

MIMO SAR verification results

N41 UL-MIMO (Ant 9+1) DSI 2			
SISO Ant9 Plimit (dBm)	29.5	SISO Ant9 Pmax (dBm)	26.0
SISO Ant1 Plimit (dBm)	15.0	SISO Ant1 Pmax (dBm)	26.0
		MIMO Pmax (dBm)	27.5
Ptest (dBm)	15.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.60	Back off	0
Measured MIMO Ptest (dBm)	14.38	Measured MIMO SAR at meas. Ptest (W/kg)	0.349
Reported SAR _{MIMO}	0.507	Calc. SAR	0.782

N41 UL-MIMO (Ant 9+1) DSI 3			
SISO Ant9 Plimit (dBm)	18.0	SISO Ant9 Pmax (dBm)	26.0
SISO Ant1 Plimit (dBm)	15.5	SISO Ant1 Pmax (dBm)	26.0
		MIMO Pmax (dBm)	27.5
Ptest (dBm)	15.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	14.66	Measured MIMO SAR at meas. Ptest (W/kg)	0.623
Reported SAR _{MIMO}	0.952	Calc. SAR	1.751

N41 UL-MIMO (Ant 2+6) DSI 2			
SISO Ant2 Plimit (dBm)	31.6	SISO Ant2 Pmax (dBm)	25.0
SISO Ant6 Plimit (dBm)	19.5	SISO Ant6 Pmax (dBm)	23.5
		MIMO Pmax (dBm)	25.8
Ptest (dBm)	19.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.70	Back off	0
Measured MIMO Ptest (dBm)	19.21	Measured MIMO SAR at meas. Ptest (W/kg)	0.522
Reported SAR _{MIMO}	0.703	Calc. SAR	0.936

N41 UL-MIMO (Ant 2+6) DSI 3			
SISO Ant2 Plimit (dBm)	22.0	SISO Ant2 Pmax (dBm)	25.0
SISO Ant6 Plimit (dBm)	18.0	SISO Ant6 Pmax (dBm)	23.5
		MIMO Pmax (dBm)	25.8
Ptest (dBm)	18.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	18.12	Measured MIMO SAR at meas. Ptest (W/kg)	0.558
Reported SAR _{MIMO}	0.683	Calc. SAR	1.091

N48 UL-MIMO (Ant 4+7) DSI 2			
SISO Ant4 Plimit (dBm)	17.0	SISO Ant4 Pmax (dBm)	23.0
SISO Ant7 Plimit (dBm)	29.2	SISO Ant7 Pmax (dBm)	23.0
		MIMO Pmax (dBm)	24.5
Ptest (dBm)	17.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	17.44	Measured MIMO SAR at meas. Ptest (W/kg)	0.737
Reported SAR _{MIMO}	0.838	Calc. SAR	1.188

N48 UL-MIMO (Ant 4+7) DSI 3			
SISO Ant4 Plimit (dBm)	14.5	SISO Ant4 Pmax (dBm)	23.0
SISO Ant7 Plimit (dBm)	15.0	SISO Ant7 Pmax (dBm)	23.0
		MIMO Pmax (dBm)	24.5
Ptest (dBm)	14.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	14.18	Measured MIMO SAR at meas. Ptest (W/kg)	0.576
Reported SAR _{MIMO}	0.781	Calc. SAR	2.119

N48 UL-MIMO (Ant 10+8) DSI 2			
SISO Ant10 Plimit (dBm)	31.5	SISO Ant10 Pmax (dBm)	23.0
SISO Ant8 Plimit (dBm)	16.5	SISO Ant8 Pmax (dBm)	23.0
		MIMO Pmax (dBm)	24.5
Ptest (dBm)	16.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.60	Back off	0
Measured MIMO Ptest (dBm)	16.46	Measured MIMO SAR at meas. Ptest (W/kg)	0.354
Reported SAR _{MIMO}	0.450	Calc. SAR	0.779

N48 UL-MIMO (Ant 10+8) DSI 3			
SISO Ant10 Plimit (dBm)	10.5	SISO Ant10 Pmax (dBm)	23.0
SISO Ant8 Plimit (dBm)	15.0	SISO Ant8 Pmax (dBm)	23.0
		MIMO Pmax (dBm)	24.5
Ptest (dBm)	10.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.70	Back off	0
Measured MIMO Ptest (dBm)	10.66	Measured MIMO SAR at meas. Ptest (W/kg)	0.319
Reported SAR _{MIMO}	0.387	Calc. SAR	1.194

N77 UL-MIMO (Ant 4+7) DSI 2			
SISO Ant4 Plimit (dBm)	17.5	SISO Ant4 Pmax (dBm)	26.0
SISO Ant7 Plimit (dBm)	27.4	SISO Ant7 Pmax (dBm)	22.0
		MIMO Pmax (dBm)	26.0
Ptest (dBm)	17.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	17.55	Measured MIMO SAR at meas. Ptest (W/kg)	0.728
Reported SAR _{MIMO}	0.906	Calc. SAR	1.235

N77 UL-MIMO (Ant 4+7) DSI 3			
SISO Ant4 Plimit (dBm)	16.5	SISO Ant4 Pmax (dBm)	26.0
SISO Ant7 Plimit (dBm)	16.0	SISO Ant7 Pmax (dBm)	22.0
		MIMO Pmax (dBm)	26.0
Ptest (dBm)	16.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	16.22	Measured MIMO SAR at meas. Ptest (W/kg)	0.527
Reported SAR _{MIMO}	0.631	Calc. SAR	2.119

N77 UL-MIMO (Ant 10+8) DSI 2			
SISO Ant10 Plimit (dBm)	31.3	SISO Ant10 Pmax (dBm)	26.0
SISO Ant8 Plimit (dBm)	14.5	SISO Ant8 Pmax (dBm)	22.0
		MIMO Pmax (dBm)	26.0
Ptest (dBm)	14.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.60	Back off	0
Measured MIMO Ptest (dBm)	14.13	Measured MIMO SAR at meas. Ptest (W/kg)	0.338
Reported SAR _{MIMO}	0.463	Calc. SAR	0.771

N77 UL-MIMO (Ant 10+8) DSI 3			
SISO Ant10 Plimit (dBm)	11.5	SISO Ant10 Pmax (dBm)	26.0
SISO Ant8 Plimit (dBm)	14.0	SISO Ant8 Pmax (dBm)	22.0
		MIMO Pmax (dBm)	26.0
Ptest (dBm)	11.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.70	Back off	0
Measured MIMO Ptest (dBm)	11.22	Measured MIMO SAR at meas. Ptest (W/kg)	0.458
Reported SAR _{MIMO}	0.615	Calc. SAR	1.377

N41 UL-MIMO (Ant 9+1) DSI 6			
SISO Ant9 Plimit (dBm)	20.0	SISO Ant9 Pmax (dBm)	26.0
SISO Ant1 Plimit (dBm)	18.5	SISO Ant1 Pmax (dBm)	26.0
		MIMO Pmax (dBm)	27.5
Ptest (dBm)	18.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.00	Back off	0
Measured MIMO Ptest (dBm)	17.51	Measured MIMO SAR at meas. Ptest (W/kg)	1.630
Reported SAR _{MIMO}	2.577	Calc.SAR	4.300

N41 UL-MIMO (Ant 2+6) DSI 6			
SISO Ant2 Plimit (dBm)	22.0	SISO Ant2 Pmax (dBm)	25.0
SISO Ant6 Plimit (dBm)	17.5	SISO Ant6 Pmax (dBm)	23.5
		MIMO Pmax (dBm)	25.8
Ptest (dBm)	17.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	1.60	Back off	0
Measured MIMO Ptest (dBm)	17.58	Measured MIMO SAR at meas. Ptest (W/kg)	1.610
Reported SAR _{MIMO}	1.990	Calc.SAR	2.729

N48 UL-MIMO (Ant 4+7) DSI 6			
SISO Ant4 Plimit (dBm)	17.0	SISO Ant4 Pmax (dBm)	23.0
SISO Ant7 Plimit (dBm)	21.5	SISO Ant7 Pmax (dBm)	23.0
		MIMO Pmax (dBm)	24.5
Ptest (dBm)	17.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.00	Back off	0
Measured MIMO Ptest (dBm)	17.58	Measured MIMO SAR at meas. Ptest (W/kg)	1.050
Reported SAR _{MIMO}	1.157	Calc.SAR	3.411

N48 UL-MIMO (Ant 10+8) DSI 6			
SISO Ant10 Plimit (dBm)	15.0	SISO Ant10 Pmax (dBm)	23.0
SISO Ant8 Plimit (dBm)	19.5	SISO Ant8 Pmax (dBm)	23.0
		MIMO Pmax (dBm)	24.5
Ptest (dBm)	15.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	1.36	Back off	0
Measured MIMO Ptest (dBm)	15.33	Measured MIMO SAR at meas. Ptest (W/kg)	0.594
Reported SAR _{MIMO}	0.693	Calc.SAR	2.320

N77 UL-MIMO (Ant 4+7) DSI 6			
SISO Ant4 Plimit (dBm)	17.5	SISO Ant4 Pmax (dBm)	26.0
SISO Ant7 Plimit (dBm)	21.5	SISO Ant7 Pmax (dBm)	22.0
		MIMO Pmax (dBm)	26.0
Ptest (dBm)	17.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.00	Back off	0
Measured MIMO Ptest (dBm)	17.38	Measured MIMO SAR at meas. Ptest (W/kg)	0.723
Reported SAR _{MIMO}	0.936	Calc.SAR	3.520

N77 UL-MIMO (Ant 10+8) DSI 6			
SISO Ant10 Plimit (dBm)	15.0	SISO Ant10 Pmax (dBm)	26.0
SISO Ant8 Plimit (dBm)	18.5	SISO Ant8 Pmax (dBm)	22.0
		MIMO Pmax (dBm)	26.0
Ptest (dBm)	15.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	1.36	Back off	0
Measured MIMO Ptest (dBm)	14.75	Measured MIMO SAR at meas. Ptest (W/kg)	0.707
Reported SAR _{MIMO}	0.943	Calc.SAR	2.477

N41 UL-MIMO (Ant 9+1) DSI 7			
SISO Ant9 Plimit (dBm)	14.5	SISO Ant9 Pmax (dBm)	26.0
SISO Ant1 Plimit (dBm)	14.0	SISO Ant1 Pmax (dBm)	26.0
		MIMO Pmax (dBm)	27.5
Ptest (dBm)	14.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	13.67	Measured MIMO SAR at meas. Ptest (W/kg)	0.455
Reported SAR _{MIMO}	0.618	Calc.SAR	1.476

N41 UL-MIMO (Ant 2+6) DSI 7			
SISO Ant2 Plimit (dBm)	20.5	SISO Ant2 Pmax (dBm)	25.0
SISO Ant6 Plimit (dBm)	14.5	SISO Ant6 Pmax (dBm)	23.5
		MIMO Pmax (dBm)	25.8
Ptest (dBm)	14.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	14.63	Measured MIMO SAR at meas. Ptest (W/kg)	0.457
Reported SAR _{MIMO}	0.558	Calc.SAR	0.977

N48 UL-MIMO (Ant 4+7) DSI 7			
SISO Ant4 Plimit (dBm)	12.0	SISO Ant4 Pmax (dBm)	23.0
SISO Ant7 Plimit (dBm)	13.5	SISO Ant7 Pmax (dBm)	23.0
		MIMO Pmax (dBm)	24.5
Ptest (dBm)	12.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	12.48	Measured MIMO SAR at meas. Ptest (W/kg)	0.375
Reported SAR _{MIMO}	0.423	Calc.SAR	1.333

N48 UL-MIMO (Ant 10+8) DSI 7			
SISO Ant10 Plimit (dBm)	9.5	SISO Ant10 Pmax (dBm)	23.0
SISO Ant8 Plimit (dBm)	13.5	SISO Ant8 Pmax (dBm)	23.0
		MIMO Pmax (dBm)	24.5
Ptest (dBm)	9.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.50	Back off	0
Measured MIMO Ptest (dBm)	9.94	Measured MIMO SAR at meas. Ptest (W/kg)	0.241
Reported SAR _{MIMO}	0.274	Calc.SAR	0.880

N77 UL-MIMO (Ant 4+7) DSI 7			
SISO Ant4 Plimit (dBm)	14.0	SISO Ant4 Pmax (dBm)	26.0
SISO Ant7 Plimit (dBm)	14.5	SISO Ant7 Pmax (dBm)	22.0
		MIMO Pmax (dBm)	26.0
Ptest (dBm)	14.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	14.08	Measured MIMO SAR at meas. Ptest (W/kg)	0.560
Reported SAR _{MIMO}	0.692	Calc.SAR	1.476

N77 UL-MIMO (Ant 10+8) DSI 7			
SISO Ant10 Plimit (dBm)	10.5	SISO Ant10 Pmax (dBm)	26.0
SISO Ant8 Plimit (dBm)	12.5	SISO Ant8 Pmax (dBm)	22.0
		MIMO Pmax (dBm)	26.0
Ptest (dBm)	10.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.50	Back off	0
Measured MIMO Ptest (dBm)	10.08	Measured MIMO SAR at meas. Ptest (W/kg)	0.347
Reported SAR _{MIMO}	0.481	Calc.SAR	1.027

MIMO SAR Test results

Head SAR Test																			
System & Position								DUT & Accessory				Power							
Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Time-Up Limit (dBm)	Time-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Right Cheek	0mm	Ant 9+1(1)		DSI 2		518598	2592.99		14.38	16.00	1.452	1.000	-0.18
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Right Tilted	0mm	Ant 9+1(1)		DSI 2		518598	2592.99		14.38	16.00	1.452	1.000	0.15
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Right Tilted	0mm	Ant 2+6(6)		DSI 2		518598	2592.99		19.21	20.50	1.346	1.000	0
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Left Cheek	0mm	Ant 2+6(6)		DSI 2		518598	2592.99		19.21	20.50	1.346	1.000	0.03
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Right Cheek	0mm	Ant 4+7(4)		DSI 2		641666	3624.99		17.44	18.00	1.138	1.000	0.14
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Left Cheek	0mm	Ant 4+7(4)		DSI 2		641666	3624.99		17.44	18.00	1.138	1.000	-0.02
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Left Tilted	0mm	Ant 10+8(8)		DSI 2		641666	3624.99		16.46	17.50	1.271	1.000	0.17
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Left Tilted	0mm	Ant 10+8(8)		DSI 2		641666	3624.99		16.46	17.50	1.271	1.000	-0.19
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Right Cheek	0mm	Ant 4+7(4)		DSI 2		656000	3840		17.55	18.50	1.245	1.000	0.1
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Left Tilted	0mm	Ant 4+7(4)		DSI 2		656000	3840		17.55	18.50	1.245	1.000	-0.04
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Left Cheek	0mm	Ant 10+8(8)		DSI 2		656000	3840		14.13	15.50	1.371	1.000	-0.09
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Left Tilted	0mm	Ant 10+8(8)		DSI 2		656000	3840		14.13	15.50	1.371	1.000	0.07

Hotspot SAR Test																			
System & Position								DUT & Accessory				Power							
Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Time-Up Limit (dBm)	Time-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Right Side	5mm	Ant 9+1(1)		DSI 7		518598	2592.99		13.67	15.00	1.358	1.000	0
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Back	5mm	Ant 9+1(1)		DSI 7		518598	2592.99		13.67	15.00	1.358	1.000	0.15
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Left Side	5mm	Ant 2+6(6)		DSI 7		518598	2592.99		14.63	15.50	1.222	1.000	-0.13
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Left Side	5mm	Ant 2+6(6)		DSI 7		518598	2592.99		14.63	15.50	1.222	1.000	-0.14
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Back	5mm	Ant 4+7(4)		DSI 7		641666	3624.99		12.48	13.00	1.127	1.000	-0.09
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Left Side	5mm	Ant 4+7(4)		DSI 7		641666	3624.99		12.48	13.00	1.127	1.000	0.1
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Back	5mm	Ant 10+8(10)		DSI 7		641666	3624.99		9.94	10.50	1.138	1.000	-0.13
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Back	5mm	Ant 10+8(10)		DSI 7		641666	3624.99		9.94	10.50	1.138	1.000	-0.11
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Back	5mm	Ant 4+7(4)		DSI 7		656000	3840		14.08	15.00	1.236	1.000	0.16
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Left Side	5mm	Ant 4+7(4)		DSI 7		656000	3840		14.08	15.00	1.236	1.000	-0.18
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Back	5mm	Ant 10+8(10)		DSI 7		656000	3840		10.08	11.50	1.367	1.000	0.07
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Back	5mm	Ant 10+8(10)		DSI 7		656000	3840		10.08	11.50	1.367	1.000	-0.14

Extremity SAR Test																			
System & Position								DUT & Accessory				Power							
Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Time-Up Limit (dBm)	Time-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Right Side	0mm	Ant 9+1(1)		DSI 6		518598	2592.99		17.51	19.50	1.581	1.000	0.07
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Top Side	0mm	Ant 9+1(1)		DSI 6		518598	2592.99		17.51	19.50	1.581	1.000	0.02
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Left Side	0mm	Ant 2+6(6)		DSI 6		518598	2592.99		17.58	18.50	1.236	1.000	-0.15
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Left Side	0mm	Ant 2+6(6)		DSI 6		518598	2592.99		17.58	18.50	1.236	1.000	0.05
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Back	0mm	Ant 4+7(4)		DSI 6		641666	3624.99		17.58	18.00	1.102	1.000	-0.06
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Back	0mm	Ant 4+7(4)		DSI 6		641666	3624.99		17.58	18.00	1.102	1.000	-0.08
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Back	0mm	Ant 10+8(10)		DSI 6		641666	3624.99		15.33	16.00	1.167	1.000	0
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Top Side	0mm	Ant 10+8(10)		DSI 6		641666	3624.99		15.33	16.00	1.167	1.000	0.15
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Back	0mm	Ant 4+7(4)		DSI 6		656000	3840		17.38	18.50	1.294	1.000	0.12
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Back	0mm	Ant 4+7(4)		DSI 6		656000	3840		17.38	18.50	1.294	1.000	-0.16
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Back	0mm	Ant 10+8(10)		DSI 6		656000	3840		14.75	16.00	1.334	1.000	-0.11
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Top Side	0mm	Ant 10+8(10)		DSI 6		656000	3840		14.75	16.00	1.334	1.000	-0.13

Body worn SAR Test																			
System & Position								DUT & Accessory				Power							
Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Power Reduction	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Time-Up Limit (dBm)	Time-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Back	5mm	Ant 9+1(1)		DSI 3		518598	2592.99		14.66	16.50	1.528	1.000	-0.01
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Back	5mm	Ant 9+1(1)		DSI 3		518598	2592.99		14.66	16.50	1.528	1.000	0.09
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Back	5mm	Ant 2+6(6)		DSI 3		518598	2592.99		18.12	19.00	1.225	1.000	-0.13
UL MIMO_FR1 n41	100M	QPSK	1	1	CP-30	Back	5mm	Ant 2+6(6)		DSI 3		518598	2592.99		18.12	19.00	1.225	1.000	0.11
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Back	5mm	Ant 4+7(4)		DSI 3		641666	3624.99		14.18	15.50	1.355	1.000	-0.01
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Back	5mm	Ant 4+7(4)		DSI 3		641666	3624.99		14.18	15.50	1.355	1.000	0.15
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Back	5mm	Ant 10+8(10)		DSI 3		641666	3624.99		10.66	11.50	1.213	1.000	-0.11
UL MIMO_FR1 n48	40M	QPSK	1	1	CP-30	Back	5mm	Ant 10+8(10)		DSI 3		641666	3624.99		10.66	11.50	1.213	1.000	0.17
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Back	5mm	Ant 4+7(4)		DSI 3		656000	3840		16.22	17.00	1.197	1.000	0.09
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Back	5mm	Ant 4+7(4)		DSI 3		656000	3840		16.22	17.00	1.197	1.000	0.12
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Back	5mm	Ant 10+8(10)		DSI 3		656000	3840		11.22	12.50	1.343	1.000	0.05
UL MIMO_FR1 n77	100M	QPSK	1	1	CP-30	Back	5mm	Ant 10+8(10)		DSI 3		656000	3840		11.22	12.50	1.343	1.000	0.19



MIMO SAR conducted power

UL MIMO_N48 DSI 2				Ant 4			Ant 7			Ant 4+7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.
Channel				638000	641666	645332	638000	641666	645332	638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98	3570	3624.99	3679.98	3570	3624.99	3679.98
100	QPSK	1	1	17.38	17.44	17.31	17.85	17.93	17.88	20.63	20.70	20.61

UL MIMO_N48 DSI 3				Ant 4			Ant 7			Ant 4+7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.
Channel				638000	641666	645332	638000	641666	645332	638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98	3570	3624.99	3679.98	3570	3624.99	3679.98
100	QPSK	1	1	14.10	14.18	14.03	14.57	14.65	14.60	17.35	17.43	17.33

UL MIMO_N48 DSI 6				Ant 4			Ant 7			Ant 4+7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.
Channel				638000	641666	645332	638000	641666	645332	638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98	3570	3624.99	3679.98	3570	3624.99	3679.98
100	QPSK	1	1	17.38	17.58	17.31	17.85	17.93	17.88	20.63	20.77	20.61

UL MIMO_N48 DSI 7				Ant 4			Ant 7			Ant 4+7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.
Channel				638000	641666	645332	638000	641666	645332	638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98	3570	3624.99	3679.98	3570	3624.99	3679.98
100	QPSK	1	1	12.10	12.48	12.03	12.57	12.65	12.60	15.35	15.59	15.33

UL MIMO_N48(HPUE) DSI 2				Ant 10			Ant 8			Ant 10+8		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.
Channel				638000	641666	645332	638000	641666	645332	638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98	3570	3624.99	3679.98	3570	3624.99	3679.98
100	QPSK	1	1	16.78	16.82	16.66	16.38	16.46	16.42	19.59	19.65	19.55

UL MIMO_N48(HPUE) DSI 3				Ant 10			Ant 8			Ant 10+8		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.
Channel				638000	641666	645332	638000	641666	645332	638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98	3570	3624.99	3679.98	3570	3624.99	3679.98
100	QPSK	1	1	10.52	10.66	10.48	10.67	10.69	10.58	13.61	13.69	13.54

UL MIMO_N48(HPUE) DSI 6				Ant 10			Ant 8			Ant 10+8		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.
Channel				638000	641666	645332	638000	641666	645332	638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98	3570	3624.99	3679.98	3570	3624.99	3679.98
100	QPSK	1	1	15.00	15.33	14.96	15.15	15.17	15.06	18.09	18.26	18.02

UL MIMO_N48(HPUE) DSI 7				Ant 10			Ant 8			Ant 10+8		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.
Channel				638000	641666	645332	638000	641666	645332	638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98	3570	3624.99	3679.98	3570	3624.99	3679.98
100	QPSK	1	1	9.79	9.94	9.75	9.94	9.96	9.85	12.88	12.96	12.81



UL MIMO_n41 DSI 2				Ant 9			Ant 1			Ant 9+1		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				509202	518598	528000	509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640	2546.01	2592.99	2640	2546.01	2592.99	2640
100	QPSK	1	1	14.79	14.81	14.67	14.35	14.38	14.29	17.59	17.61	17.49

UL MIMO_n41 DSI 3				Ant 9			Ant 1			Ant 9+1		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				509202	518598	528000	509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640	2546.01	2592.99	2640	2546.01	2592.99	2640
100	QPSK	1	1	15.26	15.28	15.14	14.51	14.60	14.55	17.91	17.99	17.87

UL MIMO_n41 DSI 6				Ant 9			Ant 1			Ant 9+1		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				509202	518598	528000	509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640	2546.01	2592.99	2640	2546.01	2592.99	2640
100	QPSK	1	1	18.05	18.07	17.93	17.30	17.51	17.34	20.70	20.81	20.66

UL MIMO_n41 DSI 7				Ant 9			Ant 1			Ant 9+1		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				509202	518598	528000	509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640	2546.01	2592.99	2640	2546.01	2592.99	2640
100	QPSK	1	1	14.19	14.21	14.07	13.44	13.67	13.48	16.84	16.96	16.80

UL MIMO_n41 DSI 2				Ant 2			Ant 6			Ant 2+6		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				509202	518598	528000	509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640	2546.01	2592.99	2640	2546.01	2592.99	2640
100	QPSK	1	1	19.54	19.60	19.52	19.08	19.21	19.13	22.33	22.42	22.34

UL MIMO_n41 DSI 3				Ant 2			Ant 6			Ant 2+6		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				509202	518598	528000	509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640	2546.01	2592.99	2640	2546.01	2592.99	2640
100	QPSK	1	1	18.53	18.59	18.51	18.07	18.12	18.12	21.32	21.37	21.33

UL MIMO_n41 DSI 6				Ant 2			Ant 6			Ant 2+6		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				509202	518598	528000	509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640	2546.01	2592.99	2640	2546.01	2592.99	2640
100	QPSK	1	1	18.00	18.06	17.98	17.45	17.58	17.50	20.74	20.84	20.76

UL MIMO_n41 DSI 7				Ant 2			Ant 6			Ant 2+6		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				509202	518598	528000	509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640	2546.01	2592.99	2640	2546.01	2592.99	2640
100	QPSK	1	1	15.05	15.11	15.03	14.50	14.63	14.55	17.79	17.89	17.81

