



**MIMO SAR Verification Results**

FR1 n41 MIMO DSI 5(Head)			
SISO Ant0 Plimit (dBm)	19.5	SISO Ant0 Pmax (dBm)	25.5
SISO Ant6 Plimit (dBm)	16.5	SISO Ant6 Pmax (dBm)	25.5
Ptest (dBm)	16.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.91	Back off	0
Measured MIMO Ptest (dBm)	16.18	Measured MIMO SAR at meas. Ptest (W/kg)	0.742
Reported SAR <sub>MIMO</sub>	1.356	Calc.SAR	2.320

SISO Ant5 Plimit (dBm)	21.0	SISO Ant5 Pmax (dBm)	26.5
SISO Ant7 Plimit (dBm)	22.0	SISO Ant7 Pmax (dBm)	26.0
Ptest (dBm)	21.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.91	Back off	0
Measured MIMO Ptest (dBm)	21.74	Measured MIMO SAR at meas. Ptest (W/kg)	0.485
Reported SAR <sub>MIMO</sub>	0.695	Calc.SAR	2.773

FR1 n41 MIMO DSI 4(Hotspot)			
SISO Ant0 Plimit (dBm)	19.5	SISO Ant0 Pmax (dBm)	25.5
SISO Ant6 Plimit (dBm)	18.0	SISO Ant6 Pmax (dBm)	25.5
Ptest (dBm)	18.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.91	Back off	0
Measured MIMO Ptest (dBm)	17.68	Measured MIMO SAR at meas. Ptest (W/kg)	0.706
Reported SAR <sub>MIMO</sub>	1.291	Calc.SAR	2.639

SISO Ant5 Plimit (dBm)	20.5	SISO Ant5 Pmax (dBm)	26.5
SISO Ant7 Plimit (dBm)	22.5	SISO Ant7 Pmax (dBm)	26.0
Ptest (dBm)	20.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.91	Back off	0
Measured MIMO Ptest (dBm)	22.24	Measured MIMO SAR at meas. Ptest (W/kg)	0.822
Reported SAR <sub>MIMO</sub>	0.935	Calc.SAR	2.520

FR1 n41 MIMO DSI 4(Body worn)			
SISO Ant0 Plimit (dBm)	19.5	SISO Ant0 Pmax (dBm)	25.5
SISO Ant6 Plimit (dBm)	18.0	SISO Ant6 Pmax (dBm)	25.5
Ptest (dBm)	18.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.91	Back off	0
Measured MIMO Ptest (dBm)	17.68	Measured MIMO SAR at meas. Ptest (W/kg)	0.289
Reported SAR <sub>MIMO</sub>	0.528	Calc.SAR	2.639

SISO Ant5 Plimit (dBm)	20.5	SISO Ant5 Pmax (dBm)	26.5
SISO Ant7 Plimit (dBm)	22.5	SISO Ant7 Pmax (dBm)	26.0
Ptest (dBm)	20.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.91	Back off	0
Measured MIMO Ptest (dBm)	20.54	Measured MIMO SAR at meas. Ptest (W/kg)	0.489
Reported SAR <sub>MIMO</sub>	0.823	Calc.SAR	2.520

MIMO SAR Test Results

Head SAR Test																	
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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
FR1 n41	100M	QPSK	1	1	CP-30	Right Cheek	0mm	Ant 0+6(0)	DSI 5	518598	2592.99	19.43	20.70	1.340	0.07	0.452	0.606
FR1 n41	100M	QPSK	1	1	CP-30	Right Tilted	0mm	Ant 0+6(6)	DSI 5	518598	2592.99	16.18	17.70	1.419	0.09	0.742	1.053
														1.000			0.000
FR1 n41	100M	QPSK	1	1	CP-30	Left Cheek	0mm	Ant 5+7(5)	DSI 5	518598	2592.99	21.04	22.20	1.306	-0.07	0.102	0.133
FR1 n41	100M	QPSK	1	1	CP-30	Right Cheek	0mm	Ant 5+7(7)	DSI 5	518598	2592.99	21.74	23.20	1.400	0.05	0.485	0.679
														1.000			0.000
Hotspot SAR Test																	
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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
FR1 n41	100M	QPSK	1	1	CP-30	Left Side	10mm	Ant 0+6(0)	DSI 4	518598	2592.99	19.43	20.70	1.340	0.06	0.577	0.773
FR1 n41	100M	QPSK	1	1	CP-30	Top Side	10mm	Ant 0+6(6)	DSI 4	518598	2592.99	17.68	19.20	1.419	0.03	0.706	1.002
														1.000			0.000
FR1 n41	100M	QPSK	1	1	CP-30	Bottom Side	10mm	Ant 5+7(5)	DSI 4	518598	2592.99	20.54	21.70	1.306	0.07	0.542	0.708
FR1 n41	100M	QPSK	1	1	CP-30	Right Side	10mm	Ant 5+7(7)	DSI 4	518598	2592.99	22.24	23.70	1.400	0.05	0.822	1.150
														1.000			0.000
Body worn SAR Test																	
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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
FR1 n41	100M	QPSK	1	1	CP-30	Back	15mm	Ant 0+6(0)	DSI 4	518598	2592.99	19.43	20.70	1.340	0.09	0.231	0.309
FR1 n41	100M	QPSK	1	1	CP-30	Back	15mm	Ant 0+6(6)	DSI 4	518598	2592.99	17.68	19.20	1.419	-0.04	0.289	0.410
														1.000			0.000
FR1 n41	100M	QPSK	1	1	CP-30	Back	15mm	Ant 5+7(5)	DSI 4	518598	2592.99	20.54	21.70	1.306	0.05	0.489	0.639
FR1 n41	100M	QPSK	1	1	CP-30	Back	15mm	Ant 5+7(7)	DSI 4	518598	2592.99	22.24	23.70	1.400	0.01	0.166	0.232
														1.000			0.000