.435	2.43
	FR1 n48	DFT-QPSK40M	Left Side	0	641666	50	28	Ant 1	DSI 3/4	100	20.50	18.91	0.01	1.750	1.000	1.442	2.52
	FR1 n48	DFT-QPSK40M	Left Side	0	645332	50	28	Ant 1	DSI 3/4	100	20.50	18.90	-0.05	1.620	1.000	1.445	2.34
	FR1 n48	DFT-QPSK40M	Left Side	0	638000	100	0	Ant 1	DSI 3/4	100	20.50	18.98	0.12	1.710	1.000	1.419	2.43
	P107	FR1 n48	DFT-QPSK40M	Top Side	0	638000	1	1	Ant 2	DSI 3	100	22.50	21.31	-0.01	1.830	1.000	1.315
FR1 n48		DFT-QPSK40M	Top Side	0	638000	50	28	Ant 2	DSI 3	100	22.50	21.23	-0.10	1.660	1.000	1.340	2.22
FR1 n48		DFT-QPSK40M	Top Side	0	641666	1	1	Ant 2	DSI 3	100	22.50	20.96	0.15	1.690	1.000	1.426	2.41
FR1 n48		DFT-QPSK40M	Top Side	0	645332	1	1	Ant 2	DSI 3	100	22.50	21.11	0.12	1.520	1.000	1.377	2.09
FR1 n48		DFT-QPSK40M	Top Side	0	641666	50	28	Ant 2	DSI 3	100	22.50	20.94	0.10	1.690	1.000	1.432	2.42
FR1 n48		DFT-QPSK40M	Top Side	0	645332	50	28	Ant 2	DSI 3	100	22.50	21.05	0.15	1.640	1.000	1.396	2.29
FR1 n48		DFT-QPSK40M	Top Side	0	638000	100	0	Ant 2	DSI 3	100	22.50	21.17	-0.06	1.750	1.000	1.358	2.38
FR1 n48		DFT-QPSK40M	Top Side	0.5	638000	1	1	Ant 2	DSI 4	100	24.00	22.81	0.02	1.280	1.000	1.315	1.68
FR1 n48		DFT-QPSK40M	Top Side	0.5	638000	50	28	Ant 2	DSI 4	100	24.00	22.77	0.19	1.190	1.000	1.327	1.58
FR1 n48		DFT-QPSK40M	Right Side	0	638000	1	1	Ant 3	DSI 3	100	20.00	18.95	0.01	1.700	1.000	1.274	2.17
FR1 n48		DFT-QPSK40M	Right Side	0	638000	50	28	Ant 3	DSI 3	100	20.00	18.92	-0.06	1.570	1.000	1.282	2.01
FR1 n48		DFT-QPSK40M	Right Side	0	641666	1	1	Ant 3	DSI 3	100	20.00	18.74	-0.05	1.580	1.000	1.337	2.11
FR1 n48		DFT-QPSK40M	Right Side	0	645332	1	1	Ant 3	DSI 3	100	20.00	18.76	-0.11	1.470	1.000	1.330	1.96
FR1 n48		DFT-QPSK40M	Right Side	0	641666	50	28	Ant 3	DSI 3	100	20.00	18.74	0.03	1.590	1.000	1.337	2.13
FR1 n48		DFT-QPSK40M	Right Side	0	645332	50	28	Ant 3	DSI 3	100	20.00	18.76	0.10	1.530	1.000	1.330	2.04
FR1 n48		DFT-QPSK40M	Right Side	0	638000	100	0	Ant 3	DSI 3	100	20.00	18.90	0.10	1.640	1.000	1.288	2.11
FR1 n48		DFT-QPSK40M	Right Side	0.5	638000	1	1	Ant 3	DSI 4	100	23.50	22.01	-0.08	1.140	1.000	1.409	1.61
FR1 n48		DFT-QPSK40M	Right Side	0.5	638000	50	28	Ant 3	DSI 4	100	23.50	21.92	-0.06	1.020	1.000	1.439	1.47
FR1 n48		DFT-QPSK40M	Rear Face	0	641666	1	1	Ant 7	DSI 3/4	100	18.00	17.63	0.08	1.580	1.000	1.089	1.72
FR1 n48		DFT-QPSK40M	Rear Face	0	641666	50	28	Ant 7	DSI 3/4	100	18.00	17.58	-0.10	1.740	1.000	1.102	1.92
FR1 n66		DFT-QPSK45M	Bottom Side	0	351500	1	1	Ant 0	DSI 3/4	100	22.00	21.25	-0.19	1.640	1.000	1.189	1.95
FR1 n66		DFT-QPSK45M	Bottom Side	0	351500	120	61	Ant 0	DSI 3/4	100	22.00	21.21	0.19	1.590	1.000	1.199	1.91
FR1 n66		DFT-QPSK45M	Rear Face	0	346500	1	1	Ant 2	DSI 3	-	22.50	21.82	-0.09	1.662	1.000	1.169	1.94
FR1 n66		DFT-QPSK45M	Top Side	0	346500	1	1	Ant 2	DSI 3	-	22.50	21.82	-0.14	1.920	1.000	1.169	2.25
FR1 n66		DFT-QPSK45M	Rear Face	0	346500	120	61	Ant 2	DSI 3	-	22.50	21.79	0.13	1.595	1.000	1.178	1.88
FR1 n66		DFT-QPSK45M	Top Side	0	346500	120	61	Ant 2	DSI 3	-	22.50	21.79	0.13	1.826	1.000	1.178	2.15
FR1 n66		DFT-QPSK45M	Top Side	0	349000	1	1	Ant 2	DSI 3	-	22.50	21.73	0.00	1.900	1.000	1.194	2.27
FR1 n66		DFT-QPSK45M	Top Side	0	351500	1	1	Ant 2	DSI 3	-	22.50	21.80	0.08	1.890	1.000	1.175	2.22
FR1 n66	DFT-QPSK45M	Top Side	0	349000	120	61	Ant 2	DSI 3	-	22.50	21.70	-0.07	1.760	1.000	1.202	2.12	
FR1 n66	DFT-QPSK45M	Top Side	0	351500	120	61	Ant 2	DSI 3	-	22.50	21.77	-0.07	1.800	1.000	1.183	2.13	
FR1 n66	DFT-QPSK45M	Top Side	0	346500	240	0	Ant 2	DSI 3	-	22.50	21.75	0.01	1.730	1.000	1.189	2.06	
FR1 n66	DFT-QPSK45M	Rear Face	0.5	346500	1	1	Ant 2	DSI 4	-	25.00	23.79	-0.02	1.290	1.000	1.321	1.70	
FR1 n66	DFT-QPSK45M	Top Side	0.5	346500	1	1	Ant 2	DSI 4	-	25.00	23.79	-0.12	1.790	1.000	1.321	2.37	
FR1 n66	DFT-QPSK45M	Rear Face	0.5	346500	120	61	Ant 2	DSI 4	-	25.00	23.79	-0.14	1.160	1.000	1.321	1.53	
FR1 n66	DFT-QPSK45M	Top Side	0.5	346500	120	61	Ant 2	DSI 4	-	25.00	23.74	0.09	1.480	1.000	1.337	1.98	
FR1 n66	DFT-QPSK45M	Top Side	0.5	349000	1	1	Ant 2	DSI 4	-	25.00	23.74	0.11	1.820	1.000	1.337	2.43	
FR1 n66	DFT-QPSK45M	Top Side	0.5	351500	1	1	Ant 2	DSI 4	-	25.00	23.74	0.00	1.910	1.000	1.337	2.55	
FR1 n66	DFT-QPSK45M	Top Side	0.5	346500	240	0	Ant 2	DSI 4	-	24.50	23.37	0.06	1.440	1.000	1.297	1.87	
P107	FR1 n66	DFT-QPSK45M	Front Face	0	349000	1	1	Ant 3	DSI 3	-	22.00	20.98	0.06	1.780	1.000	1.265	2.25
	FR1 n66	DFT-QPSK45M	Rear Face	0	349000	1	1	Ant 3	DSI 3	-	22.00	20.98	0.01	1.071	1.000	1.265	1.36
	FR1 n66	DFT-QPSK45M	Right Side	0	349000	1	1	Ant 3	DSI 3	-	22.00	20.98	0.08	1.242	1.000	1.265	1.57
	FR1 n66	DFT-QPSK45M	Front Face	0	349000	120	61	Ant 3	DSI 3	-	22.00	20.95	-0.04	1.529	1.000	1.274	1.95
	FR1 n66	DFT-QPSK45M	Rear Face	0	349000	120	61	Ant 3	DSI 3	-	22.00	20.95	-0.09	0.886	1.000	1.274	1.13
	FR1 n66	DFT-QPSK45M	Right Side	0	349000	120	61	Ant 3	DSI 3	-	22.00						



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FCC SAR Test Report



Certificate #6613.01

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
	FR1 n77	DFT-QPSK100M	Left Side	0	656000	1	1	Ant 1	DSI 3/4	100	17.00	15.64	-0.18	0.703	1.000	1.368	0.96
	FR1 n77	DFT-QPSK100M	Left Side	0	656000	135	69	Ant 1	DSI 3/4	100	17.00	15.61	-0.14	0.672	1.000	1.377	0.93
	PC2 FR1 n77	DFT-QPSK100M	Left Side	0	656000	1	1	Ant 1	DSI 3/4	50	19.00	17.75	-0.04	0.545	1.000	1.334	0.73
	FR1 n77	DFT-QPSK100M	Front Face	0	633334	1	1	Ant 2	DSI 3	100	17.00	16.63	0.02	0.485	1.000	1.089	0.53
	FR1 n77	DFT-QPSK100M	Rear Face	0	633334	1	1	Ant 2	DSI 3	100	17.00	16.63	-0.15	0.618	1.000	1.089	0.67
	FR1 n77	DFT-QPSK100M	Top Side	0	633334	1	1	Ant 2	DSI 3	100	17.00	16.63	-0.16	1.180	1.000	1.089	1.29
	FR1 n77	DFT-QPSK100M	Front Face	0	633334	135	69	Ant 2	DSI 3	100	17.00	16.58	0.00	0.497	1.000	1.102	0.55
	FR1 n77	DFT-QPSK100M	Rear Face	0	633334	135	69	Ant 2	DSI 3	100	17.00	16.58	-0.07	0.697	1.000	1.102	0.77
	FR1 n77	DFT-QPSK100M	Top Side	0	633334	135	69	Ant 2	DSI 3	100	17.00	16.58	-0.15	0.921	1.000	1.102	1.02
	FR1 n77	DFT-QPSK100M	Front Face	0.5	633334	1	1	Ant 2	DSI 4	100	22.00	21.55	-0.19	0.569	1.000	1.109	0.63
	FR1 n77	DFT-QPSK100M	Rear Face	0.5	633334	1	1	Ant 2	DSI 4	100	22.00	21.55	0.11	1.040	1.000	1.109	1.15
	FR1 n77	DFT-QPSK100M	Top Side	0.5	633334	1	1	Ant 2	DSI 4	100	22.00	21.55	0.12	1.250	1.000	1.109	1.39
	FR1 n77	DFT-QPSK100M	Front Face	0.5	633334	135	69	Ant 2	DSI 4	100	22.00	21.40	0.19	0.618	1.000	1.148	0.71
	FR1 n77	DFT-QPSK100M	Rear Face	0.5	633334	135	69	Ant 2	DSI 4	100	22.00	21.40	-0.03	1.040	1.000	1.148	1.19
	FR1 n77	DFT-QPSK100M	Top Side	0.5	633334	135	69	Ant 2	DSI 4	100	22.00	21.40	-0.19	1.390	1.000	1.148	1.60
PC2 FR1 n77	DFT-QPSK100M	Top Side	0.5	633334	135	69	Ant 2	DSI 4	50	24.00	23.32	-0.10	1.07	1.000	1.169	1.25	
	FR1 n77	DFT-QPSK100M	Rear Face	0	662000	1	1	Ant 2	DSI 3	100	17.00	16.56	0.11	0.528	1.000	1.107	0.58
	FR1 n77	DFT-QPSK100M	Top Side	0	662000	1	1	Ant 2	DSI 3	100	17.00	16.56	0.05	0.794	1.000	1.107	0.88
	FR1 n77	DFT-QPSK100M	Rear Face	0	662000	135	69	Ant 2	DSI 3	100	17.00	16.52	-0.14	0.480	1.000	1.117	0.54
	FR1 n77	DFT-QPSK100M	Top Side	0	662000	135	69	Ant 2	DSI 3	100	17.00	16.52	-0.12	0.743	1.000	1.117	0.83
	FR1 n77	DFT-QPSK100M	Rear Face	0.5	662000	1	1	Ant 2	DSI 4	100	22.00	21.42	0.03	1.160	1.000	1.143	1.33
	FR1 n77	DFT-QPSK100M	Top Side	0.5	662000	1	1	Ant 2	DSI 4	100	22.00	21.42	0.12	0.926	1.000	1.143	1.06
	FR1 n77	DFT-QPSK100M	Rear Face	0.5	662000	135	69	Ant 2	DSI 4	100	22.00	21.38	0.10	0.797	1.000	1.153	0.92
	FR1 n77	DFT-QPSK100M	Top Side	0.5	662000	135	69	Ant 2	DSI 4	100	22.00	21.38	0.18	1.020	1.000	1.153	1.18
	PC2 FR1 n77	DFT-QPSK100M	Rear Face	0.5	662000	1	1	Ant 2	DSI 4	50	24.00	23.36	-0.18	0.870	1.000	1.159	1.01
		FR1 n77 / 78	DFT-QPSK100M	Front Face	0	633334	1	1	Ant 3	DSI 3	100	20.00	19.21	-0.01	1.105	1.000	1.199
FR1 n77 / 78		DFT-QPSK100M	Rear Face	0	633334	1	1	Ant 3	DSI 3	100	20.00	19.21	-0.14	0.517	1.000	1.199	0.62
FR1 n77 / 78		DFT-QPSK100M	Right Side	0	633334	1	1	Ant 3	DSI 3	100	20.00	19.21	-0.02	1.580	1.000	1.199	1.90
FR1 n77 / 78		DFT-QPSK100M	Front Face	0	633334	135	69	Ant 3	DSI 3	100	20.00	19.18	-0.02	1.061	1.000	1.208	1.28
FR1 n77 / 78		DFT-QPSK100M	Rear Face	0	633334	135	69	Ant 3	DSI 3	100	20.00	19.18	-0.05	0.492	1.000	1.208	0.59
FR1 n77 / 78		DFT-QPSK100M	Right Side	0	633334	135	69	Ant 3	DSI 3	100	20.00	19.18	-0.19	1.554	1.000	1.208	1.88
FR1 n77 / 78		DFT-QPSK100M	Front Face	0.5	633334	1	1	Ant 3	DSI 4	100	23.50	22.83	0.11	0.936	1.000	1.167	1.09
FR1 n77 / 78		DFT-QPSK100M	Rear Face	0.5	633334	1	1	Ant 3	DSI 4	100	23.50	22.83	-0.19	1.230	1.000	1.167	1.44
FR1 n77 / 78		DFT-QPSK100M	Right Side	0.5	633334	1	1	Ant 3	DSI 4	100	23.50	22.83	0.03	1.540	1.000	1.167	1.80
FR1 n77 / 78		DFT-QPSK100M	Front Face	0.5	633334	135	69	Ant 3	DSI 4	100	23.50	22.73	-0.18	0.946	1.000	1.194	1.13
FR1 n77 / 78		DFT-QPSK100M	Rear Face	0.5	633334	135	69	Ant 3	DSI 4	100	23.50	22.73	-0.18	1.120	1.000	1.194	1.34
FR1 n77 / 78		DFT-QPSK100M	Right Side	0.5	633334	135	69	Ant 3	DSI 4	100	23.50	22.73	0.11	1.320	1.000	1.194	1.58
PC2 FR1 n77 / 78	DFT-QPSK100M	Right Side	0	633334	1	1	Ant 3	DSI 3	50	22.00	21.32	0.02	1.470	1.000	1.169	1.72	
	FR1 n77	DFT-QPSK100M	Front Face	0	650000	1	1	Ant 3	DSI 3	100	20.00	19.10	0.02	1.069	1.000	1.230	1.32
	FR1 n77	DFT-QPSK100M	Rear Face	0	650000	1	1	Ant 3	DSI 3	100	20.00	19.10	-0.05	0.688	1.000	1.230	0.85
	FR1 n77	DFT-QPSK100M	Right Side	0	650000	1	1	Ant 3	DSI 3	100	20.00	19.10	0.16	1.300	1.000	1.230	1.60
	FR1 n77	DFT-QPSK100M	Front Face	0	650000	135	69	Ant 3	DSI 3	100	20.00	19.08	-0.17	1.031	1.000	1.236	1.27
	FR1 n77	DFT-QPSK100M	Rear Face	0	650000	135	69	Ant 3	DSI 3	100	20.00	19.08	0.06	0.653	1.000	1.236	0.81
	FR1 n77	DFT-QPSK100M	Right Side	0	650000	135	69	Ant 3	DSI 3	100	20.00	19.08	0.17	1.284	1.000	1.236	1.59
	FR1 n77	DFT-QPSK100M	Front Face	0.5	650000	1	1	Ant 3	DSI 4	100	23.50	22.69	0.00	0.973	1.000	1.205	1.17
	FR1 n77	DFT-QPSK100M	Rear Face	0.5	650000	1	1	Ant 3	DSI 4	100	23.50	22.69	0.14	1.200	1.000	1.205	1.45
	FR1 n77	DFT-QPSK100M	Right Side	0.5	650000	1	1	Ant 3	DSI 4	100	23.50	22.69	0.17	1.390	1.000	1.205	1.68
	FR1 n77	DFT-QPSK100M	Front Face	0.5	650000	135	69	Ant 3	DSI 4	100	23.50	22.63	0.10	0.844	1.000	1.222	1.03
	FR1 n77	DFT-QPSK100M	Rear Face	0.5	650000	135	69	Ant 3	DSI 4	100	23.50	22.63	0.03	0.668	1.000	1.222	0.82
	FR1 n77	DFT-QPSK100M	Right Side	0.5	650000	135	69	Ant 3	DSI 4	100	23.50	22.63	-0.04	1.460	1.000	1.222	1.78
PC2 FR1 n77	DFT-QPSK100M	Right Side	0.5	650000	135	69	Ant 3	DSI 4	50	25.50	24.45	-0.08	1.260	1.000	1.274	1.61	
	FR1 n77 / 78	DFT-QPSK100M	Rear Face	0	633334	1	1	Ant 7	DSI 3/4	100	16.00	14.95	-0.12	1.020	1.000	1.274	1.30
	FR1 n77 / 78	DFT-QPSK100M	Rear Face	0	633334	135	69	Ant 7	DSI 3/4	100	16.00	14.92	0.13	1.110	1.000	1.282	1.42
	PC2 FR1 n77 / 78	DFT-QPSK100M	Rear Face	0	633334	135	69	Ant 7	DSI 3/4	50	18.00	16.67	0.15	0.963	1.000	1.358	1.31
	FR1 n77	DFT-QPSK100M	Rear Face	0	656000	1	1	Ant 7	DSI 3/4	100	16.00	15.00	-0.13	0.878	1.000	1.259	1.11
	FR1 n77	DFT-QPSK100M	Rear Face	0	656000	135	69	Ant 7	DSI 3/4	100	16.00	14.97	-0.07	0.942	1.000	1.268	1.19
	PC2 FR1 n77	DFT-QPSK100M	Rear Face	0	656000	135	69	Ant 7	DSI 3/4	50	18.00	16.77	-0.19	0.715	1.000	1.327	0.95
	FR n78	DFT-QPSK100M	Rear Face	0	633334	1	1	Ant 1	DSI 3/4	100	17.50	16.40	0.11	0.866	1.000	1.288	1.12
	FR n78	DFT-QPSK100M	Left Side	0	633334	1	1	Ant 1	DSI 3/4	100	17.50	16.40	0.02	1.050	1.000	1.288	1.35
	FR n78	DFT-QPSK100M	Rear Face	0	633334	135	69	Ant 1	DSI 3/4	100	17.50	16.37	-0.09	0.807	1.000	1.297	1.05
	FR n78	DFT-QPSK100M	Left Side	0	633334	135	69	Ant 1	DSI 3/4	100	17.50	16.37	0.05	0.963	1.000	1.297	1.25
	PC2 FR1 n78	DFT-QPSK100M	Left Side	0	633334	1	1	Ant 1	DSI 3/4	50	19.50	17.94	-0.15	0.895	1.000	1.432	1.28
		FR1 n78	DFT-QPSK100M	Rear Face	0	633334	1	1	Ant 2</								



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
	WLAN 5G	802.11n HT20	Bottom Side	0	140	-	-	MIMO	DSI 6	99.67	22.00	20.86	0.06	0.026	1.003	1.300	0.03
	WLAN 5G	802.11n HT20	Top Side	0	144	-	-	MIMO	DSI 6	99.67	22.00	20.81	-0.02	1.570	1.003	1.315	2.07
	WLAN 5G	802.11n HT20	Front Face	0cm	140	-	-	MIMO	DSI 7	99.67	19.00	17.89	0.05	0.711	1.003	1.291	0.92
	WLAN 5G	802.11n HT20	Rear Face	0cm	140	-	-	MIMO	DSI 7	99.67	19.00	17.89	-0.12	0.295	1.003	1.291	0.38
	WLAN 5G	802.11n HT20	Left Side	0cm	140	-	-	MIMO	DSI 7	99.67	19.00	17.89	-0.04	0.168	1.003	1.291	0.22
	WLAN 5G	802.11n HT20	Right Side	0cm	140	-	-	MIMO	DSI 7	99.67	19.00	17.89	-0.14	0.916	1.003	1.291	1.19
	WLAN 5G	802.11n HT20	Top Side	0cm	140	-	-	MIMO	DSI 7	99.67	19.00	17.89	0.10	0.915	1.003	1.291	1.19
	WLAN 5G	802.11n HT20	Bottom Side	0cm	140	-	-	MIMO	DSI 7	99.67	19.00	17.89	0.00	0.028	1.003	1.291	0.04
	WLAN 5G	802.11ax HE20	Front Face	0cm	64	-	-	MIMO	DSI 6	99.63	22.00	21.31	0.08	0.944	1.004	1.172	1.11

Note : When the hotspot SAR is adjusted for maximum tune-up tolerance and the result is <1.2W/kg, the extremity SAR is not required.

4.6.6 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20, or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20, and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.



Certificate #6613.01

FCC SAR Test Report

Band	Test Position	Ch.	Ant.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
WCDMA II	Right Cheek	9538	Ant2	0.812	0.785	1.034	N/A	N/A	N/A	N/A
LTE 4	Right Cheek	20300	Ant4	0.798	0.767	1.040	N/A	N/A	N/A	N/A
LTE 5	Left Cheek	20525	Ant1	0.786	0.772	1.018	N/A	N/A	N/A	N/A
FR n7	Right Tilted	509000	Ant2	0.962	0.934	1.030	N/A	N/A	N/A	N/A
FR n41	Right Cheek	509202	Ant4	0.820	0.809	1.014	N/A	N/A	N/A	N/A
FR n48	Right Cheek	645332	Ant1	0.764	0.735	1.039	N/A	N/A	N/A	N/A
FR n66	Right Cheek	351500	Ant2	0.842	0.817	1.031	N/A	N/A	N/A	N/A
FR n77	Right Cheek	633334	Ant7	0.738	0.711	1.038	N/A	N/A	N/A	N/A
WLAN2.4G	Left Cheek	6	MIMO	0.726	0.704	1.031	N/A	N/A	N/A	N/A
WLAN5.3G	Left Tilted	60	MIMO	0.876	0.855	1.025	N/A	N/A	N/A	N/A
WLAN5.5G	Left Cheek	144	MIMO	0.666	0.642	1.037	N/A	N/A	N/A	N/A
WLAN5.8G	Left Tilted	157	MIMO	0.796	0.769	1.035	N/A	N/A	N/A	N/A
WCDMA IV	Rear Face at 1.5cm	1413	Ant2	0.799	0.758	1.054	N/A	N/A	N/A	N/A
FR n66	Bottom Side at 1cm	351500	Ant0	0.817	0.793	1.030	N/A	N/A	N/A	N/A

Band	Test Position	Ch.	Ant.	Original Measured SAR-10g (W/kg)	1st Repeated SAR-10g (W/kg)	L/S Ratio	2nd Repeated SAR-10g (W/kg)	L/S Ratio	3rd Repeated SAR-10g (W/kg)	L/S Ratio
GSM850	Left Side at 0cm	189	Ant1	2.09	2.03	1.030	N/A	N/A	N/A	N/A
WCDMA IV	Top Side at 0cm	1413	Ant2	2.21	2.17	1.018	N/A	N/A	N/A	N/A
LTE 2	Top Side at 0cm	19100	Ant2	1.750	1.690	1.036	N/A	N/A	N/A	N/A
LTE 7	Left Side at 0cm	20850	Ant4	1.78	1.73	1.029	N/A	N/A	N/A	N/A
LTE 42	Rear Face at 0cm	43490	Ant7	1.93	1.89	1.021	N/A	N/A	N/A	N/A
LTE 66	Left Side at 0cm	132572	Ant4	2.02	1.97	1.025	N/A	N/A	N/A	N/A
FR n7	Top Side at 0cm	505000	Ant2	2.18	2.13	1.023	N/A	N/A	N/A	N/A
FR n38	Right Side at 0cm	519000	Ant3	1.82	1.78	1.022	N/A	N/A	N/A	N/A
FR n48	Left Side at 0cm	638000	Ant1	1.82	1.79	1.017	N/A	N/A	N/A	N/A
WLAN5.3G	Top Side at 0cm	64	MIMO	1.83	1.8	1.017	N/A	N/A	N/A	N/A
WLAN5.5G	Top Side at 0cm	140	MIMO	1.63	1.58	1.032	N/A	N/A	N/A	N/A



4.6.7 Simultaneous Multi-band Transmission Evaluation

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Head / Body-worn / Hotspot / Extremity
1	WWAN + WIFI 2.4GHz SISO/MIMO	Yes
2	WWAN + WIFI 5GHz SISO/MIMO	Yes
3	WWAN + BT SISO/MIMO	Yes
4	WWAN + WIFI 5GHz MIMO + BT MIMO	Yes
5	WWAN + WIFI 2.4GHz MIMO + WIFI 5GHz MIMO	Yes

Note: Combination 1/2/3 is covered by combination 4/5, so only the results of combination 4/5 are shown in the simultaneous transmission results.

<SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

Note: The detail sim-tx analysis please refer to Appendix E.

Test Engineer : Renjie Liu, and Zixiao Xia



5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Due Data
System Validation Dipole	SPEAG	D835V2	4d265	Nov. 04, 2024	3 Years
System Validation Dipole	SPEAG	D1750V2	1176	Nov. 06, 2024	3 Years
System Validation Dipole	SPEAG	D1950V3	1229	Nov. 07, 2024	3 Years
System Validation Dipole	SPEAG	D2450V2	1048	Nov. 06, 2024	3 Years
System Validation Dipole	SPEAG	D2550V2	1022	Sep. 22, 2022	3 Years
System Validation Dipole	SPEAG	D3500V2	1111	Nov. 11, 2024	3 Years
System Validation Dipole	SPEAG	D3700V2	1082	Nov. 08, 2024	3 Years
System Validation Dipole	SPEAG	D3900V2	1055	Nov. 07, 2024	3 Years
System Validation Dipole	SPEAG	D5GHzV2	1315	Nov. 05, 2024	3 Years
Data Acquisition Electronics	SPEAG	DAE4	1389	Nov. 11, 2024	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3873	Sep. 29, 2024	1 Year
Radio Communication Analyzer	Rohde&Schwarz	CMW500	169210	Jun. 19, 2024	1 Year
Power Meter	Rohde&Schwarz	NRX	102380	Mar. 28, 2024	1 Year
Power Sensor	Rohde&Schwarz	NRP6A	102942	Mar. 20, 2024	1 Year
Power Sensor	Rohde&Schwarz	NRP6A	102943	Mar. 20, 2024	1 Year
ESG Analog Signal Generator	Rohde&Schwarz	SMB100B	102507	Mar. 28, 2024	1 Year
Coupler	Woken	0110A056020-10	COM27RW1A3	May. 09, 2024	1 Year
Temp.&Humi.Recorder	Deli	/	SZ-RF-002	Apr. 02, 2024	1 Year

Note:

- Referring to KDB 865664 D01 v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipole are also not physically damaged, or repaired during the interval. The dipole justification can be found in appendix C.
The return loss is $< -20\text{dB}$, within 20% of prior calibration, the impedance is with 5ohm of prior calibration.



6. Measurement Uncertainty

DASY Uncertainty Budget According to IEEE 1528-2013 (30 MHz - 6 GHz range)								
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff
Measurement System								
Probe Calibration	6.65	N	1	1	1	6.7	6.7	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9	∞
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3	∞
Test Sample Related								
Device Positioning	4.3	N	1	1	1	4.3	4.3	35
Device Holder	4.9	N	1	1	1	4.9	4.9	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.16	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	10.0	R	1.732	0.78	0.71	4.5	4.1	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.64	R	1.732	0.78	0.71	1.6	1.5	∞
Liquid Permittivity Repeatability	0.08	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	10.0	R	1.732	0.23	0.26	1.3	1.5	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	1.78	R	1.732	0.23	0.26	0.2	0.3	∞
Combined Std. Uncertainty						14.0%	13.9%	624
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						28.0%	27.7%	



7. Information on the Testing Laboratories

We, Huarui 7layers High Technology (Suzhou) Co., Ltd., were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation.

If you have any comments, please feel free to contact us at the following:

Add: Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

[Tel: +86 \(0557\) 368 1008](tel:+86(0557)3681008)

The road map of all our labs can be found in our web site also

[Web: http://www.7Layers.com](http://www.7Layers.com)

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

P01 Dipole 835 MHz D835V2_250216

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 835 MHz D835V2,	10.0 x 10.0 x 340.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 15.00	D835	CW, 0--	835.000, 50	9.47	0.92	43.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL835-2025-02-16	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

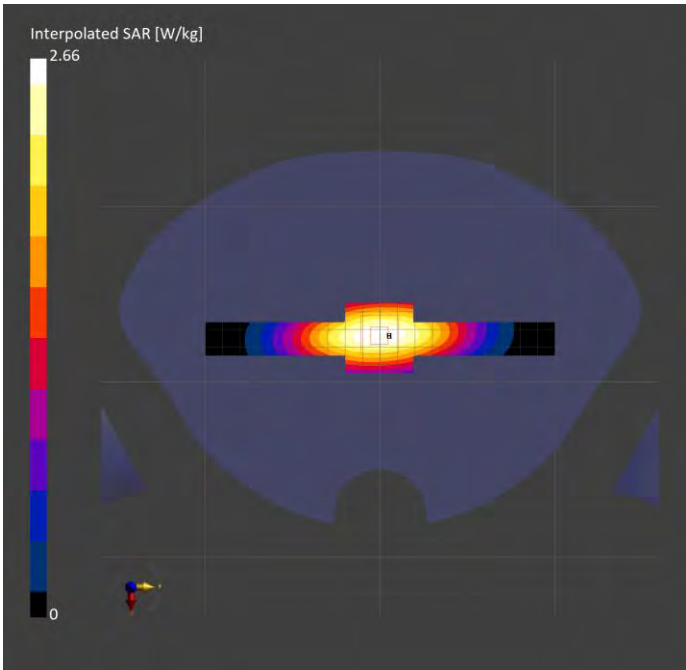
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-16	2025-02-16
psSAR1g [W/kg]	2.30	2.33
psSAR10g [W/kg]	1.52	1.52
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.6
Dist 3dB Peak [mm]		19.6

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P02 Dipole 835 MHz D835V2_250218

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 835 MHz D835V2,	10.0 x 10.0 x 340.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 15.00	D835	CW, 0--	835.000, 50	9.47	0.94	43.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL835-2025-02-18	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

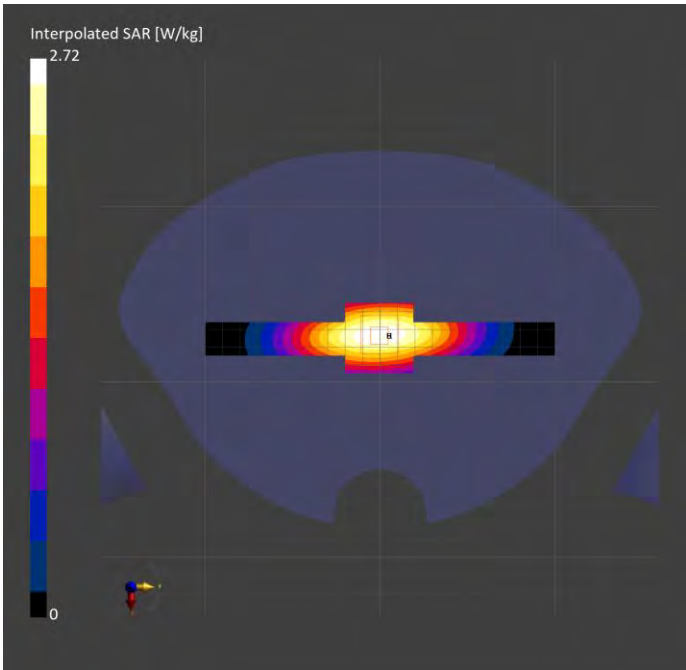
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-18	2025-02-18
psSAR1g [W/kg]	2.36	2.38
psSAR10g [W/kg]	1.56	1.55
Power Drift [dB]	0.00	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.4
Dist 3dB Peak [mm]		19.6

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P03 Dipole 1750 MHz D1750V2_250217

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 1750 MHz D1750V2,	10.0 x 10.0 x 302.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D1750	CW, 0--	1750.000, 50	8.31	1.34	41.45

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL1750-2025-02-17	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

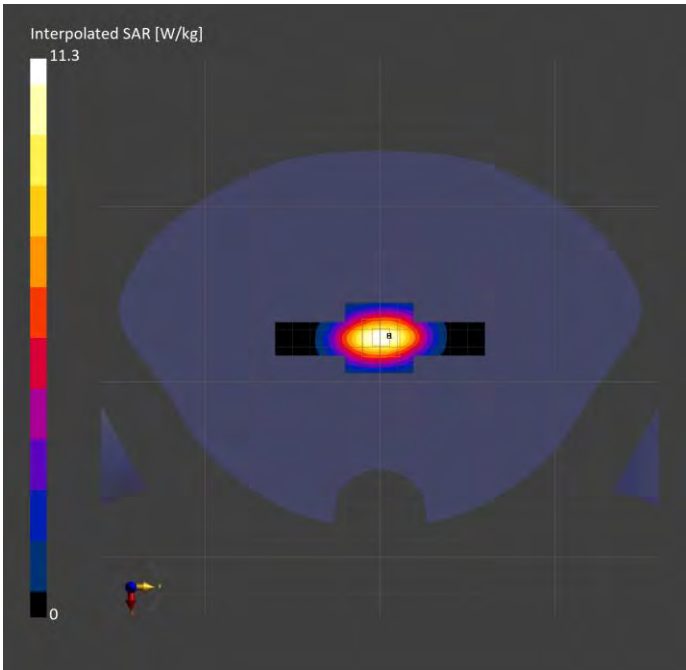
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-17	2025-02-17
psSAR1g [W/kg]	9.01	9.13
psSAR10g [W/kg]	4.85	4.91
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.3
Dist 3dB Peak [mm]		10.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P04 Dipole 1750 MHz D1750V2_250220

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 1750 MHz D1750V2,	10.0 x 10.0 x 302.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D1750	CW, 0--	1750.000, 50	8.31	1.41	39.25

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL1750-2025-02-20	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

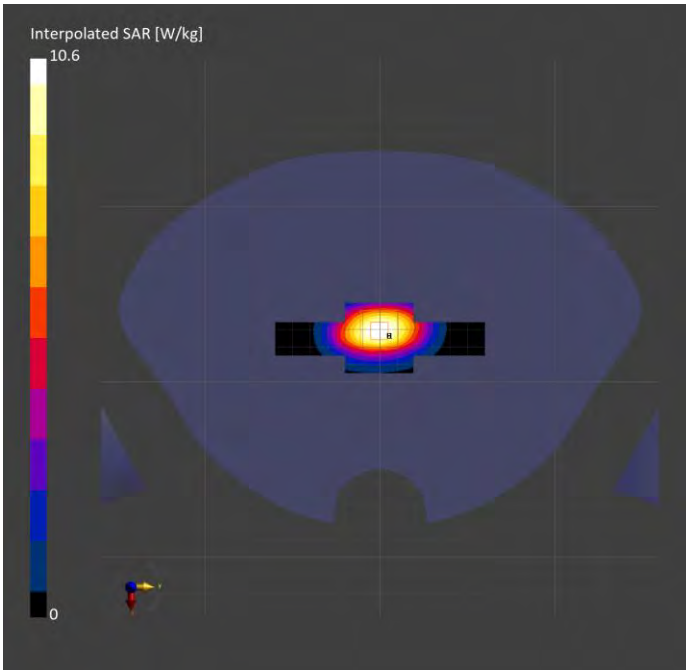
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-20	2025-02-20
psSAR1g [W/kg]	8.78	9.17
psSAR10g [W/kg]	4.91	4.93
Power Drift [dB]	-0.00	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.7
Dist 3dB Peak [mm]		10.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P05 Dipole 1950 MHz D1950V3_250221

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 1950 MHz D1950V3,	10.0 x 10.0 x 300.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D1950	CW, 0--	1950.000, 50	7.97	1.43	40.81

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL1950-2025-02-21	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

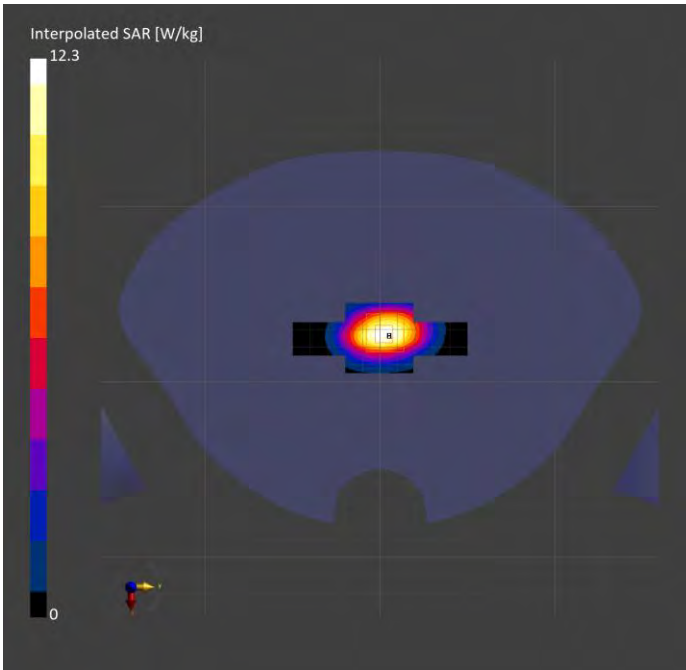
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-21	2025-02-21
psSAR1g [W/kg]	9.88	10.1
psSAR10g [W/kg]	5.23	5.30
Power Drift [dB]	-0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.8
Dist 3dB Peak [mm]		9.9

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P06 Dipole 1950 MHz D1950V3_250226

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 1950 MHz D1950V3,	10.0 x 10.0 x 300.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D1950	CW, 0--	1950.000, 50	7.97	1.42	40.75

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL1950-2025-02-26	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

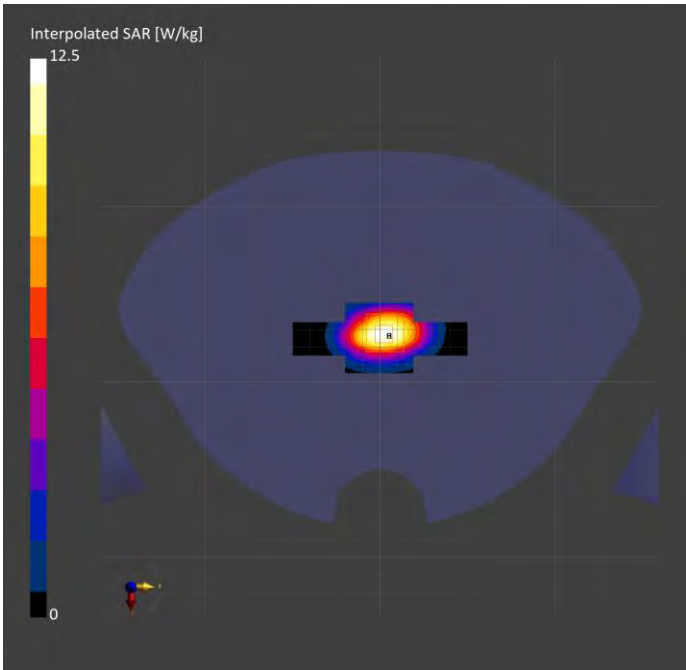
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-26	2025-02-26
psSAR1g [W/kg]	10.1	10.4
psSAR10g [W/kg]	5.32	5.38
Power Drift [dB]	-0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.5
Dist 3dB Peak [mm]		9.9

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P07 Dipole 2450 MHz D2450V2_250227

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 2450 MHz D2450V2,	10.0 x 10.0 x 290.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D2450	CW, 0--	2450.000, 50	7.46	1.73	39.95

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL2450-2025-02-27	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

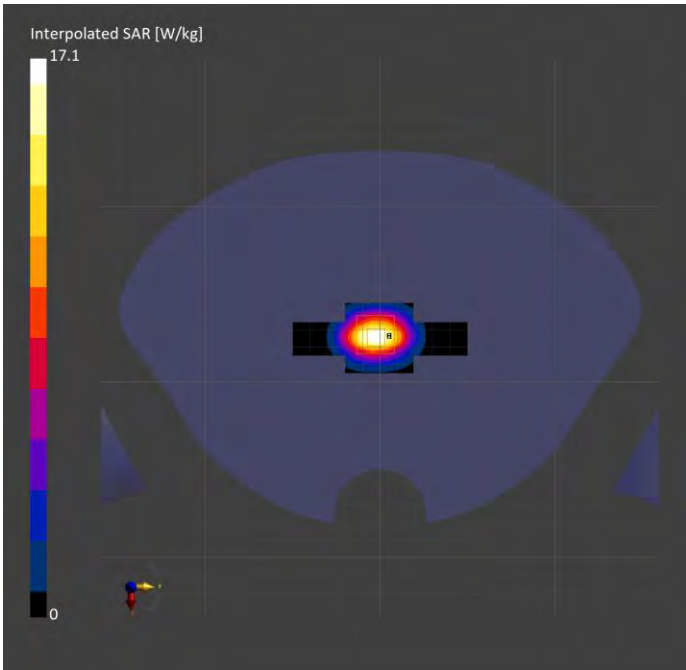
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-27	2025-02-27
psSAR1g [W/kg]	13.2	13.3
psSAR10g [W/kg]	6.17	6.25
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.0
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P08 Dipole 2550 MHz D2550V2_250222

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 2550 MHz D2550V2,	10.0 x 10.0 x 290.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D2550V2	CW, 0--	2550.000, 50	7.31	1.91	37.85

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL2550-2025-02-22	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

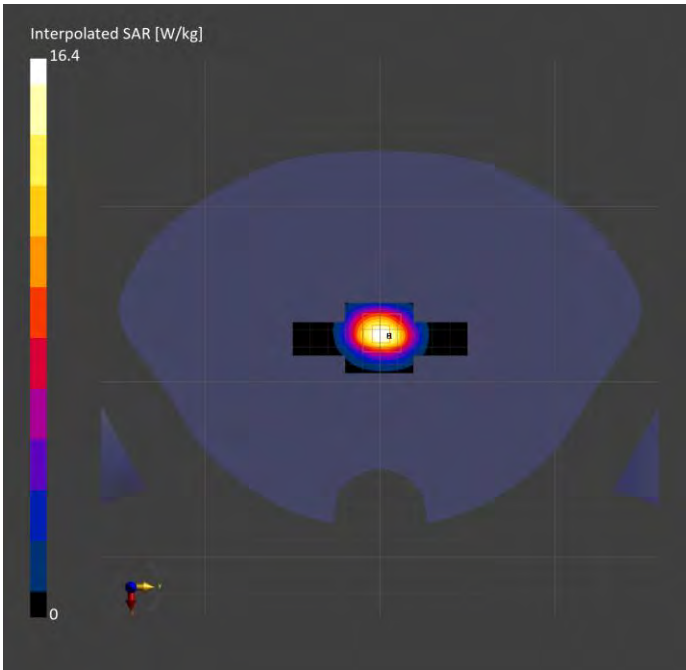
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-22	2025-02-22
psSAR1g [W/kg]	12.6	13.1
psSAR10g [W/kg]	5.93	6.06
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P09 Dipole 2550 MHz D2550V2_250225

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 2550 MHz D2550V2,	10.0 x 10.0 x 290.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D2550V2	CW, 0--	2550.000, 50	7.31	1.9	37.78

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL2550-2025-02-25	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

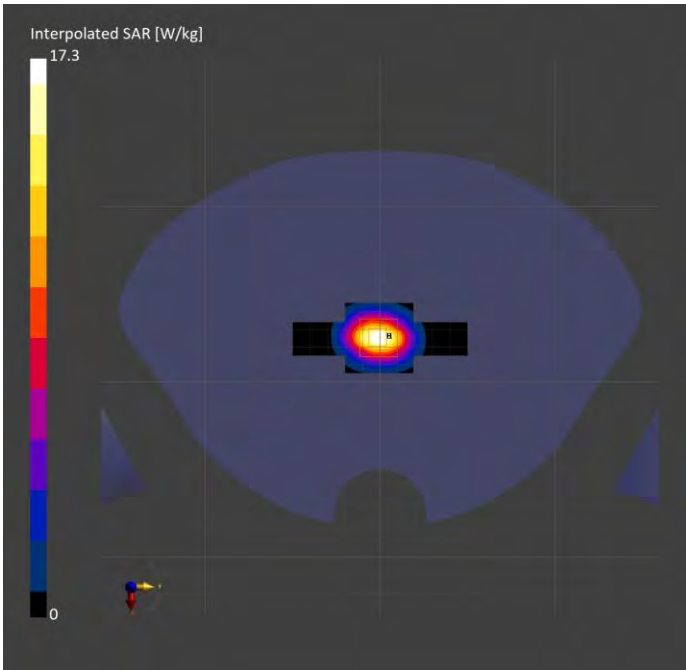
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-25	2025-02-25
psSAR1g [W/kg]	13.0	13.3
psSAR10g [W/kg]	5.97	6.12
Power Drift [dB]	-0.02	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.0
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P10 Dipole 2550 MHz D2550V2_250304

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 2550 MHz D2550V2,	10.0 x 10.0 x 290.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D2550V2	CW, 0--	2550.000, 50	6.84	1.91	37.83

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL2550-2025-03-04	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

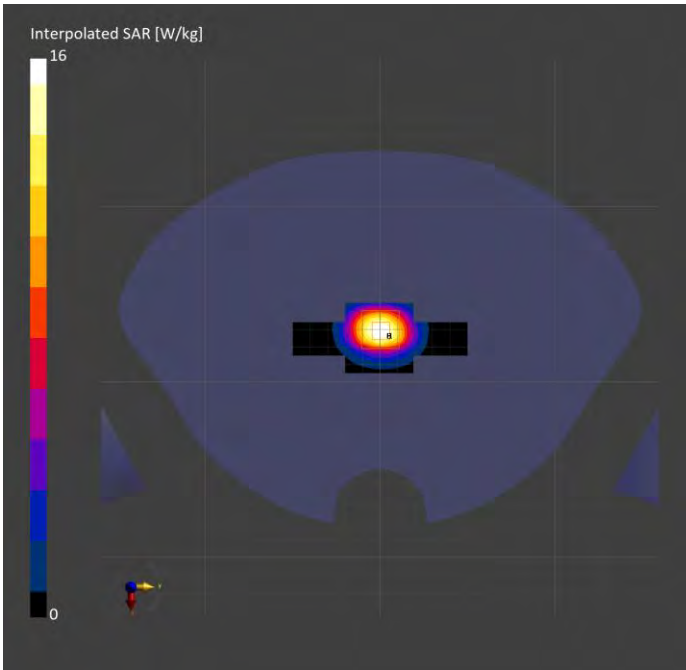
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-04	2025-03-04
psSAR1g [W/kg]	13.1	13.5
psSAR10g [W/kg]	6.11	6.17
Power Drift [dB]	-0.00	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.3
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P11 Dipole 3500 MHz D3500V2_250223

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 3500 MHz D3500V2,	10.0 x 10.0 x 285.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D3500	CW, -	3500.000, 50	6.71	2.84	37.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL3500-2025-02-23	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

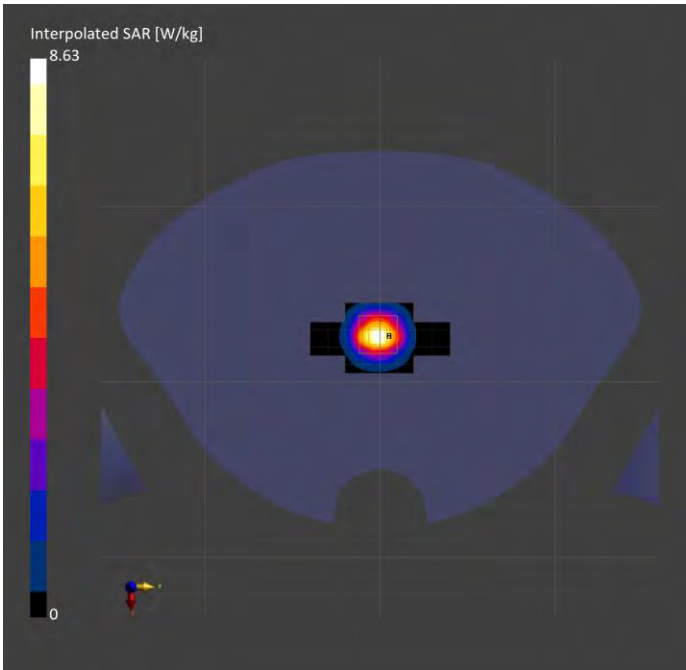
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-23	2025-02-23
psSAR1g [W/kg]	6.12	6.33
psSAR10g [W/kg]	2.39	2.47
Power Drift [dB]	-0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.2
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P12 Dipole 3500 MHz D3500V2_250306

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 3500 MHz D3500V2,	10.0 x 10.0 x 285.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D3500	CW, 0--	3500.000, 50	6.71	2.79	39.41

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL3500-2025-03-06	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

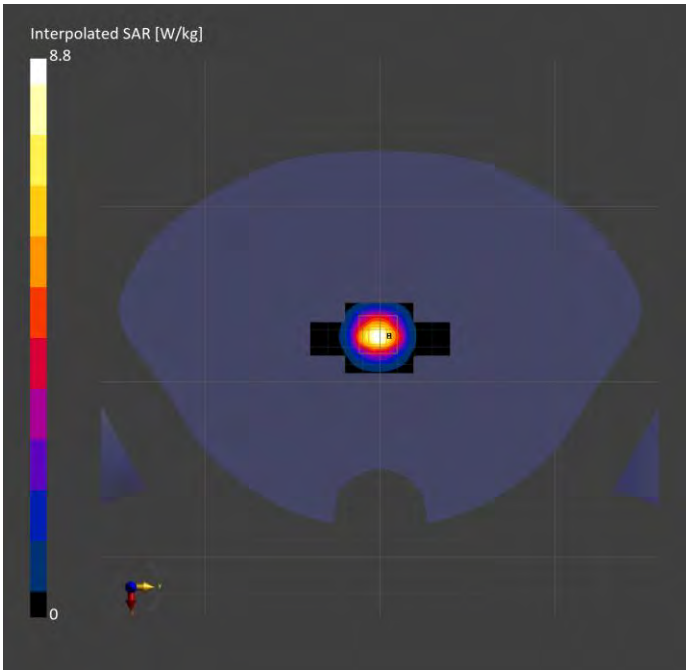
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-06	2025-03-06
psSAR1g [W/kg]	6.25	6.51
psSAR10g [W/kg]	2.44	2.53
Power Drift [dB]	-0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.2
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P13 Dipole 3500 MHz D3500V2_250309

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 3500 MHz D3500V2,	10.0 x 10.0 x 285.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D3500	CW, 0--	3500.000, 50	6.71	2.83	39.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL3500-2025-03-09	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

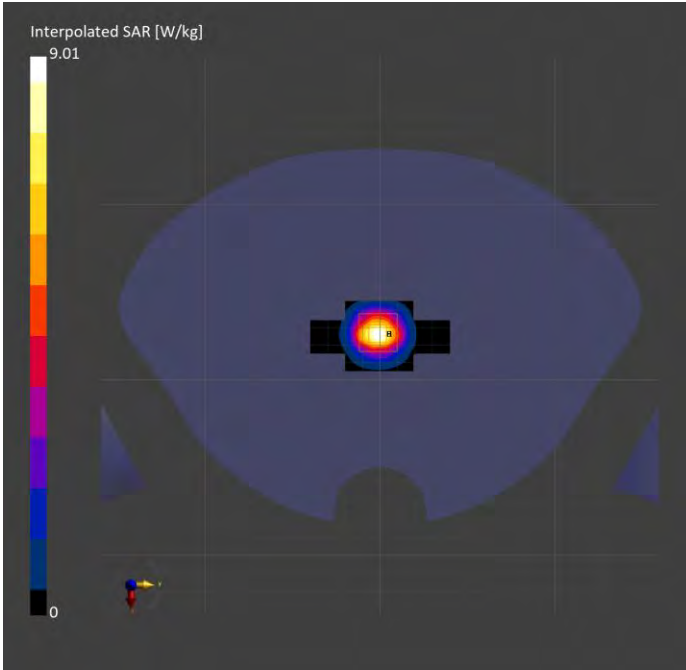
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-09	2025-03-09
psSAR1g [W/kg]	6.39	6.66
psSAR10g [W/kg]	2.50	2.59
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.1
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P14 Dipole 3700 MHz D3700V2_250307

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 3700 MHz D3700V2,	10.0 x 10.0 x 285.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D3700	CW, 0--	3700.000, 50	6.5	3.01	36.84

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL3700_2025-03-07	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

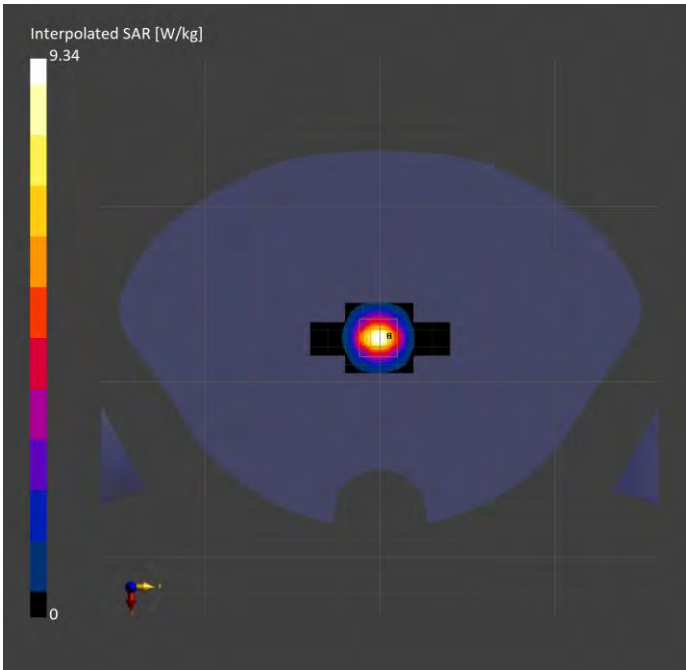
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-07	2025-03-07
psSAR1g [W/kg]	6.42	6.67
psSAR10g [W/kg]	2.38	2.54
Power Drift [dB]	0.00	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.0
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P15 Dipole 3700 MHz D3700V2_250310

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 3700 MHz D3700V2,	10.0 x 10.0 x 285.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D3700	CW, 0--	3700.000, 50	6.5	3.05	39.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL3700-2025-03-10	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

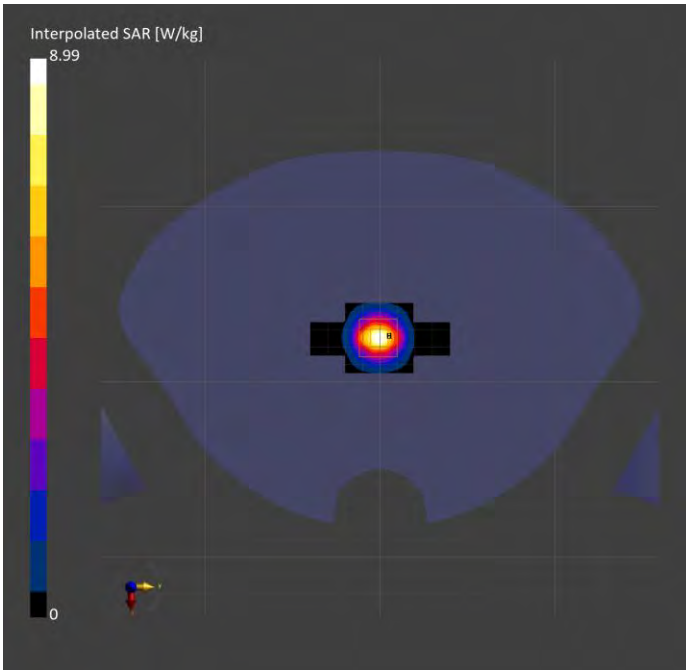
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-10	2025-03-10
psSAR1g [W/kg]	6.18	6.42
psSAR10g [W/kg]	2.29	2.45
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.0
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P16 Dipole 3900 MHz D3900V2_250308

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 3900 MHz D3900V2,	10.0 x 10.0 x 285.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D3900	CW, 0--	3900.000, 50	6.4	3.19	36.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL3900-2025-03-08	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

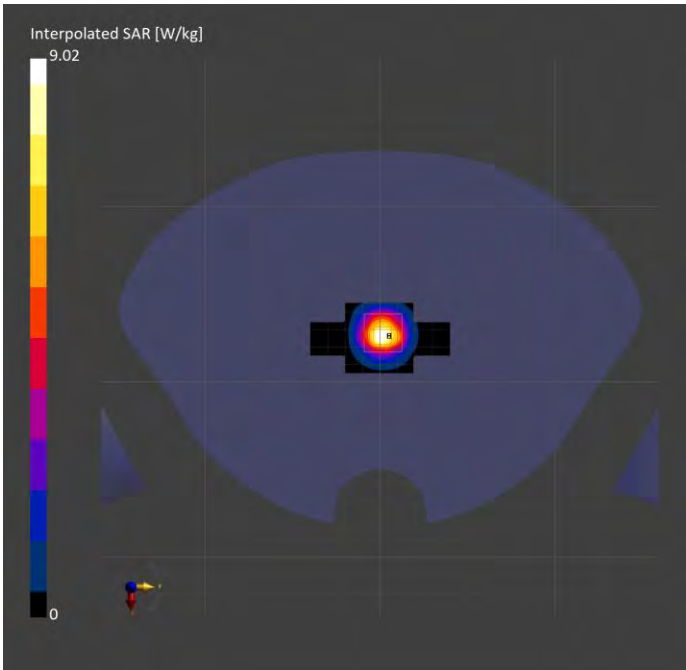
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-08	2025-03-08
psSAR1g [W/kg]	6.27	6.72
psSAR10g [W/kg]	2.31	2.44
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		73.7
Dist 3dB Peak [mm]		8.6

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P17 Dipole 3900 MHz D3900V2_250311

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole 3700 MHz D3700V2,	10.0 x 10.0 x 285.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D3900	CW, 0--	3900.000, 50	6.4	3.25	38.66

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL3900-2025-03-11	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

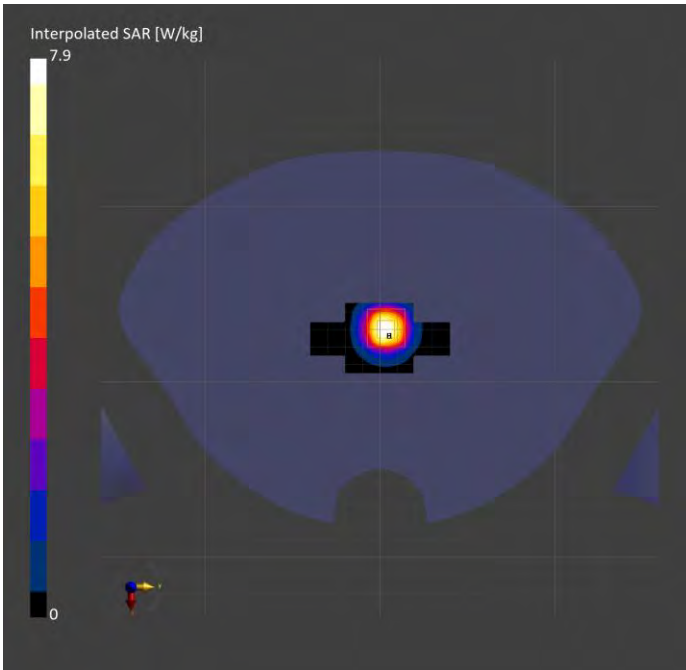
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-11	2025-03-11
psSAR1g [W/kg]	5.80	6.59
psSAR10g [W/kg]	2.26	2.39
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		73.2
Dist 3dB Peak [mm]		8.6

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P18 Dipole D5GHzV2_250311

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole D5GHzV2,	10.0 x 10.0 x 300.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D5GHz	CW, 0--	5250.000, 25	5.16	4.58	35.66

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL5250-2025-03-11	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

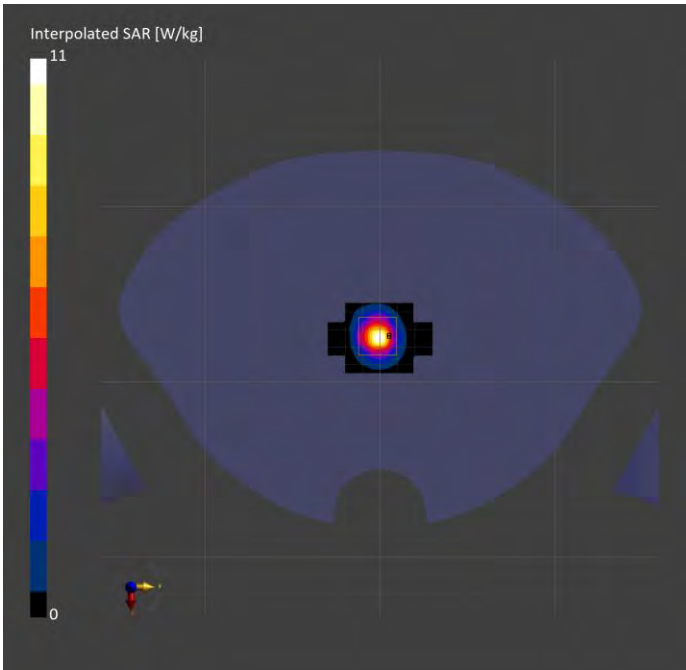
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 60.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-11	2025-03-11
psSAR1g [W/kg]	6.80	7.66
psSAR10g [W/kg]	1.98	2.22
Power Drift [dB]	0.00	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.0
Dist 3dB Peak [mm]		7.3

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P19 Dipole D5GHzV2_250312

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole D5GHzV2,	10.0 x 10.0 x 300.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D5GHz	CW, 0--	5600.000, 60	4.56	4.97	35.21

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL5600-2025-03-12	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

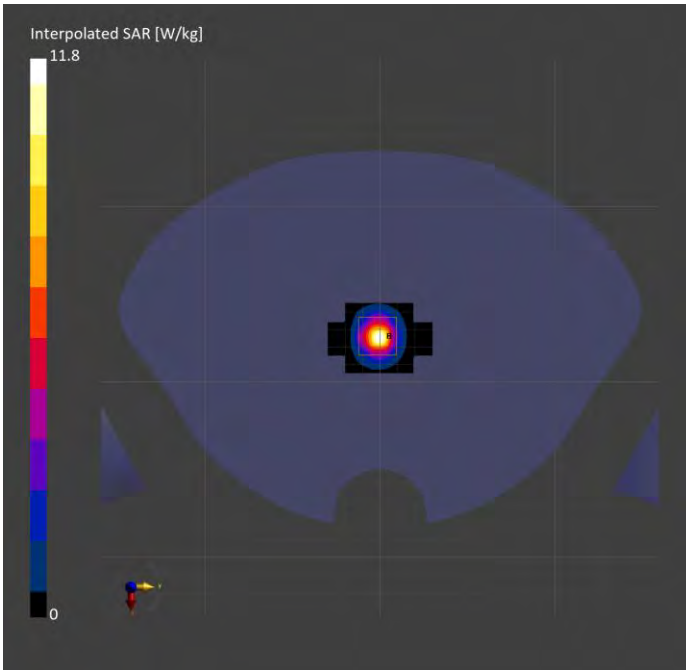
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 60.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-12	2025-03-12
psSAR1g [W/kg]	7.34	7.91
psSAR10g [W/kg]	2.10	2.29
Power Drift [dB]	-0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.5
Dist 3dB Peak [mm]		7.6

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P20 Dipole D5GHzV2_250313

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole D5GHzV2,	10.0 x 10.0 x 300.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	FRONT, 10.00	D5GHz	CW, 0--	5750.000, 75	4.62	5.11	35.07

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL5750-2025-03-13	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

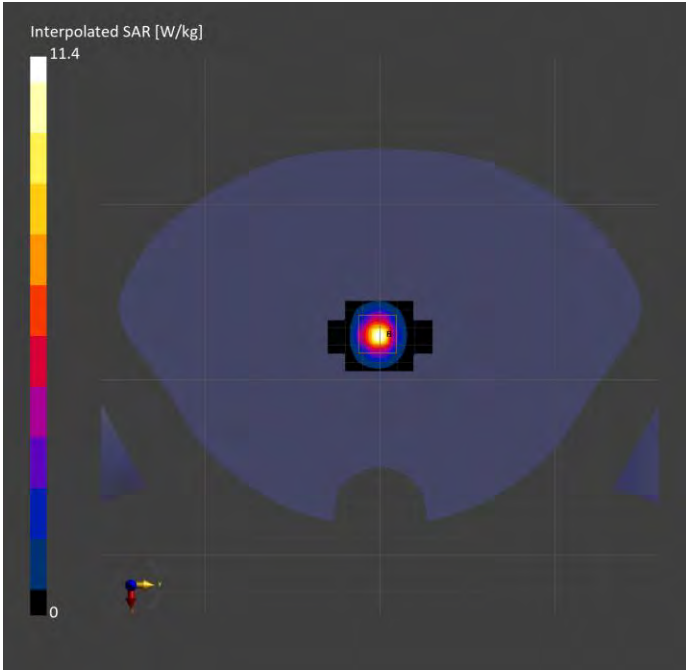
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 60.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-03-13	2025-03-13
psSAR1g [W/kg]	7.15	7.76
psSAR10g [W/kg]	2.05	2.25
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.2
Dist 3dB Peak [mm]		7.6

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		





Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

P01 GSM850_GPRS 3Tx Slot_Left Cheek_Ch189

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	164.0 x 78.0 x 11.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, -	CHEEK, 0.00	GSM 850	GSM, -	836.400, 189	9.47	0.92	43.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2161	HSL835-2025-02-16	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

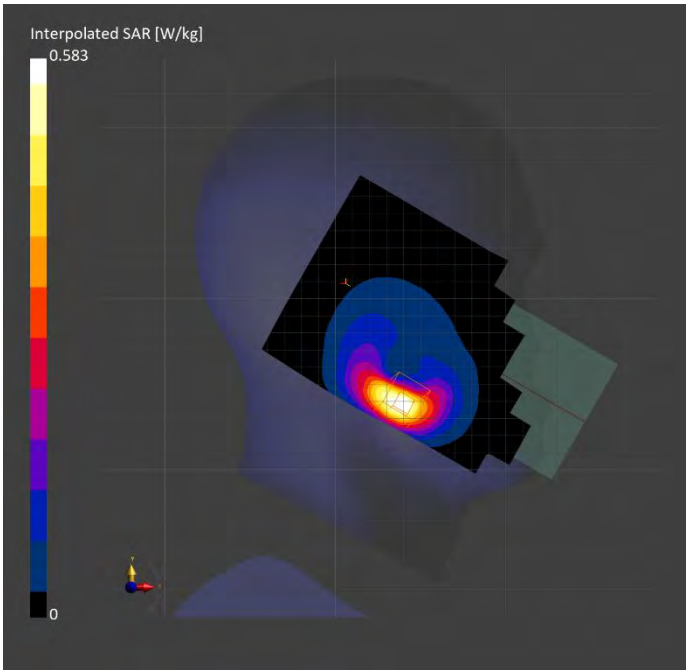
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-16	2025-02-16
psSAR1g [W/kg]	0.476	0.484
psSAR10g [W/kg]	0.283	0.256
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.0
Dist 3dB Peak [mm]		7.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P02 GSM1900_GPRS 2Tx Slot_Right Cheek_Ch661

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	164.0 x 78.0 x 11.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, -	CHEEK, 0.00	PCS 1900	GSM, -	1880.00, 661	7.97	1.38	40.76

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2161	HSL1950-2025-02-26	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

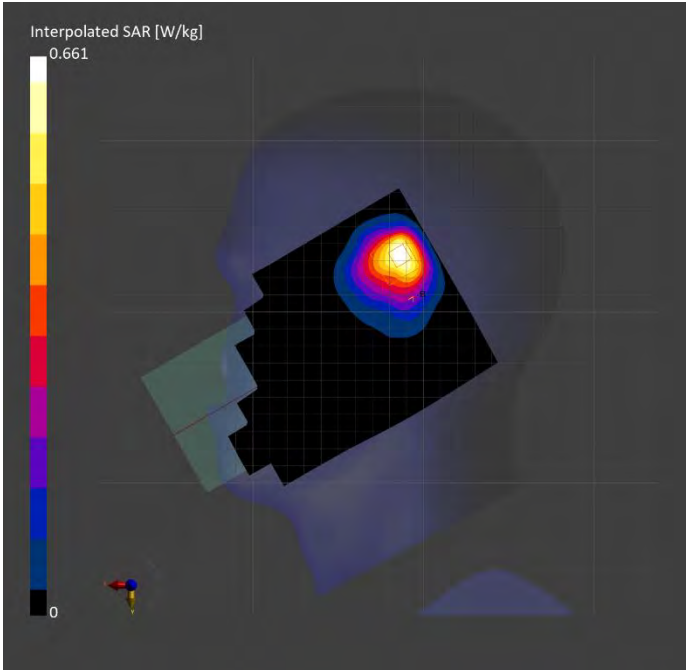
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-26	2025-02-26
psSAR1g [W/kg]	0.520	0.613
psSAR10g [W/kg]	0.282	0.296
Power Drift [dB]	0.00	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.5
Dist 3dB Peak [mm]		6.5

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P03 WCDMA II_RMC12.2k_Right Cheek_Ch9538

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	164.0 x 78.0 x 11.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, -	CHEEK, 0.00	Band 2	WCDMA, -	1907.600, 9538	7.97	1.4	40.77

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2161	HSL1950-2025-02-26	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

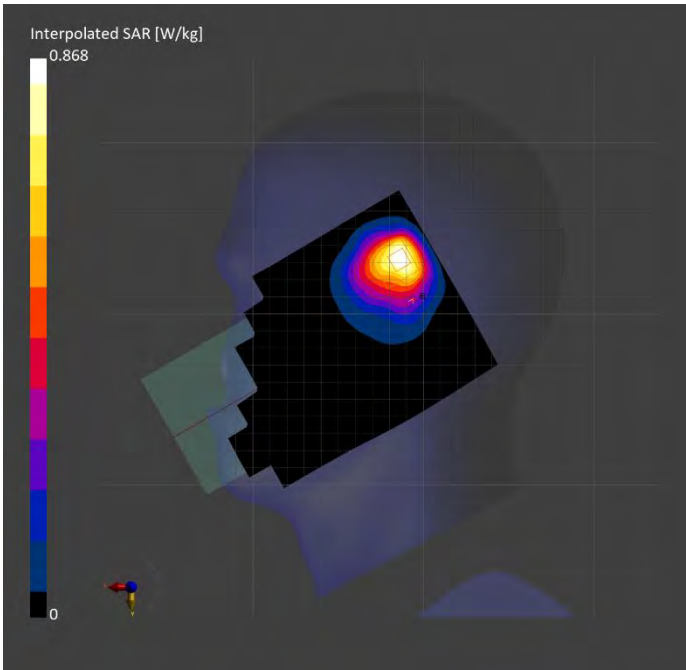
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-26	2025-02-26
psSAR1g [W/kg]	0.687	0.812
psSAR10g [W/kg]	0.379	0.407
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.8
Dist 3dB Peak [mm]		7.3

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P04 WCDMA IV_RMC12.2K_Right Cheek_Ch1513

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	164.0 x 78.0 x 11.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, -	CHEEK, 0.00	Band 4	WCDMA, -	1752.600, 1513	8.31	1.34	41.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2161	HSL1750-2025-02-17	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

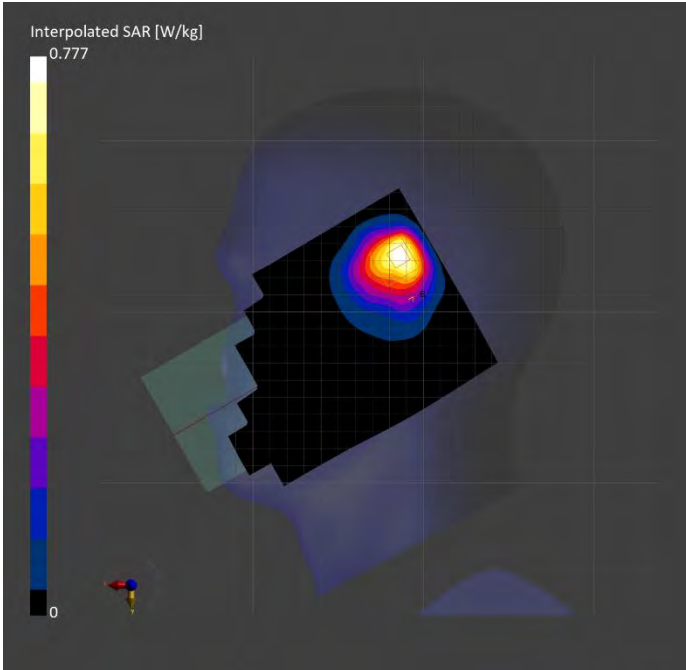
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-17	2025-02-17
psSAR1g [W/kg]	0.618	0.722
psSAR10g [W/kg]	0.345	0.357
Power Drift [dB]	0.03	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.6
Dist 3dB Peak [mm]		7.3

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P05 WCDMA V_RMC12.2k_Left Cheek_Ch4182

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	164.0 x 78.0 x 11.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, -	CHEEK, 0.00	Band 5	WCDMA, -	836,400, 4182	9.47	0.942	43.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2161	HSL835-2025-02-18	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

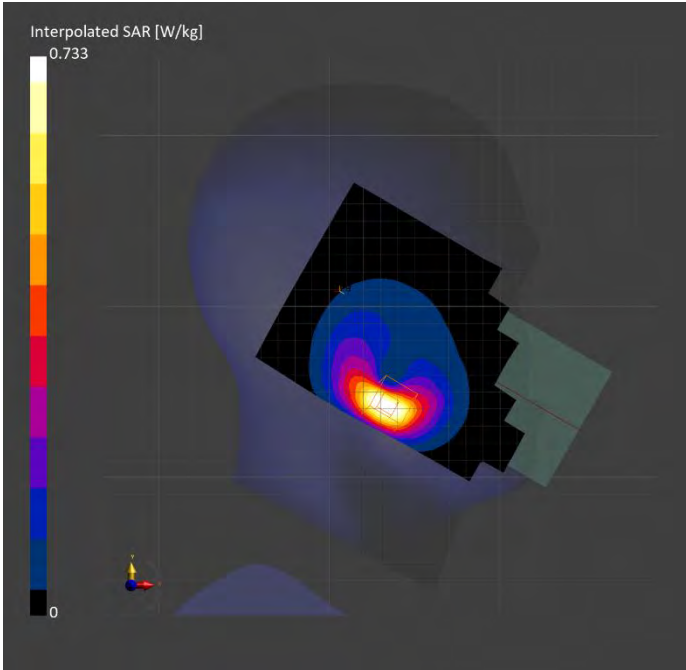
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-18	2025-02-18
psSAR1g [W/kg]	0.598	0.642
psSAR10g [W/kg]	0.366	0.339
Power Drift [dB]	-0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.1
Dist 3dB Peak [mm]		7.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P06 LTE B2_QPSK20M_Right Cheek_Ch19100_1RB_OS50

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	164.0 x 78.0 x 11.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, -	CHEEK, 0.00	Band 2	LTE-FDD, -	1900.000, 19100	7.97	1.40	40.8

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2161	HSL1950-2025-02-21	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

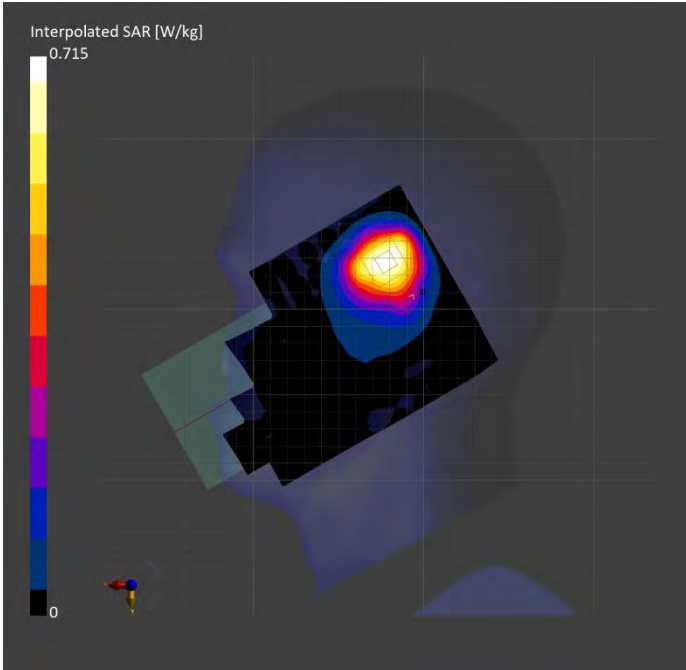
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-21	2025-02-21
psSAR1g [W/kg]	0.584	0.744
psSAR10g [W/kg]	0.342	0.389
Power Drift [dB]	0.07	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.0
Dist 3dB Peak [mm]		7.7

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P07 LTE B4_QPSK20M_Right Cheek_Ch20300_50RB_OS50

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	164.0 x 78.0 x 11.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, -	TILT, 0.00	Band 4	LTE-FDD, -	1745.000, 20300	8.31	1.34	41.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2161	HSL1750-2025-02-17	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

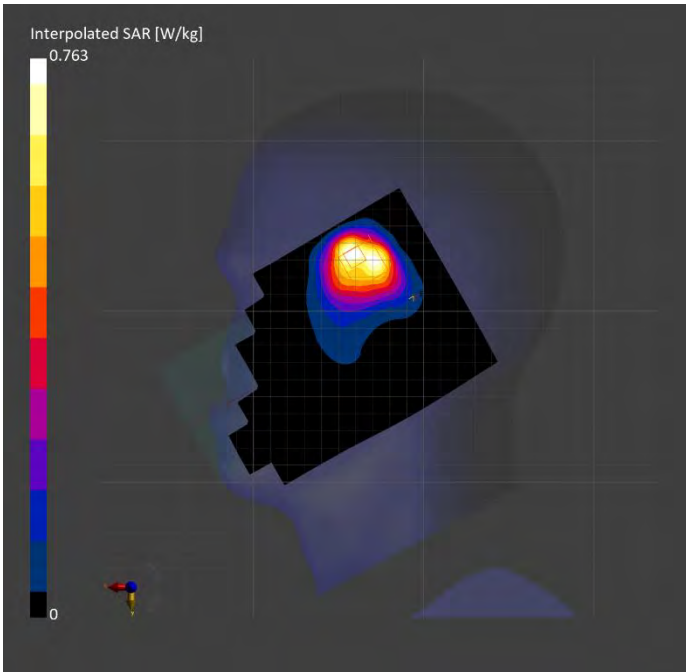
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-17	2025-02-17
psSAR1g [W/kg]	0.596	0.798
psSAR10g [W/kg]	0.351	0.391
Power Drift [dB]	0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.2
Dist 3dB Peak [mm]		6.5

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P08 LTE B5_QPSK10M_Left Cheek_Ch20525_1RB_OS24

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	164.0 x 78.0 x 11.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, -	CHEEK, 0.00	Band 5	LTE-FDD, -	836.500, 20525	9.47	0.942	43.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2161	HSL835-2025-02-18	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

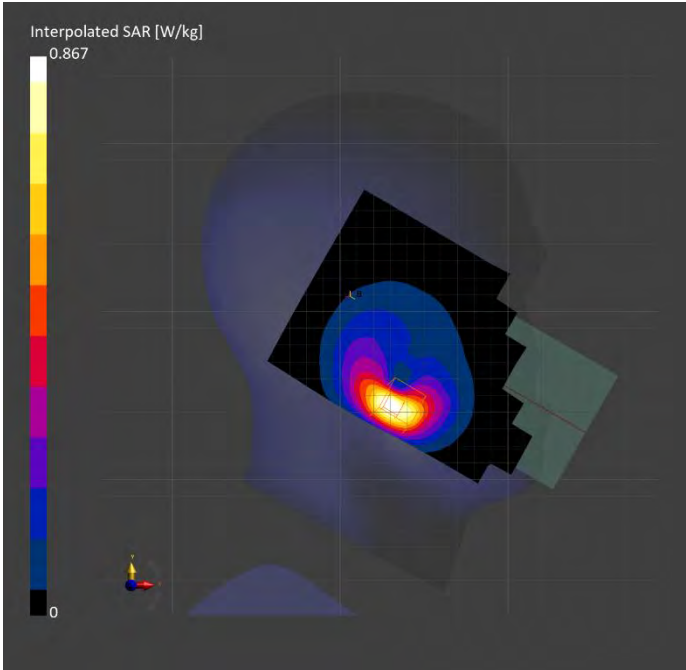
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-18	2025-02-18
psSAR1g [W/kg]	0.696	0.786
psSAR10g [W/kg]	0.421	0.409
Power Drift [dB]	-0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.1
Dist 3dB Peak [mm]		6.1

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



P09 LTE B7_QPSK20M_Right Tilted_Ch20850_1RB_OS0

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	164.0 x 78.0 x 11.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, -	TILT, 0.00	Band 7	LTE-FDD, -	2510.000, 20850	7.31	1.88	37.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2161	HSL2550-2025-02-22	EX3DV4 - SN3873, 2024-09-29	DAE4 Sn1389, 2024-11-11

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-02-22	2025-02-22
psSAR1g [W/kg]	0.673	0.778
psSAR10g [W/kg]	0.326	0.324
Power Drift [dB]	0.16	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		74.7
Dist 3dB Peak [mm]		6.4

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		

