

Power Level E1							
NR n2 Tune up: 23.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	21.94
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	21.88
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	21.62
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900	380000	21.86
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	21.87
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	21.79
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1907.5	381500	21.96
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1907.5	381500	21.89
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1907.5	381500	20.38
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1907.5	381500	18.34
15	5	CP-OFDM QPSK	Inner_Full	13@6	1907.5	381500	21.35
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1907.5	381500	20.92
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1907.5	381500	19.34
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1907.5	381500	16.25
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	1907.5	381500	21.90
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	1907.5	381500	21.92
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	1907.5	381500	21.92
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	1907.5	381500	21.84
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	1907.5	381500	21.87
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	1905	381000	21.77
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1902.5	380500	21.84

Power Level F1							
NR n2 Tune up: 13.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	11.75
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	11.68
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	11.76
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900	380000	11.66
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	11.68
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	11.76
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1907.5	381500	11.78
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1907.5	381500	11.74
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1907.5	381500	11.70
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1907.5	381500	11.74
15	5	CP-OFDM QPSK	Inner_Full	13@6	1907.5	381500	11.69
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1907.5	381500	11.77
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1907.5	381500	11.71
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1907.5	381500	11.67
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	1907.5	381500	11.68
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	1907.5	381500	11.73
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	1907.5	381500	11.73
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	1907.5	381500	11.74
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	1907.5	381500	11.70
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	1905	381000	11.55
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1902.5	380500	11.67

Power Level A1							
NR n25 Tune up: 24.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	22.83
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	22.75
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	22.79
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1895	379000	22.75
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1882.5	376500	22.72
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1870	374000	22.71
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1912.5	382500	22.86
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1912.5	382500	21.93
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1912.5	382500	20.38
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1912.5	382500	18.41
15	5	CP-OFDM QPSK	Inner_Full	13@6	1912.5	382500	21.41
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1912.5	382500	21.00
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1912.5	382500	19.42
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1912.5	382500	16.28
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	1912.5	382500	22.26
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	1912.5	382500	22.23
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	1912.5	382500	22.80
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	1912.5	382500	22.78
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	1912.5	382500	22.32
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	1910	382000	22.67
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1907.5	381500	22.82
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1905	381000	22.85
15	25	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	1902.5	380500	22.81
15	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	80@40	1900	380000	22.78

Power Level B1							
NR n25 Tune up: 15.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	13.84
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	13.80
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	13.81
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1895	379000	13.64
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1882.5	376500	13.63
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1870	374000	13.70
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1912.5	382500	13.85
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1912.5	382500	13.74
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1912.5	382500	13.71
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1912.5	382500	13.73
15	5	CP-OFDM QPSK	Inner_Full	13@6	1912.5	382500	13.69
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1912.5	382500	13.80
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1912.5	382500	13.73
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1912.5	382500	13.68
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	1912.5	382500	13.67
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	1912.5	382500	13.70
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	1912.5	382500	13.71
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	1912.5	382500	13.70
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	1912.5	382500	13.72
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	1910	382000	13.58
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1907.5	381500	13.69
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1905	381000	13.72
15	25	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	1902.5	380500	13.68
15	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	80@40	1900	380000	13.63

Power Level E1							
NR n25 Tune up: 23.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	21.83
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	21.82
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	21.69
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1895	379000	21.71
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1882.5	376500	21.69
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1870	374000	21.72
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1912.5	382500	21.85
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1912.5	382500	21.72
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1912.5	382500	20.24
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1912.5	382500	18.17
15	5	CP-OFDM QPSK	Inner_Full	13@6	1912.5	382500	21.24
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1912.5	382500	20.81
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1912.5	382500	19.23
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1912.5	382500	16.09
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	1912.5	382500	21.70
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	1912.5	382500	21.71
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	1912.5	382500	21.74
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	1912.5	382500	21.72
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	1912.5	382500	21.78
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	1910	382000	21.59
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1907.5	381500	21.74
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1905	381000	21.77
15	25	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	1902.5	380500	21.73
15	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	80@40	1900	380000	21.73

Power Level F1							
NR n25 Tune up: 13.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	11.83
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	11.79
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	11.80
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1895	379000	11.63
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1882.5	376500	11.62
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1870	374000	11.69
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1912.5	382500	11.89
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1912.5	382500	11.73
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1912.5	382500	11.70
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1912.5	382500	11.72
15	5	CP-OFDM QPSK	Inner_Full	13@6	1912.5	382500	11.68
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1912.5	382500	11.79
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1912.5	382500	11.72
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1912.5	382500	11.67
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	1912.5	382500	11.66
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	1912.5	382500	11.69
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	1912.5	382500	11.70
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	1912.5	382500	11.69
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	1912.5	382500	11.71
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	1910	382000	11.50
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1907.5	381500	11.61
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1905	381000	11.64
15	25	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	1902.5	380500	11.60
15	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	80@40	1900	380000	11.55

Power Level A1 - (PC3)							
NR n41 Tune up: 24.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2685	537000	21.83
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2638.995	527799	22.80
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	22.74
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2547	509400	22.41
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2501.01	500202	22.58
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	22.61
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.50	523299	22.55
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	22.74
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.50	513900	23.24
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	23.50
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	2546.01	509202	23.53
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2546.01	509202	22.34
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2546.01	509202	20.82
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2546.01	509202	18.66
30	100	CP-OFDM QPSK	Inner_Full	135@67	2546.01	509202	21.77
30	100	CP-OFDM 16QAM	Inner_Full	135@67	2546.01	509202	21.20
30	100	CP-OFDM 64QAM	Inner_Full	135@67	2546.01	509202	19.71
30	100	CP-OFDM 256QAM	Inner_Full	135@67	2546.01	509202	16.75
30	100	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@271	2546.01	509202	18.82
30	100	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	2546.01	509202	18.93
30	100	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@271	2546.01	509202	22.53
30	100	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	2546.01	509202	22.63
30	100	DFT-s-OFDM PI/2 BPSK	Outer_Full	270@0	2546.01	509202	22.70
30	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	18@9	2503.5	500700	22.34
30	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	2506.02	501204	22.42
30	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	2511	502200	23.34
30	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	2516.01	503202	23.43
30	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	2521.02	504204	23.44
30	60	DFT-s-OFDM PI/2 BPSK	Inner_Full	81@40	2526	505200	23.28
30	80	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	2536.02	507204	23.37
30	90	DFT-s-OFDM PI/2 BPSK	Inner_Full	120@60	2541	508200	23.34

Power Level B1 - (PC3)							
NR n41 Tune up: 12.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685	537000	11.07
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2638.995	527799	10.98
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	10.84
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2547	509400	11.23
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	10.40
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	11.19
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.50	523299	11.24
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	11.23
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.50	513900	11.23
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	11.37
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	2546.01	509202	11.41
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2546.01	509202	11.20
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2546.01	509202	11.21
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2546.01	509202	11.07
30	100	CP-OFDM QPSK	Inner_Full	135@67	2546.01	509202	11.20
30	100	CP-OFDM 16QAM	Inner_Full	135@67	2546.01	509202	11.12
30	100	CP-OFDM 64QAM	Inner_Full	135@67	2546.01	509202	11.16
30	100	CP-OFDM 256QAM	Inner_Full	135@67	2546.01	509202	11.23
30	100	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@271	2546.01	509202	10.50
30	100	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	2546.01	509202	10.56
30	100	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@271	2546.01	509202	10.57
30	100	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	2546.01	509202	10.62
30	100	DFT-s-OFDM PI/2 BPSK	Outer_Full	270@0	2546.01	509202	11.05
30	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	18@9	2503.5	500700	10.19
30	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	2506.02	501204	10.27
30	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	2511	502200	11.16
30	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	2516.01	503202	11.28
30	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	2521.02	504204	11.29
30	60	DFT-s-OFDM PI/2 BPSK	Inner_Full	81@40	2526	505200	11.13
30	80	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	2536.02	507204	11.22
30	90	DFT-s-OFDM PI/2 BPSK	Inner_Full	120@60	2541	508200	11.25

Power Level A1/E1 - (PC2)							
NR n41 Tune up: 27.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2685	537000	25.12
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2638.995	527799	25.96
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	25.87
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2547	509400	25.72
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2501.01	500202	25.73
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	25.90
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.50	523299	25.71
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	25.87
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.50	513900	26.35
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	26.65
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	2546.01	509202	26.79
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2546.01	509202	25.50
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2546.01	509202	23.95
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2546.01	509202	21.97
30	100	CP-OFDM QPSK	Inner_Full	135@67	2546.01	509202	24.92
30	100	CP-OFDM 16QAM	Inner_Full	135@67	2546.01	509202	24.49
30	100	CP-OFDM 64QAM	Inner_Full	135@67	2546.01	509202	22.87
30	100	CP-OFDM 256QAM	Inner_Full	135@67	2546.01	509202	19.88
30	100	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@271	2546.01	509202	22.03
30	100	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	2546.01	509202	22.08
30	100	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@271	2546.01	509202	25.82
30	100	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	2546.01	509202	25.79
30	100	DFT-s-OFDM PI/2 BPSK	Outer_Full	270@0	2546.01	509202	25.83
30	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	18@9	2503.5	500700	25.65
30	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	2506.02	501204	25.57
30	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	2511	502200	26.63
30	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	2516.01	503202	26.59
30	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	2521.02	504204	26.57
30	60	DFT-s-OFDM PI/2 BPSK	Inner_Full	81@40	2526	505200	26.49
30	80	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	2536.02	507204	26.52
30	90	DFT-s-OFDM PI/2 BPSK	Inner_Full	120@60	2541	508200	26.55

Power Level B1 - (PC2)							
NR n41 Tune up: 15.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685	537000	14.26
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2638.995	527799	14.14
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	13.97
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2547	509400	14.34
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	13.55
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	14.38
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.50	523299	14.40
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	14.36
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.50	513900	14.34
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	14.42
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	2546.01	509202	14.47
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2546.01	509202	14.36
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2546.01	509202	14.34
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2546.01	509202	14.38
30	100	CP-OFDM QPSK	Inner_Full	135@67	2546.01	509202	14.35
30	100	CP-OFDM 16QAM	Inner_Full	135@67	2546.01	509202	14.41
30	100	CP-OFDM 64QAM	Inner_Full	135@67	2546.01	509202	14.32
30	100	CP-OFDM 256QAM	Inner_Full	135@67	2546.01	509202	14.36
30	100	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@271	2546.01	509202	13.71
30	100	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	2546.01	509202	13.71
30	100	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@271	2546.01	509202	13.76
30	100	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	2546.01	509202	13.78
30	100	DFT-s-OFDM PI/2 BPSK	Outer_Full	270@0	2546.01	509202	14.18
30	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	18@9	2503.5	500700	13.50
30	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	2506.02	501204	13.42
30	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	2511	502200	14.45
30	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	2516.01	503202	14.44
30	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	2521.02	504204	14.42
30	60	DFT-s-OFDM PI/2 BPSK	Inner_Full	81@40	2526	505200	14.34
30	80	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	2536.02	507204	14.37
30	90	DFT-s-OFDM PI/2 BPSK	Inner_Full	120@60	2541	508200	14.36

Power Level F1 - (PC2)							
NR n41 Tune up: 13.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685	537000	12.30
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2638.995	527799	12.18
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	12.01
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2547	509400	12.38
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	11.89
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	12.42
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.50	523299	12.44
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	12.40
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.50	513900	12.38
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	12.46
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	2546.01	509202	12.51
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2546.01	509202	12.40
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2546.01	509202	12.38
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2546.01	509202	12.42
30	100	CP-OFDM QPSK	Inner_Full	135@67	2546.01	509202	12.39
30	100	CP-OFDM 16QAM	Inner_Full	135@67	2546.01	509202	12.45
30	100	CP-OFDM 64QAM	Inner_Full	135@67	2546.01	509202	12.36
30	100	CP-OFDM 256QAM	Inner_Full	135@67	2546.01	509202	12.40
30	100	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@271	2546.01	509202	11.75
30	100	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	2546.01	509202	11.75
30	100	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@271	2546.01	509202	11.80
30	100	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	2546.01	509202	11.82
30	100	DFT-s-OFDM PI/2 BPSK	Outer_Full	270@0	2546.01	509202	12.22
30	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	18@9	2503.5	500700	11.54
30	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	2506.02	501204	11.46
30	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	2511	502200	12.49
30	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	2516.01	503202	12.48
30	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	2521.02	504204	12.46
30	60	DFT-s-OFDM PI/2 BPSK	Inner_Full	81@40	2526	505200	12.38
30	80	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	2536.02	507204	12.41
30	90	DFT-s-OFDM PI/2 BPSK	Inner_Full	120@60	2541	508200	12.40

Power Level A1/E1							
NR n66 Tune up: 23.5							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	22.76
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	22.72
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	22.62
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760	352000	22.63
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	349000	22.61
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730	346000	22.60
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1777.5	355500	22.78
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1777.5	355500	21.87
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1777.5	355500	20.32
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1777.5	355500	18.34
15	5	CP-OFDM QPSK	Inner_Full	13@6	1777.5	355500	21.32
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1777.5	355500	20.91
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1777.5	355500	19.33
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1777.5	355500	16.23
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	1777.5	355500	22.19
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	1777.5	355500	22.24
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	1777.5	355500	22.69
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	1777.5	355500	22.71
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	1777.5	355500	22.26
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	1775	355000	22.51
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1772.5	354500	22.73
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1770	354000	22.75
15	25	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	1767.5	353500	22.67
15	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	80@40	1765	353000	22.62

Power Level B1							
NR n66 Tune up: 15.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	13.76
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	13.73
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	13.70
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760	352000	13.70
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	349000	13.62
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730	346000	13.69
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1777.5	355500	13.78
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1777.5	355500	13.71
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1777.5	355500	13.69
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1777.5	355500	13.71
15	5	CP-OFDM QPSK	Inner_Full	13@6	1777.5	355500	13.69
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1777.5	355500	13.73
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1777.5	355500	13.70
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1777.5	355500	13.72
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	1777.5	355500	13.66
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	1777.5	355500	13.77
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	1777.5	355500	13.70
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	1777.5	355500	13.74
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	1777.5	355500	13.73
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	1775	355000	13.57
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1772.5	354500	13.77
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1770	354000	13.76
15	25	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	1767.5	353500	13.73
15	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	80@40	1765	353000	13.71

Power Level F1							
NR n66 Tune up: 13.5							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	12.25
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	12.23
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	12.23
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760	352000	12.23
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	349000	12.15
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730	346000	12.22
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1777.5	355500	12.27
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1777.5	355500	12.20
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1777.5	355500	12.18
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1777.5	355500	12.20
15	5	CP-OFDM QPSK	Inner_Full	13@6	1777.5	355500	12.18
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1777.5	355500	12.22
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1777.5	355500	12.19
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1777.5	355500	12.21
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	1777.5	355500	12.15
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	1777.5	355500	12.26
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	1777.5	355500	12.19
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	1777.5	355500	12.23
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	1777.5	355500	12.22
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	1775	355000	12.00
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1772.5	354500	12.20
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1770	354000	12.19
15	25	DFT-s-OFDM PI/2 BPSK	Inner_Full	64@32	1767.5	353500	12.16
15	30	DFT-s-OFDM PI/2 BPSK	Inner_Full	80@40	1765	353000	12.14

Power Level A1/E1							
NR n71 Tune up: 24.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	695.5	139100	23.00
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	680.5	136100	22.95
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	665.5	133100	22.97
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	688	137600	22.90
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	680.5	136100	22.92
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	673	134600	22.94
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	695.5	139100	23.03
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	695.5	139100	21.97
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	695.5	139100	20.43
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	695.5	139100	18.59
15	5	CP-OFDM QPSK	Inner_Full	13@6	695.5	139100	21.40
15	5	CP-OFDM 16QAM	Inner_Full	13@6	695.5	139100	20.98
15	5	CP-OFDM 64QAM	Inner_Full	13@6	695.5	139100	19.56
15	5	CP-OFDM 256QAM	Inner_Full	13@6	695.5	139100	16.44
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	695.5	139100	22.44
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	695.5	139100	22.42
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	695.5	139100	22.94
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	695.5	139100	22.89
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	695.5	139100	22.48
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	693	138600	22.77
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	690.5	138100	22.93

Power Level B1							
NR n71 Tune up: 20.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	695.5	139100	18.82
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	680.5	136100	18.75
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	665.5	133100	18.77
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	688	137600	18.72
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	680.5	136100	18.71
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	673	134600	18.79
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	695.5	139100	18.84
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	695.5	139100	18.71
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	695.5	139100	18.72
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	695.5	139100	18.22
15	5	CP-OFDM QPSK	Inner_Full	13@6	695.5	139100	18.69
15	5	CP-OFDM 16QAM	Inner_Full	13@6	695.5	139100	18.72
15	5	CP-OFDM 64QAM	Inner_Full	13@6	695.5	139100	18.64
15	5	CP-OFDM 256QAM	Inner_Full	13@6	695.5	139100	16.26
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	695.5	139100	18.68
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	695.5	139100	18.68
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	695.5	139100	18.75
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	695.5	139100	18.69
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	695.5	139100	18.73
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	693	138600	18.56
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	690.5	138100	18.70

Power Level F1							
NR n71 Tune up: 18.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	695.5	139100	16.75
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	680.5	136100	16.68
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	665.5	133100	16.70
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	688	137600	16.72
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	680.5	136100	16.71
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	673	134600	16.79
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	695.5	139100	16.81
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	695.5	139100	16.68
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	695.5	139100	16.69
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	695.5	139100	16.19
15	5	CP-OFDM QPSK	Inner_Full	13@6	695.5	139100	16.66
15	5	CP-OFDM 16QAM	Inner_Full	13@6	695.5	139100	16.68
15	5	CP-OFDM 64QAM	Inner_Full	13@6	695.5	139100	16.60
15	5	CP-OFDM 256QAM	Inner_Full	13@6	695.5	139100	14.22
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Right	2@23	695.5	139100	16.64
15	5	DFT-s-OFDM PI/2 BPSK	Edge_Full _Left	2@0	695.5	139100	16.65
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Right	1@23	695.5	139100	16.69
15	5	DFT-s-OFDM PI/2 BPSK	Inner_1RB _Left	1@1	695.5	139100	16.63
15	5	DFT-s-OFDM PI/2 BPSK	Outer_Full	25@0	695.5	139100	16.69
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	693	138600	16.50
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	690.5	138100	16.64

Part 27Q - Power Level A1 - (PC3)							
NR n77 Tune up: 23.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	21.85
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	22.07
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	21.80
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	21.83
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	21.92
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	22.10
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	21.83
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	20.60
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	18.52
30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	21.55
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	21.14
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	19.42
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	16.55
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Right	2@49	3500.01	633334	19.39
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Left	2@0	3500.01	633334	19.40
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Right	1@49	3500.01	633334	21.84
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Left	1@1	3500.01	633334	21.79
30	20	DFT-s-OFDM PI/2 BPSK1	Outer_Full	50@0	3500.01	633334	21.77
30	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	3500.01	633334	21.70
30	50	DFT-s-OFDM PI/2 BPSK1	Inner_Full	64@32	3500.01	633334	21.75
30	60	DFT-s-OFDM PI/2 BPSK1	Inner_Full	81@40	3500.01	633334	21.61
30	80	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108@54	3500.01	633334	21.68
30	90	DFT-s-OFDM PI/2 BPSK1	Inner_Full	120@60	3500.01	633334	21.47

Part 27Q - Power Level B1 - (PC3)							
NR n77 Tune up: 7.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	5.75
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	5.97
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	5.87
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	5.86
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	5.83
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	6.13
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	5.91
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	5.82
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	5.93
30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	5.77
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	5.90
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	5.73
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	5.79
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Right	2@49	3500.01	633334	5.71
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Left	2@0	3500.01	633334	5.73
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Right	1@49	3500.01	633334	5.68
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Left	1@1	3500.01	633334	5.65
30	20	DFT-s-OFDM PI/2 BPSK1	Outer_Full	50@0	3500.01	633334	5.84
30	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	3500.01	633334	5.84
30	50	DFT-s-OFDM PI/2 BPSK1	Inner_Full	64@32	3500.01	633334	5.86
30	60	DFT-s-OFDM PI/2 BPSK1	Inner_Full	81@40	3500.01	633334	5.86
30	80	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108@54	3500.01	633334	5.89
30	90	DFT-s-OFDM PI/2 BPSK1	Inner_Full	120@60	3500.01	633334	5.86

Part 270 - Power Level A1 - (PC3)							
NR n77 Tune up: 23.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	22.03
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	21.86
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	21.67
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	22.00
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	22.44
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	22.22
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	21.84
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	21.35
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	21.51
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	21.60
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	21.76
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	21.94
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3762.000	650800	22.45
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3762.000	650800	21.96
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3762.000	650800	20.62
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3762.000	650800	18.53
30	20	CP-OFDM QPSK	Inner_Full	25@12	3762.000	650800	21.63
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3762.000	650800	21.14
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3762.000	650800	19.42
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3762.000	650800	16.46
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Right	2@49	3762.000	650800	19.37
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Left	2@0	3762.000	650800	19.30
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Right	1@49	3762.000	650800	22.10
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Left	1@1	3762.000	650800	22.23
30	20	DFT-s-OFDM PI/2 BPSK1	Outer_Full	50@0	3762.000	650800	22.24
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_1RB _Left	1@0	3762.000	650800	19.42
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_1RB _Right	1@50	3762.000	650800	19.36
30	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	3768.000	651200	22.09
30	50	DFT-s-OFDM PI/2 BPSK1	Inner_Full	64@32	3771.000	651400	22.22
30	60	DFT-s-OFDM PI/2 BPSK1	Inner_Full	81@40	3774.000	651600	22.13
30	80	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108@54	3780.000	652000	22.16
30	90	DFT-s-OFDM PI/2 BPSK1	Inner_Full	120@60	3783.000	652200	21.87

Part 270 - Power Level B1 - (PC3)							
NR n77 Tune up: 7.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	6.09
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	5.94
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	6.05
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	5.92
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	6.11
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	6.09
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	5.88
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	5.98
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	5.81
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	5.96
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	6.05
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	6.05
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3762.000	650800	6.13
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3762.000	650800	6.06
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3762.000	650800	6.05
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3762.000	650800	6.06
30	20	CP-OFDM QPSK	Inner_Full	25@12	3762.000	650800	5.94
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3762.000	650800	6.05
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3762.000	650800	5.94
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3762.000	650800	6.02
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Right	2@49	3762.000	650800	5.92
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Left	2@0	3762.000	650800	5.96
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Right	1@49	3762.000	650800	5.79
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Left	1@1	3762.000	650800	5.87
30	20	DFT-s-OFDM PI/2 BPSK1	Outer_Full	50@0	3762.000	650800	5.99
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_1RB _Left	1@0	3762.000	650800	5.85
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_1RB _Right	1@50	3762.000	650800	5.80
30	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	3768.000	651200	6.06
30	50	DFT-s-OFDM PI/2 BPSK1	Inner_Full	64@32	3771.000	651400	6.10
30	60	DFT-s-OFDM PI/2 BPSK1	Inner_Full	81@40	3774.000	651600	6.11
30	80	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108@54	3780.000	652000	6.06
30	90	DFT-s-OFDM PI/2 BPSK1	Inner_Full	120@60	3783.000	652200	6.08

Part 27Q - Power Level A1 - (PC2)							
NR n77 Tune up: 26.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	24.94
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	25.04
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	24.85
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	24.84
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	24.93
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	25.12
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	24.94
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	23.65
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	21.71
30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	24.61
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	24.17
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	22.53
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	19.60
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Right	2@49	3500.01	633334	22.48
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Left	2@0	3500.01	633334	22.46
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Right	1@49	3500.01	633334	24.89
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Left	1@1	3500.01	633334	24.98
30	20	DFT-s-OFDM PI/2 BPSK1	Outer_Full	50@0	3500.01	633334	24.83
30	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	3500.01	633334	24.75
30	50	DFT-s-OFDM PI/2 BPSK1	Inner_Full	64@32	3500.01	633334	24.78
30	60	DFT-s-OFDM PI/2 BPSK1	Inner_Full	81@40	3500.01	633334	24.72
30	80	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108@54	3500.01	633334	24.73
30	90	DFT-s-OFDM PI/2 BPSK1	Inner_Full	120@60	3500.01	633334	24.56

Part 27Q - Power Level B1 - (PC2)							
NR n77 Tune up: 10.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	8.84
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	8.97
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	8.90
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	8.87
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	8.88
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	9.07
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	8.91
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	8.85
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	8.94
30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	8.82
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	8.90
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	8.76
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	8.80
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Right	2@49	3500.01	633334	8.76
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Left	2@0	3500.01	633334	8.73
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Right	1@49	3500.01	633334	8.71
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Left	1@1	3500.01	633334	8.66
30	20	DFT-s-OFDM PI/2 BPSK1	Outer_Full	50@0	3500.01	633334	8.89
30	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	3500.01	633334	8.84
30	50	DFT-s-OFDM PI/2 BPSK1	Inner_Full	64@32	3500.01	633334	8.89
30	60	DFT-s-OFDM PI/2 BPSK1	Inner_Full	81@40	3500.01	633334	8.87
30	80	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108@54	3500.01	633334	8.94
30	90	DFT-s-OFDM PI/2 BPSK1	Inner_Full	120@60	3500.01	633334	8.89

Part 270 - Power Level A1 - (PC2)							
NR n77 Tune up: 26.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	25.22
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	25.02
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	24.80
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	25.11
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	25.43
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	25.41
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	25.00
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	24.48
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	24.62
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	24.76
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	24.89
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	25.15
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3762.000	650800	25.46
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3762.000	650800	25.17
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3762.000	650800	23.67
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3762.000	650800	21.72
30	20	CP-OFDM QPSK	Inner_Full	25@12	3762.000	650800	24.69
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3762.000	650800	24.17
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3762.000	650800	22.53
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3762.000	650800	19.67
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Right	2@49	3762.000	650800	22.42
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Left	2@0	3762.000	650800	22.49
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Right	1@49	3762.000	650800	25.16
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Left	1@1	3762.000	650800	25.26
30	20	DFT-s-OFDM PI/2 BPSK1	Outer_Full	50@0	3762.000	650800	25.35
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_1RB _Left	1@0	3762.000	650800	22.47
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_1RB _Right	1@50	3762.000	650800	22.37
30	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	3768.000	651200	25.15
30	50	DFT-s-OFDM PI/2 BPSK1	Inner_Full	64@32	3771.000	651400	25.25
30	60	DFT-s-OFDM PI/2 BPSK1	Inner_Full	81@40	3774.000	651600	25.24
30	80	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108@54	3780.000	652000	25.21
30	90	DFT-s-OFDM PI/2 BPSK1	Inner_Full	120@60	3783.000	652200	24.93

Part 270 - Power Level B1 - (PC2)							
NR n77 Tune up: 10.0							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	9.12
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	9.05
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	9.10
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	9.01
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	9.17
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	9.12
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	9.09
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	9.03
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	9.00
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	9.02
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	9.08
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	9.16
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3762.000	650800	9.19
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3762.000	650800	9.09
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3762.000	650800	9.06
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3762.000	650800	9.11
30	20	CP-OFDM QPSK	Inner_Full	25@12	3762.000	650800	9.03
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3762.000	650800	9.11
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3762.000	650800	8.97
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3762.000	650800	9.03
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Right	2@49	3762.000	650800	8.87
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_Full _Left	2@0	3762.000	650800	8.92
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Right	1@49	3762.000	650800	8.85
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_1RB _Left	1@1	3762.000	650800	8.90
30	20	DFT-s-OFDM PI/2 BPSK1	Outer_Full	50@0	3762.000	650800	9.10
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_1RB _Left	1@0	3762.000	650800	8.90
30	20	DFT-s-OFDM PI/2 BPSK1	Edge_1RB _Right	1@50	3762.000	650800	8.86
30	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	3768.000	651200	9.09
30	50	DFT-s-OFDM PI/2 BPSK1	Inner_Full	64@32	3771.000	651400	9.11
30	60	DFT-s-OFDM PI/2 BPSK1	Inner_Full	81@40	3774.000	651600	9.06
30	80	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108@54	3780.000	652000	9.09
30	90	DFT-s-OFDM PI/2 BPSK1	Inner_Full	120@60	3783.000	652200	9.11

10.5. WLAN and Bluetooth Measurement result

Table 10.4: The conducted Power measurement results for Bluetooth

Averaged Power (dBm)				
Mode	Tune up	Ch.0 (2402MHz)	Ch.39 (2441MHz)	Ch.78 (2480MHz)
GFSK	12.5	10.29	10.93	11.59
EDR2M-4_DQPSK	12.5	9.97	10.11	10.73
EDR3M-8DPSK	12.5	9.82	9.96	10.59
/	/	Ch.0 (2402MHz)	Ch.19 (2440MHz)	Ch.39 (2480MHz)
BLE(1M)	2.5	0.73	2.15	1.99
BLE(2M)	2.5	0.70	2.11	1.97

Table 10.5: The conducted Power measurement results for WLAN 2.4GHz

Power Level G1				
Averaged Power (dBm) Duty Cycle: 100%				
Mode	Tune up	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)
802.11b	20.0	18.84	18.68	18.38
802.11g	19.0	17.61	17.37	16.38
802.11n(20MHz)	18.0	16.56	16.35	16.26
/	/	Ch.3 (2422MHz)	Ch.6 (2437MHz)	Ch.9 (2452MHz)
802.11n(40MHz)	17.0	13.98	15.53	13.52
Power Level H1				
Averaged Power (dBm) Duty Cycle: 100%				
Mode	Tune up	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)
802.11b	14.0	13.04	12.86	12.62
802.11g	14.0	12.92	12.74	12.60
802.11n(20MHz)	14.0	12.78	12.65	12.41
/	/	Ch.3 (2422MHz)	Ch.6 (2437MHz)	Ch.9 (2452MHz)
802.11n(40MHz)	14.0	12.89	12.71	12.49

Table 10.6: The conducted Power measurement results for WLAN 5GHz

Power Level G1								
Averaged Power (dBm) Duty Cycle: 100%								
Mode	802.11a	802.11n -20MHz	802.11ac -20MHz	Mode	802.11n -40MHz	802.11ac -40MHz	Mode	802.11ac -80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	18.0	17.5	18.0	/	14.0	15.0	/	14.0
36(5180MHz)	17.03	16.38	16.93	38(5190MHz)	12.46	13.49	42(5210MHz)	12.31
40(5200MHz)	17.01	16.47	16.96	46(5230MHz)	12.58	13.56	/	/
44(5220MHz)	17.10	16.53	17.01	/	/	/	/	/
48(5240MHz)	17.16	16.59	17.05	/	/	/	/	/
<U-NII-2A>								
Tune up	18.0	17.5	18.0	/	14.0	15.0	/	14.0
52(5260MHz)	17.20	16.62	17.15	54(5270MHz)	12.79	13.69	58(5290MHz)	12.47
56(5280MHz)	17.28	16.64	17.13	62(5310MHz)	12.87	13.82	/	/
60(5300MHz)	17.31	16.69	17.19	/	/	/	/	/
64(5320MHz)	17.37	16.66	17.13	/	/	/	/	/
<U-NII-2C>								
Tune up	18.0	17.5	18.0	/	14.0	15.0	/	14.0
100(5500MHz)	17.70	17.15	17.60	102(5510MHz)	13.16	14.24	106(5530MHz)	12.94
116(5580MHz)	17.72	17.14	17.63	110(5550MHz)	13.19	14.16	122(5610MHz)	12.91
124(5620MHz)	17.76	17.52	17.63	126(5630MHz)	13.17	14.25	138(5690MHz)	13.05
132(5660MHz)	17.87	17.18	17.65	134(5670MHz)	13.29	14.27	/	/
140(5700MHz)	15.45	15.39	15.40	142(5710MHz)	13.31	14.31	/	/
144(5720MHz)	15.37	15.37	15.29	/	/	/	/	/
<U-NII-3>								
Tune up	18.0	17.5	18.0	/	14.0	15.0	/	14.0
149(5745MHz)	17.29	16.78	17.18	151(5755MHz)	12.84	13.87	155(5775MHz)	12.96
157(5785MHz)	17.46	16.81	17.33	159(5795MHz)	12.87	13.82	/	/
165(5825MHz)	17.49	16.83	17.39	/	/	/	/	/

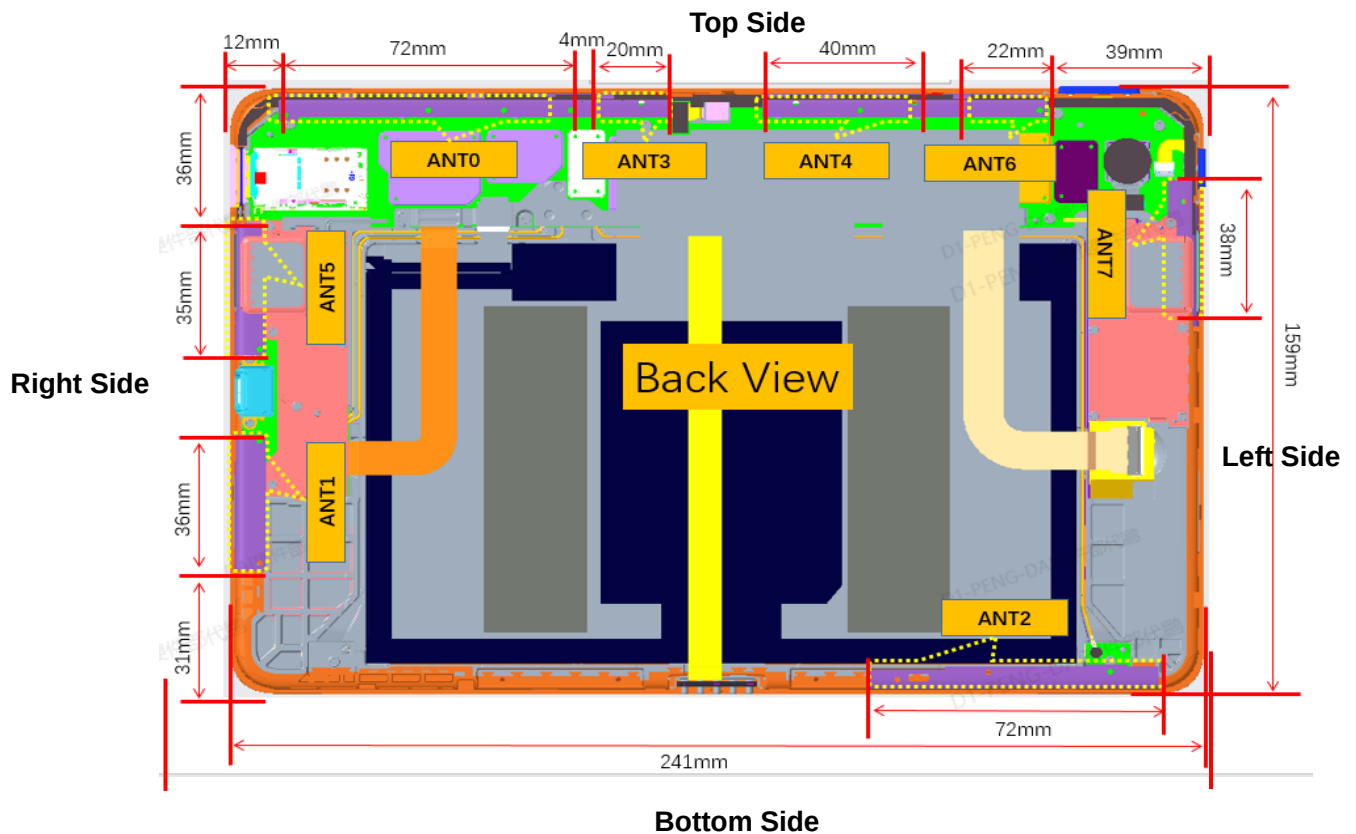
Power Level H1								
Averaged Power (dBm) Duty Cycle: 100%								
Mode	802.11a	802.11n -20MHz	802.11ac -20MHz	Mode	802.11n -40MHz	802.11ac -40MHz	Mode	802.11ac -80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	10.0	10.0	10.0	/	9.5	9.5	/	9.5
36(5180MHz)	8.77	8.71	8.68	38(5190MHz)	8.18	8.28	42(5210MHz)	8.24
40(5200MHz)	8.90	8.75	8.70	46(5230MHz)	8.31	8.35	/	/
44(5220MHz)	8.98	8.80	8.78	/	/	/	/	/
48(5240MHz)	8.96	8.91	8.85	/	/	/	/	/
<U-NII-2A>								
Tune up	10.0	10.0	11.0	/	9.5	9.5	/	9.5
52(5260MHz)	9.15	8.93	8.89	54(5270MHz)	8.52	8.57	58(5290MHz)	8.55
56(5280MHz)	9.20	9.09	9.05	62(5310MHz)	8.60	8.62	/	/
60(5300MHz)	9.24	9.12	9.09	/	/	/	/	/
64(5320MHz)	9.27	9.15	9.12	/	/	/	/	/
<U-NII-2C>								
Tune up	10.0	10.0	10.0	/	9.5	9.5	/	9.5
100(5500MHz)	9.40	9.19	9.30	102(5510MHz)	8.70	8.89	106(5530MHz)	8.70
116(5580MHz)	9.36	9.29	9.24	110(5550MHz)	8.74	8.84	122(5610MHz)	8.66
124(5620MHz)	9.40	9.26	9.29	126(5630MHz)	8.78	8.91	138(5690MHz)	8.75
132(5660MHz)	9.44	9.30	9.27	134(5670MHz)	8.85	8.93	/	/
140(5700MHz)	9.51	9.38	9.41	142(5710MHz)	8.90	8.96	/	/
144(5720MHz)	9.42	9.36	9.30	/	/	/	/	/
<U-NII-3>								
Tune up	10.0	10.0	10.0	/	9.5	9.5	/	9.5
149(5745MHz)	9.20	9.00	9.12	151(5755MHz)	8.44	8.62	155(5775MHz)	8.49
157(5785MHz)	9.25	9.02	9.09	159(5795MHz)	8.41	8.57	/	/
165(5825MHz)	9.29	9.13	9.19	/	/	/	/	/

11. Simultaneous TX SAR Considerations

11.1. Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter. For this device, the Bluetooth and WLAN can transmit simultaneous with other transmitters.

11.2. Transmit Antenna Separation Distances



Picture 11.1 Antenna Locations (Back View)

Note:

Antenna	Frequency Bands
Ant.0	GSM850/1900 TRX, WCDMA Band 2/4/5 TRX, LTE Band 2/4/5/7/12/13/25/26/66/71 TRX, NR n2/n25/n66/n71 TRX
Ant.1	ENDC LTE Band 2/66 TRX, NR n77 PRX MIMO
Ant.2	GSM850/1900 DRX, WCDMA Band 2/4/5 DRX, LTE Band 2/4/5/7/12/13/25/26/66/71 DRX, NR n2/n25/n66/n71 DRX
Ant.3	NR n77 TRX, NR n41 PRX MIMO
Ant.4	LTE Band 2/4/25/66 DRX MIMO, NR n2/n25/n41/n66 DRX MIMO, NR n77 DRX
Ant.5	LTE Band 38/41 TRX, NR n41 TRX, NR n77 DRX MIMO
Ant.6	Bluetooth , WIFI 2.4G/5G TRX
Ant.7	GPS

UL CA list:

Mode/Band	LTE TX Band	LTE TX Ant.	LTE TX Band	LTE TX Ant.
CA_2A-4A	Band 2	Ant.1	Band 4	Ant.0
CA_2A-66A	Band 2	Ant.1	Band 66	Ant.0
CA_2A-12A	Band 2	Ant.0	Band 12	Ant.0
CA_12A-66A	Band 12	Ant.0	Band 66	Ant.0
CA_41C	Band 41	Ant.5	Band 41	Ant.5

5G ENDC list:

Mode/Band	LTE TX Band	LTE TX Ant.	NR TX Band	NR TX Ant.
DC_2A-n41A	Band 2	Ant.1	n41	Ant.5
DC_2A-n66A	Band 2	Ant.1	n66	Ant.0
DC_2A-n71A	Band 2	Ant.1	n71	Ant.0
DC_12A-n2A	Band 12	Ant.0	n2	Ant.0
DC_12A-n25A	Band 12	Ant.0	n25	Ant.0
DC_12A-n66A	Band 12	Ant.0	n66	Ant.0
DC_66A-n25A	Band 66	Ant.1	n25	Ant.0
DC_66A-n41A	Band 66	Ant.1	n41	Ant.5
DC_66A-n71A	Band 66	Ant.1	n71	Ant.0

11.3. SAR Measurement Positions

SAR measurement positions					
Antenna	Rear	Left edge	Right edge	Top edge	Bottom edge
Ant.0	Yes	No	Yes	Yes	No
Ant.1	Yes	No	Yes	No	Yes
Ant.3	Yes	No	No	Yes	No
Ant.5	Yes	No	Yes	Yes	No
Ant.6	Yes	Yes	No	Yes	No

Note:

1. Per KDB 447498 D01v06, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

2. Per KDB 447498 D01v06, For 100 MHz to 6 GHz and *test separation distances* > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following

1) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\}$ mW, for 100 MHz to 1500 MHz

2) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$ mW, for > 1500 MHz and ≤ 6 GHz

12. Evaluation of Simultaneous

According to the KDB 447498 D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The ratio is determined by $(SAR1 + SAR2)^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Table 12.1: The sum of SAR values for WWAN and WLAN Antenna

The sum of SAR values for WWAN and WLAN 2.4G Antenna					
Position	WWAN Antenna (W/kg)		WLAN 2.4G (W/kg)	Sum (W/kg)	SPLSR
Rear (0mm)	GSM850	0.65	0.99	1.64	Yes
	GSM1900	1.06	0.99	2.05	Yes
	WCDMA Band 2	1.04	0.99	2.03	Yes
	WCDMA Band 4	1.07	0.99	2.06	Yes
	WCDMA Band 5	1.09	0.99	2.08	Yes
	LTE Band 2	0.89	0.99	1.88	Yes
	LTE Band 4	0.86	0.99	1.85	Yes
	LTE Band 7	1.06	0.99	2.05	Yes
	LTE Band 12	1.11	0.99	2.10	Yes
	LTE Band 13	1.10	0.99	2.09	Yes
	LTE Band 25	0.97	0.99	1.96	Yes
	LTE Band 26	0.87	0.99	1.86	Yes
	LTE Band 41(PC2)	0.97	0.99	1.96	Yes
	LTE Band 66	0.86	0.99	1.85	Yes
	LTE Band 71	0.97	0.99	1.96	Yes
	NR n2	0.99	0.99	1.98	Yes
	NR n25	1.01	0.99	2.00	Yes
	NR n41	1.09	0.99	2.08	Yes
	NR n66	0.97	0.99	1.96	Yes
	NR n71	1.01	0.99	2.00	Yes
	NR n77	1.09	0.99	2.08	Yes
The sum of SAR values for WWAN and WLAN 5G Antenna					
Position	WWAN Antenna (W/kg)		WLAN 5G (W/kg)	Sum (W/kg)	SPLSR
Rear (0mm)	GSM850	0.65	0.99	1.64	Yes
	GSM1900	1.06	0.99	2.05	Yes
	WCDMA Band 2	1.04	0.99	2.03	Yes
	WCDMA Band 4	1.07	0.99	2.06	Yes
	WCDMA Band 5	1.09	0.99	2.08	Yes
	LTE Band 2	0.89	0.99	1.88	Yes
	LTE Band 4	0.86	0.99	1.85	Yes

	LTE Band 7	1.06	0.99	2.05	Yes
	LTE Band 12	1.11	0.99	2.10	Yes
	LTE Band 13	1.10	0.99	2.09	Yes
	LTE Band 25	0.97	0.99	1.96	Yes
	LTE Band 26	0.87	0.99	1.86	Yes
	LTE Band 41(PC2)	0.97	0.99	1.96	Yes
	LTE Band 66	0.86	0.99	1.85	Yes
	LTE Band 71	0.97	0.99	1.96	Yes
	NR n2	0.99	0.99	1.98	Yes
	NR n25	1.01	0.99	2.00	Yes
	NR n41	1.09	0.99	2.08	Yes
	NR n66	0.97	0.99	1.96	Yes
	NR n71	1.01	0.99	2.00	Yes
	NR n77	1.09	0.99	2.08	Yes
Rear (19mm)	WCDMA Band 2	1.10	0.58	1.68	Yes
	LTE Band 25	1.07	0.58	1.65	Yes
Top (0mm)	GSM850	0.62	1.04	1.66	Yes
	GSM1900	0.64	1.04	1.68	Yes
	WCDMA Band 2	0.68	1.04	1.72	Yes
	WCDMA Band 4	0.59	1.04	1.63	Yes
	WCDMA Band 5	1.06	1.04	2.10	Yes
	LTE Band 2	0.70	1.04	1.74	Yes
	LTE Band 7	0.57	1.04	1.61	Yes
	LTE Band 12	0.79	1.04	1.83	Yes
	LTE Band 13	1.00	1.04	2.04	Yes
	LTE Band 25	0.67	1.04	1.71	Yes
	LTE Band 26	0.74	1.04	1.78	Yes
	LTE Band 71	0.73	1.04	1.77	Yes
	NR n2	0.68	1.04	1.72	Yes
	NR n25	0.70	1.04	1.74	Yes
	NR n66	0.61	1.04	1.65	Yes
	NR n71	0.97	1.04	2.01	Yes
	NR n77	0.64	1.04	1.68	Yes

SAR to peak Location Separation Ratio (SPLSR)

Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Pair SAR sum (W/kg)	SPLSR	Simultaneous SAR
				X	Y	Z				
GSM850	Rear	0.65	0	0.0235	-0.0465	-0.171	110.5	1.64	0.019	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
GSM1900	Rear	1.06	0	0.0775	-0.042	-0.171	164.5	2.05	0.018	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
WCDMA B2	Rear	1.04	0	0.076	-0.042	-0.172	163.0	2.03	0.018	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
WCDMA B4	Rear	1.07	0	0.0635	-0.0435	-0.171	150.5	2.06	0.020	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
WCDMA B5	Rear	1.09	0	0.0665	-0.0465	-0.171	153.5	2.08	0.020	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B2	Rear	0.89	0	0.056	-0.0545	-0.171	143.4	1.88	0.018	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B4	Rear	0.86	0	0.063	-0.0495	-0.171	150.1	1.85	0.017	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B7	Rear	1.06	0	0.072	-0.048	-0.172	159.1	2.05	0.018	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B12	Rear	1.11	0	0.0235	-0.048	-0.172	110.6	2.10	0.028	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B13	Rear	1.10	0	0.022	-0.0465	-0.172	109.0	2.09	0.028	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B25	Rear	0.97	0	0.073	-0.045	-0.171	160.0	1.96	0.017	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B26	Rear	0.87	0	0.0735	-0.0465	-0.171	160.5	1.86	0.016	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B41-PC2	Rear	0.97	0	0.104	0.0135	-0.172	199.3	1.96	0.014	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B66	Rear	0.86	0	0.0615	-0.0465	-0.171	148.5	1.85	0.017	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B71	Rear	0.97	0	0.0235	-0.045	-0.171	110.5	1.96	0.025	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n2	Rear	0.99	0	0.076	-0.0435	-0.171	163.0	1.98	0.017	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n25	Rear	1.01	0	0.0745	-0.045	-0.171	161.5	2.00	0.018	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n41	Rear	1.09	0	0.102	0.0165	-0.170	198.3	2.08	0.015	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				

NR n66	Rear	0.97	0	0.0645	-0.0465	-0.171	151.5	1.96	0.018	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n71	Rear	1.01	0	0.0235	-0.0465	-0.172	110.5	2.00	0.026	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n77	Rear	1.09	0	0.0185	-0.0435	-0.172	105.5	2.08	0.028	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Pair SAR sum (W/kg)	SPLSR	Simultaneous SAR
				X	Y	Z				
GSM850	Rear	0.65	0	0.0235	-0.0465	-0.171	112.5	1.64	0.019	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
GSM1900	Rear	1.06	0	0.0775	-0.042	-0.171	166.6	2.05	0.018	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
WCDMA B2	Rear	1.04	0	0.076	-0.042	-0.172	165.1	2.03	0.018	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
WCDMA B4	Rear	1.07	0	0.0635	-0.0435	-0.171	152.5	2.06	0.019	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
WCDMA B5	Rear	1.09	0	0.0665	-0.0465	-0.171	155.5	2.08	0.019	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B2	Rear	0.89	0	0.056	-0.0545	-0.171	145.2	1.88	0.018	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B4	Rear	0.86	0	0.063	-0.0495	-0.171	152.0	1.85	0.017	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B7	Rear	1.06	0	0.072	-0.048	-0.172	161.0	2.05	0.018	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B12	Rear	1.11	0	0.0235	-0.048	-0.172	112.5	2.10	0.027	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B13	Rear	1.10	0	0.022	-0.0465	-0.172	111.0	2.09	0.027	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B25	Rear	0.97	0	0.073	-0.045	-0.171	162.0	1.96	0.017	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B26	Rear	0.87	0	0.0735	-0.0465	-0.171	162.5	1.86	0.016	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B41-PC2	Rear	0.97	0	0.104	0.0135	-0.172	202.2	1.96	0.014	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B66	Rear	0.86	0	0.0615	-0.0465	-0.171	150.5	1.85	0.017	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B71	Rear	0.97	0	0.0235	-0.045	-0.171	112.5	1.96	0.024	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				

NR n2	Rear	0.99	0	0.076	-0.0435	-0.171	165.0	1.98	0.017	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n25	Rear	1.01	0	0.0745	-0.045	-0.171	163.5	2.00	0.017	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n41	Rear	1.09	0	0.102	0.0165	-0.170	201.1	2.08	0.015	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n66	Rear	0.97	0	0.0645	-0.0465	-0.171	153.5	1.96	0.018	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n71	Rear	1.01	0	0.0235	-0.0465	-0.172	112.5	2.00	0.025	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n77	Rear	1.09	0	0.0185	-0.0435	-0.172	107.6	2.08	0.028	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
WCDMA B2	Rear (19mm)	1.10	19	0.063	0.0045	-0.171	159.1	1.68	0.014	Not required
WLAN 5G		0.58	17	-0.0876	-0.0468	-0.171				
LTE B25	Rear (19mm)	1.07	19	-0.054	-0.171	0.010	222.1	1.65	0.010	Not required
WLAN 5G		0.58	17	-0.0876	-0.0468	-0.171				
GSM850	Top	0.62	0	0.033	0	-0.171	115.8	1.66	0.018	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
GSM1900	Top	0.64	0	0.090	0	-0.171	172.8	1.68	0.013	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
WCDMA B2	Top	0.68	0	0.087	0.0015	-0.172	169.8	1.72	0.013	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
WCDMA B4	Top	0.59	0	0.0625	0.006	-0.171	145.3	1.63	0.014	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
WCDMA B5	Top	1.06	0	0.0265	0.0015	-0.171	109.3	2.10	0.028	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
LTE B2	Top	0.70	0	0.094	0.009	-0.170	176.9	1.74	0.013	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
LTE B7	Top	0.57	0	0.0385	0.003	-0.172	121.3	1.61	0.017	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
LTE B12	Top	0.79	0	0.025	0.0015	-0.171	107.8	1.83	0.023	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
LTE B13	Top	1.00	0	0.0315	0	-0.172	114.3	2.04	0.025	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
LTE B25	Top	0.67	0	0.0885	0	-0.171	171.3	1.71	0.013	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
LTE B26	Top	0.74	0	0.0235	0	-0.171	106.3	1.78	0.022	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
LTE B71	Top	0.73	0	0.0315	0	-0.172	114.3	1.77	0.021	Not required

WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
NR n2	Top	0.68	0	0.0885	0	-0.171	171.3	1.72	0.013	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
NR n25	Top	0.70	0	0.0885	0	-0.171	171.3	1.74	0.013	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
NR n66	Top	0.61	0	0.0755	0.0015	-0.171	158.3	1.65	0.013	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
NR n71	Top	0.97	0	0.0235	0	-0.172	106.3	2.01	0.027	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
NR n77	Top	0.64	0	-0.0045	-0.0015	-0.172	78.4	1.68	0.028	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				

Table 12.2: The sum of SAR values for LTE UL CA and WLAN Antenna

The sum of SAR values for LTE UL CA and WLAN 2.4G Antenna					
Position	LTE UL CA (W/kg)		WLAN 2.4G (W/kg)	Sum (W/kg)	SPLSR
Rear (0mm)	CA_2A-4A	0.81	0.99	1.80	Yes
	CA_2A-66A	0.84	0.99	1.83	Yes
	CA_2A-12A	1.13	0.99	2.12	Yes
	CA_12A-66A	0.97	0.99	1.96	Yes
The sum of SAR values for LTE UL CA and WLAN 5G Antenna					
Position	LTE UL CA (W/kg)		WLAN 5G (W/kg)	Sum (W/kg)	SPLSR
Rear (0mm)	CA_2A-4A	0.81	0.99	1.80	Yes
	CA_2A-66A	0.84	0.99	1.83	Yes
	CA_2A-12A	1.13	0.99	2.12	Yes
	CA_12A-66A	0.97	0.99	1.96	Yes
Top (0mm)	CA_2A-12A	0.78	1.04	1.82	Yes
	CA_12A-66A	0.66	1.04	1.70	Yes

SAR to peak Location Separation Ratio (SPLSR)

Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Pair SAR sum (W/kg)	SPLSR	Simultaneous SAR
				X	Y	Z				
				X	Y	Z				
CA_2A-4A + WLAN 2.4G										
LTE B2	Rear	0.44	0	0.102	0.0575	-0.171	214.3	1.43	0.008	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B4	Rear	0.37	0	0.0695	-0.0435	-0.171	156.5	1.36	0.010	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
CA_2A-66A + WLAN 2.4G										
LTE B2	Rear	0.44	0	0.102	0.0575	-0.171	214.3	1.43	0.008	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B66	Rear	0.40	0	0.0695	-0.0435	-0.171	156.5	1.39	0.010	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
CA_2A-12A + WLAN 2.4G										
LTE B2	Rear	0.56	0	0.0745	-0.045	-0.172	161.5	1.55	0.012	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B12	Rear	0.57	0	0.0315	-0.045	-0.171	118.5	1.56	0.016	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
CA_12A-66A + WLAN 2.4G										
LTE B12	Rear	0.57	0	0.0315	-0.045	-0.171	118.5	1.56	0.016	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
LTE B66	Rear	0.40	0	0.0695	-0.0435	-0.171	156.5	1.39	0.010	



WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Pair SAR sum (W/kg)	SPLSR	Simultaneous SAR
				X	Y	Z				
CA_2A-4A + WLAN 5G										
LTE B2	Rear	0.44	0	0.102	0.0575	-0.171	217.6	1.43	0.008	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B4	Rear	0.37	0	0.0695	-0.0435	-0.171	158.5	1.36	0.010	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
CA_2A-66A + WLAN 5G										
LTE B2	Rear	0.44	0	0.102	0.0575	-0.171	217.6	1.43	0.008	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B66	Rear	0.40	0	0.0695	-0.0435	-0.171	158.5	1.39	0.010	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
CA_2A-12A + WLAN 5G										
LTE B2	Rear	0.56	0	0.0745	-0.045	-0.172	163.5	1.55	0.012	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B12	Rear	0.57	0	0.0315	-0.045	-0.171	120.5	1.56	0.016	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
CA_12A-66A + WLAN 5G										
LTE B12	Rear	0.57	0	0.0315	-0.045	-0.171	120.5	1.56	0.016	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
LTE B66	Rear	0.40	0	0.0695	-0.0435	-0.171	158.5	1.39	0.010	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
CA_2A-12A + WLAN 5G										
LTE B2	Top	0.38	0	0.09	0	-0.171	172.8	1.42	0.010	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
LTE B12	Top	0.40	0	0.0395	0.0015	-0.171	122.3	1.44	0.014	
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
CA_12A-66A + WLAN 5G										
LTE B12	Top	0.40	0	0.0395	0.0015	-0.171	122.3	1.44	0.014	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
LTE B66	Top	0.26	0	0.077	0.0015	-0.171	159.8	1.30	0.009	
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				

Table 12.3: The sum of SAR values for ENDC and Bluetooth/WLAN Antenna

The sum of SAR values for ENDC and Bluetooth Antenna					
Position	ENDC		Bluetooth (W/kg)	Sum (W/kg)	SPLSR
Rear (0mm)	DC_12A_n2A	1.40	0.32	1.72	Yes
	DC_12A_n25A	1.39	0.32	1.71	Yes
	DC_12A_n66A	1.31	0.32	1.63	Yes
	DC_66A_n71A	1.29	0.32	1.61	Yes
The sum of SAR values for ENDC and WLAN 2.4G Antenna					
Position	ENDC		WLAN 2.4G (W/kg)	Sum (W/kg)	SPLSR
Rear (0mm)	DC_2A_n41A	1.08	0.99	2.07	Yes
	DC_2A_n66A	1.16	0.99	2.15	Yes
	DC_2A_n71A	1.26	0.99	2.25	Yes
	DC_12A_n2A	1.40	0.99	2.39	Yes
	DC_12A_n25A	1.39	0.99	2.38	Yes
	DC_12A_n66A	1.31	0.99	2.30	Yes
	DC_66A_n25A	1.27	0.99	2.26	Yes
	DC_66A_n41A	1.11	0.99	2.10	Yes
	DC_66A_n71A	1.29	0.99	2.28	Yes
The sum of SAR values for ENDC and WLAN 5G Antenna					
Position	ENDC		WLAN 5G (W/kg)	Sum (W/kg)	SPLSR
Rear (0mm)	DC_2A_n41A	1.08	0.99	2.07	Yes
	DC_2A_n66A	1.16	0.99	2.15	Yes
	DC_2A_n71A	1.26	0.99	2.25	Yes
	DC_12A_n2A	1.40	0.99	2.39	Yes
	DC_12A_n25A	1.39	0.99	2.38	Yes
	DC_12A_n66A	1.31	0.99	2.30	Yes
	DC_66A_n25A	1.27	0.99	2.26	Yes
	DC_66A_n41A	1.11	0.99	2.10	Yes
	DC_66A_n71A	1.29	0.99	2.28	Yes
Top (0mm)	DC_2A_n71A	0.58	1.04	1.62	Yes
	DC_12A_n2A	1.05	1.04	2.09	Yes
	DC_12A_n25A	1.05	1.04	2.09	Yes
	DC_12A_n66A	0.92	1.04	1.96	Yes
	DC_66A_n71A	0.58	1.04	1.62	Yes

SAR to peak Location Separation Ratio (SPLSR)

Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Pair SAR sum (W/kg)	SPLSR	Simultaneous SAR
				X	Y	Z				
DC_12A_n2A + Bluetooth										
LTE B12	Rear	0.70	0	0.0315	-0.0465	-0.172	120.0	1.02	0.009	Not required
Bluetooth		0.32	0	-0.0885	-0.0435	-0.172				
NR n2	Rear	0.70	0	0.0745	-0.0435	-0.172	163.0	1.02	0.006	
Bluetooth		0.32	0	-0.0885	-0.0435	-0.172				
DC_12A_n25A + Bluetooth										
LTE B12	Rear	0.70	0	0.0315	-0.0465	-0.172	120.0	1.02	0.009	Not required
Bluetooth		0.32	0	-0.0885	-0.0435	-0.172				
NR n25	Rear	0.69	0	0.073	-0.045	-0.172	161.5	1.01	0.006	
Bluetooth		0.32	0	-0.0885	-0.0435	-0.172				
DC_12A_n66A + Bluetooth										
LTE B12	Rear	0.70	0	0.0315	-0.0465	-0.172	120.0	1.02	0.009	Not required
Bluetooth		0.32	0	-0.0885	-0.0435	-0.172				
NR n66	Rear	0.61	0	0.0645	-0.0465	-0.171	153.0	0.93	0.006	
Bluetooth		0.32	0	-0.0885	-0.0435	-0.172				
DC_66A_n71A + Bluetooth										
LTE B66	Rear	0.58	0	0.101	0.0495	-0.17	211.1	0.90	0.004	Not required
Bluetooth		0.32	0	-0.0885	-0.0435	-0.172				
NR n71	Rear	0.71	0	0.022	-0.045	-0.171	110.5	1.03	0.009	
Bluetooth		0.32	0	-0.0885	-0.0435	-0.172				
Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Pair SAR sum (W/kg)	SPLSR	Simultaneous SAR
				X	Y	Z				
DC_2A_n41A + WLAN 2.4G										
LTE B2	Rear	0.55	0	0.102	0.045	-0.171	208.7	1.54	0.009	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n41	Rear	0.53	0	0.104	0.015	-0.172	199.8	1.52	0.009	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
DC_2A_n66A + WLAN 2.4G										
LTE B2	Rear	0.55	0	0.102	0.045	-0.171	208.7	1.54	0.009	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n66	Rear	0.61	0	0.0645	-0.0465	-0.171	151.5	1.60	0.013	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
DC_2A_n71A + WLAN 2.4G										
LTE B2	Rear	0.55	0	0.102	0.045	-0.171	208.7	1.54	0.009	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				

NR n71	Rear	0.71	0	0.022	-0.045	-0.171	109.0	1.70	0.020	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
DC_12A_n2A + WLAN 2.4G										
LTE B12	Rear	0.70	0	0.0315	-0.0465	-0.172	118.5	1.69	0.019	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n2	Rear	0.70	0	0.0745	-0.0435	-0.172	161.5	1.69	0.014	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
DC_12A_n25A + WLAN 2.4G										
LTE B12	Rear	0.70	0	0.0315	-0.0465	-0.172	118.5	1.69	0.019	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n25	Rear	0.69	0	0.073	-0.045	-0.172	160.0	1.68	0.014	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
DC_12A_n66A + WLAN 2.4G										
LTE B12	Rear	0.70	0	0.0315	-0.0465	-0.172	118.5	1.69	0.019	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n66	Rear	0.61	0	0.0645	-0.0465	-0.171	151.5	1.60	0.013	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
DC_66A_n25A + WLAN 2.4G										
LTE B66	Rear	0.58	0	0.101	0.0495	-0.17	209.7	1.57	0.009	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n25	Rear	0.69	0	0.073	-0.045	-0.172	160.0	1.68	0.014	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
DC_66A_n41A + WLAN 2.4G										
LTE B66	Rear	0.58	0	0.101	0.0495	-0.17	209.7	1.57	0.009	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n41	Rear	0.53	0	0.104	0.015	-0.172	199.8	1.52	0.009	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
DC_66A_n71A + WLAN 2.4G										
LTE B66	Rear	0.58	0	0.101	0.0495	-0.17	209.7	1.57	0.009	Not required
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
NR n71	Rear	0.71	0	0.022	-0.045	-0.171	109.0	1.70	0.020	
WLAN 2.4G		0.99	0	-0.087	-0.0435	-0.171				
Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Pair SAR sum (W/kg)	SPLSR	Simultaneous SAR
				X	Y	Z				
DC_2A_n41A + WLAN 5G										
LTE B2	Rear	0.55	0	0.102	0.045	-0.171	211.9	1.54	0.009	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n41	Rear	0.53	0	0.104	0.015	-0.172	202.7	1.52	0.009	

WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
DC_2A_n66A + WLAN 5G										
LTE B2	Rear	0.55	0	0.102	0.045	-0.171	211.9	1.54	0.009	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n66	Rear	0.61	0	0.0645	-0.0465	-0.171	153.5	1.60	0.013	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
DC_2A_n71A + WLAN 5G										
LTE B2	Rear	0.55	0	0.102	0.045	-0.171	211.9	1.54	0.009	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n71	Rear	0.71	0	0.022	-0.045	-0.171	111.0	1.70	0.020	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
DC_12A_n2A + WLAN 5G										
LTE B12	Rear	0.70	0	0.0315	-0.0465	-0.172	120.5	1.69	0.018	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n2	Rear	0.70	0	0.0745	-0.0435	-0.172	163.5	1.69	0.013	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
DC_12A_n25A + WLAN 5G										
LTE B12	Rear	0.70	0	0.0315	-0.0465	-0.172	120.5	1.69	0.018	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n25	Rear	0.69	0	0.073	-0.045	-0.172	162.0	1.68	0.013	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
DC_12A_n66A + WLAN 5G										
LTE B12	Rear	0.70	0	0.0315	-0.0465	-0.172	120.5	1.69	0.018	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n66	Rear	0.61	0	0.0645	-0.0465	-0.171	153.5	1.60	0.013	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
DC_66A_n25A + WLAN 5G										
LTE B66	Rear	0.58	0	0.101	0.0495	-0.17	213.0	1.57	0.009	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n25	Rear	0.69	0	0.073	-0.045	-0.172	162.0	1.68	0.013	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
DC_66A_n41A + WLAN 5G										
LTE B66	Rear	0.58	0	0.101	0.0495	-0.17	213.0	1.57	0.009	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
NR n41	Rear	0.53	0	0.104	0.015	-0.172	202.7	1.52	0.009	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
DC_66A_n71A + WLAN 5G										
LTE B66	Rear	0.58	0	0.101	0.0495	-0.17	213.0	1.57	0.009	Not required
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				

NR n71	Rear	0.71	0	0.022	-0.045	-0.171	111.0	1.70	0.020	
WLAN 5G		0.99	0	-0.089	-0.0468	-0.171				
DC_2A_n71A + WLAN 5G										
LTE B2	Top	/	/	/	/	/	/	/	/	Not required
WLAN 5G		/	/	/	/	/				
NR n71	Top	0.58	0	0.0235	0.0015	-0.171	106.3	1.62	0.019	
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
DC_12A_n2A + WLAN 5G										
LTE B12	Top	0.56	0	0.033	-0.0015	-0.172	115.9	1.60	0.017	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
NR n2	Top	0.49	0	0.087	0	-0.172	169.8	1.53	0.011	
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
DC_12A_n25A + WLAN 5G										
LTE B12	Top	0.56	0	0.033	-0.0015	-0.172	115.9	1.60	0.017	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
NR n25	Top	0.49	0	0.087	0	-0.172	169.8	1.53	0.011	
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
DC_12A_n66A + WLAN 5G										
LTE B12	Top	0.56	0	0.033	-0.0015	-0.172	115.9	1.60	0.017	Not required
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
NR n66	Top	0.36	0	0.0815	0.0015	-0.171	164.3	1.40	0.010	
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				
DC_66A_n71A + WLAN 5G										
LTE B66	Top	/	/	/	/	/	/	/	/	Not required
WLAN 5G		/	/	/	/	/				
NR n71	Top	0.58	0	0.0235	0.0015	-0.171	106.3	1.62	0.019	
WLAN 5G		1.04	0	-0.0828	0.0024	-0.171				

Table 12.4: The sum of SAR values for LTE UL CA

Mode	Position	CA_2A-4A		
		LTE Band 2 (W/kg)	LTE Band 4 (W/kg)	SUM (W/kg)
Body (0mm)	Rear	0.44	0.37	0.81
	Right	0.31	0.13	0.44
	Top	/	0.26	0.26
	Bottom	0.11	/	0.11
Body (Sensor off)	Rear	0.27	0.37	0.64
	Right	0.27	0.13	0.40
	Top	/	0.24	0.26
Mode	Position	CA_2A-66A		
		LTE Band 2 (W/kg)	LTE Band 66 (W/kg)	SUM (W/kg)
Body (0mm)	Rear	0.44	0.40	0.84
	Right	0.31	0.13	0.44
	Top	/	0.26	0.26
	Bottom	0.11	/	0.11
Body (Sensor off)	Rear	0.27	0.40	0.67
	Right	0.27	0.13	0.40
	Top	/	0.29	0.29
Mode	Position	CA_2A-12A		
		LTE Band 2 (W/kg)	LTE Band 12 (W/kg)	SUM (W/kg)
Body (0mm)	Rear	0.56	0.57	1.13
	Right	0.11	0.13	0.24
	Top	0.38	0.40	0.78
Body (Sensor off)	Rear	0.38	0.26	0.64
	Top	0.41	0.21	0.62
Mode	Position	CA_12A-66A		
		LTE Band 12 (W/kg)	LTE Band 66 (W/kg)	SUM (W/kg)
Body (0mm)	Rear	0.57	0.40	0.97
	Right	0.13	0.13	0.26
	Top	0.40	0.26	0.66
Body (Sensor off)	Rear	0.26	0.35	0.61
	Top	0.21	0.29	0.50

Note: the test positions of above tables are for the worse case that has been evaluated.