



LTE BAND 40

LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.34	23.11	22.91
5	1	12		23.25	22.99	22.74
5	1	24		23.05	22.77	22.6
5	12	0		22.27	22.11	21.89
5	12	6		22.29	22.11	21.92
5	12	11		22.13	21.95	21.74
5	25	0		22.17	21.99	21.75
5	1	0	16-QAM	22.32	22.12	21.84
5	1	12		22.42	22.15	21.76
5	1	24		22.02	22.05	21.54
5	12	0		21.24	21.16	20.95
5	12	6		21.18	21.18	20.95
5	12	11		21.08	21.01	20.81
5	25	0		21.21	20.97	20.77
10	1	0	QPSK	23.11	23.22	23.22
10	1	24		22.9	23.32	23.32
10	1	49		22.53	23.25	23.25
10	25	0		22.05	22.35	22.35
10	25	12		22.04	22.33	22.33
10	25	24		21.73	22.44	22.44
10	50	0		21.96	22.35	22.35
10	1	0	16-QAM	21.97	22.07	22.07
10	1	24		21.77	22.18	22.18
10	1	49		21.39	22.2	22.2
10	25	0		21.06	21.31	21.31
10	25	12		21.06	21.35	21.35
10	25	24		20.69	21.36	21.36
10	50	0		20.97	21.39	21.39



LTE BAND 41

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.28	22.2	22.13
5	1	12		23.26	22.32	22.23
5	1	24		23.27	22.28	22.19
5	12	0		22.28	21.23	21.19
5	12	6		22.25	21.24	21.17
5	12	11		22.27	21.25	21.19
5	25	0		22.23	21.2	21.19
5	1	0	16-QAM	22.29	21.06	20.98
5	1	12		22.23	21.27	21.26
5	1	24		22.26	21.15	21.05
5	12	0		21.23	20.21	20.15
5	12	6		21.2	20.2	20.14
5	12	11		21.23	20.21	20.19
5	25	0		21.22	20.26	20.19
10	1	0	QPSK	23.16	22.07	21.92
10	1	24		23.14	22.11	22.02
10	1	49		23.34	22.05	21.89
10	25	0		22.2	21.24	21.06
10	25	12		22.3	21.24	21.01
10	25	24		22.4	21.21	21.17
10	50	0		22.28	21.28	21.1
10	1	0	16-QAM	22.31	21.32	20.98
10	1	24		22.38	21.17	21.13
10	1	49		22.52	21.26	21.18
10	25	0		21.28	20.28	20.03
10	25	12		21.26	20.28	20.06
10	25	24		21.36	20.34	20.25
10	50	0		21.33	20.3	20.15



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.99	22.15	21.91
15	1	37		23.07	22.03	21.89
15	1	74		23.4	22.01	21.98
15	36	0		22.23	21.21	21.13
15	36	18		22.33	21.13	21.04
15	36	39		22.64	21.15	21.06
15	75	0		22.28	21.18	20.98
15	1	0	16-QAM	22.09	21.21	21.02
15	1	38		22.3	21.1	21.02
15	1	75		22.69	21.2	21.04
15	36	0		22.28	21.18	21.02
15	36	18		22.31	21.13	21.03
15	36	39		22.72	21.22	21.04
15	75	0		21.31	20.1	19.96
20	1	0	QPSK	22.99	22.2	22.2
20	1	49		23.24	22.07	21.97
20	1	99		23.48	22.18	22.03
20	50	0		22.11	21.19	21.1
20	50	24		22.13	21.18	21.1
20	50	49		22.56	21.18	21.1
20	100	0		22.44	21.19	21.14
20	1	0	16-QAM	22.05	21.16	21.18
20	1	49		22.2	21.01	20.93
20	1	99		22.51	21.16	21.02
20	50	0		21.13	20.21	20.08
20	50	24		21.15	20.19	20.09
20	50	49		21.58	20.2	20.06
20	100	0		21.43	20.19	20.16



NR Power

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)
n2	15	5	370500	1@1	DFT_BPSK	21.96
n2	15	5	370500	25@0	DFT_QPSK	21.95
n2	15	5	370500	12@6	DFT_QPSK	22.05
n2	15	5	370500	1@1	DFT_QPSK	21.96
n2	15	5	370500	1@23	DFT_QPSK	21.97
n2	15	5	370500	1@1	DFT_QAM16	21.66
n2	15	5	370500	1@1	DFT_QAM64	20.52
n2	15	5	370500	1@1	DFT_QAM256	18.64
n2	15	5	370500	1@1	CP_QPSK	21.97
n2	15	5	376000	1@1	DFT_BPSK	20.55
n2	15	5	376000	25@0	DFT_QPSK	20.39
n2	15	5	376000	12@6	DFT_QPSK	20.43
n2	15	5	376000	1@1	DFT_QPSK	20.56
n2	15	5	376000	1@23	DFT_QPSK	20.08
n2	15	5	376000	1@1	DFT_QAM16	20.43
n2	15	5	376000	1@1	DFT_QAM64	19
n2	15	5	376000	1@1	DFT_QAM256	17.24
n2	15	5	376000	1@1	CP_QPSK	20.56
n2	15	5	381500	1@1	DFT_BPSK	19.7
n2	15	5	381500	25@0	DFT_QPSK	19.7
n2	15	5	381500	12@6	DFT_QPSK	19.71
n2	15	5	381500	1@1	DFT_QPSK	19.72
n2	15	5	381500	1@23	DFT_QPSK	19.42
n2	15	5	381500	1@1	DFT_QAM16	19.82
n2	15	5	381500	1@1	DFT_QAM64	18.19
n2	15	5	381500	1@1	DFT_QAM256	16.47
n2	15	5	381500	1@1	CP_QPSK	19.72
n2	15	15	371500	1@1	DFT_BPSK	21.8
n2	15	15	371500	75@0	DFT_QPSK	21.93
n2	15	15	371500	36@18	DFT_QPSK	21.92
n2	15	15	371500	1@1	DFT_QPSK	21.69
n2	15	15	371500	1@77	DFT_QPSK	21.75
n2	15	15	371500	1@1	DFT_QAM16	21.74
n2	15	15	371500	1@1	DFT_QAM64	20.13
n2	15	15	371500	1@1	DFT_QAM256	18.1
n2	15	15	371500	1@1	CP_QPSK	21.8



n2	15	15	376000	1@1	DFT_BPSK	20.86
n2	15	15	376000	75@0	DFT_QPSK	20.54
n2	15	15	376000	36@18	DFT_QPSK	20.41
n2	15	15	376000	1@1	DFT_QPSK	20.86
n2	15	15	376000	1@77	DFT_QPSK	19.56
n2	15	15	376000	1@1	DFT_QAM16	20.65
n2	15	15	376000	1@1	DFT_QAM64	19.33
n2	15	15	376000	1@1	DFT_QAM256	17.78
n2	15	15	376000	1@1	CP_QPSK	20.91
n2	15	15	380500	1@1	DFT_BPSK	19.42
n2	15	15	380500	75@0	DFT_QPSK	19.63
n2	15	15	380500	36@18	DFT_QPSK	19.64
n2	15	15	380500	1@1	DFT_QPSK	19.4
n2	15	15	380500	1@77	DFT_QPSK	19.33
n2	15	15	380500	1@1	DFT_QAM16	19.47
n2	15	15	380500	1@1	DFT_QAM64	17.33
n2	15	15	380500	1@1	DFT_QAM256	16.26
n2	15	15	380500	1@1	CP_QPSK	19.42
n2	15	20	372000	1@1	DFT_BPSK	21.73
n2	15	20	372000	100@0	DFT_QPSK	21.9
n2	15	20	372000	50@25	DFT_QPSK	21.86
n2	15	20	372000	1@1	DFT_QPSK	21.73
n2	15	20	372000	1@104	DFT_QPSK	21.5
n2	15	20	372000	1@1	DFT_QAM16	21.47
n2	15	20	372000	1@1	DFT_QAM64	20.16
n2	15	20	372000	1@1	DFT_QAM256	18.09
n2	15	20	372000	1@1	CP_QPSK	21.73
n2	15	20	376000	1@1	DFT_BPSK	21.09
n2	15	20	376000	100@0	DFT_QPSK	20.52
n2	15	20	376000	50@25	DFT_QPSK	20.44
n2	15	20	376000	1@1	DFT_QPSK	21.18
n2	15	20	376000	1@104	DFT_QPSK	19.45
n2	15	20	376000	1@1	DFT_QAM16	20.88
n2	15	20	376000	1@1	DFT_QAM64	19.54
n2	15	20	376000	1@1	DFT_QAM256	18.03
n2	15	20	376000	1@1	CP_QPSK	21.18
n2	15	20	380000	1@1	DFT_BPSK	19.53
n2	15	20	380000	100@0	DFT_QPSK	19.62



n2	15	20	380000	50@25	DFT_QPSK	19.61
n2	15	20	380000	1@1	DFT_QPSK	19.51
n2	15	20	380000	1@104	DFT_QPSK	19.38
n2	15	20	380000	1@1	DFT_QAM16	18.86
n2	15	20	380000	1@1	DFT_QAM64	17.95
n2	15	20	380000	1@1	DFT_QAM256	15.87
n2	15	20	380000	1@1	CP_QPSK	19.51





Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)
n5	15	5	165300	1@1	DFT_BPSK	23.46
n5	15	5	165300	25@0	DFT_QPSK	23.47
n5	15	5	165300	12@6	DFT_QPSK	23.41
n5	15	5	165300	1@1	DFT_QPSK	23.55
n5	15	5	165300	1@23	DFT_QPSK	23.54
n5	15	5	165300	1@1	DFT_QAM16	23.68
n5	15	5	165300	1@1	DFT_QAM64	22.07
n5	15	5	165300	1@1	DFT_QAM256	19.9
n5	15	5	165300	1@1	CP_QPSK	23
n5	15	5	167300	1@1	DFT_BPSK	23.36
n5	15	5	167300	25@0	DFT_QPSK	23.52
n5	15	5	167300	12@6	DFT_QPSK	23.4
n5	15	5	167300	1@1	DFT_QPSK	23.43
n5	15	5	167300	1@23	DFT_QPSK	23.55
n5	15	5	167300	1@1	DFT_QAM16	23.51
n5	15	5	167300	1@1	DFT_QAM64	21.65
n5	15	5	167300	1@1	DFT_QAM256	19.93
n5	15	5	167300	1@1	CP_QPSK	22.9
n5	15	5	169300	1@1	DFT_BPSK	23.31
n5	15	5	169300	25@0	DFT_QPSK	23.3
n5	15	5	169300	12@6	DFT_QPSK	23.26
n5	15	5	169300	1@1	DFT_QPSK	23.33
n5	15	5	169300	1@23	DFT_QPSK	23.31
n5	15	5	169300	1@1	DFT_QAM16	23.32
n5	15	5	169300	1@1	DFT_QAM64	21.78
n5	15	5	169300	1@1	DFT_QAM256	19.88
n5	15	5	169300	1@1	CP_QPSK	22.95
n5	15	15	166300	1@1	DFT_BPSK	23.23
n5	15	15	166300	75@0	DFT_QPSK	23.38
n5	15	15	166300	36@18	DFT_QPSK	23.32
n5	15	15	166300	1@1	DFT_QPSK	23.24
n5	15	15	166300	1@77	DFT_QPSK	23.25
n5	15	15	166300	1@1	DFT_QAM16	23.38
n5	15	15	166300	1@1	DFT_QAM64	21.76
n5	15	15	166300	1@1	DFT_QAM256	19.85
n5	15	15	166300	1@1	CP_QPSK	22.77



n5	15	15	167300	1@1	DFT_BPSK	23.29
n5	15	15	167300	75@0	DFT_QPSK	23.27
n5	15	15	167300	36@18	DFT_QPSK	23.32
n5	15	15	167300	1@1	DFT_QPSK	23.3
n5	15	15	167300	1@77	DFT_QPSK	23.26
n5	15	15	167300	1@1	DFT_QAM16	23.19
n5	15	15	167300	1@1	DFT_QAM64	22.03
n5	15	15	167300	1@1	DFT_QAM256	20.07
n5	15	15	167300	1@1	CP_QPSK	23.15
n5	15	15	168300	1@1	DFT_BPSK	23.23
n5	15	15	168300	75@0	DFT_QPSK	23.38
n5	15	15	168300	36@18	DFT_QPSK	23.31
n5	15	15	168300	1@1	DFT_QPSK	23.3
n5	15	15	168300	1@77	DFT_QPSK	23.11
n5	15	15	168300	1@1	DFT_QAM16	23.72
n5	15	15	168300	1@1	DFT_QAM64	21.62
n5	15	15	168300	1@1	DFT_QAM256	19.45
n5	15	15	168300	1@1	CP_QPSK	22.97
n5	15	20	166800	1@1	DFT_BPSK	23.24
n5	15	20	166800	100@0	DFT_QPSK	23.33
n5	15	20	166800	50@25	DFT_QPSK	23.33
n5	15	20	166800	1@1	DFT_QPSK	23.36
n5	15	20	166800	1@104	DFT_QPSK	23.09
n5	15	20	166800	1@1	DFT_QAM16	23.31
n5	15	20	166800	1@1	DFT_QAM64	21.85
n5	15	20	166800	1@1	DFT_QAM256	19.76
n5	15	20	166800	1@1	CP_QPSK	22.8
n5	15	20	167300	1@1	DFT_BPSK	23.34
n5	15	20	167300	100@0	DFT_QPSK	23.34
n5	15	20	167300	50@25	DFT_QPSK	23.36
n5	15	20	167300	1@1	DFT_QPSK	23.35
n5	15	20	167300	1@104	DFT_QPSK	23.16
n5	15	20	167300	1@1	DFT_QAM16	23.4
n5	15	20	167300	1@1	DFT_QAM64	21.86
n5	15	20	167300	1@1	DFT_QAM256	19.97
n5	15	20	167300	1@1	CP_QPSK	22.83
n5	15	20	167800	1@1	DFT_BPSK	23.29
n5	15	20	167800	100@0	DFT_QPSK	23.31



n5	15	20	167800	50@25	DFT_QPSK	23.39
n5	15	20	167800	1@1	DFT_QPSK	23.3
n5	15	20	167800	1@104	DFT_QPSK	23.09
n5	15	20	167800	1@1	DFT_QAM16	23.38
n5	15	20	167800	1@1	DFT_QAM64	21.8
n5	15	20	167800	1@1	DFT_QAM256	19.94
n5	15	20	167800	1@1	CP_QPSK	22.82





Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)
n7	15	5	500500	1@1	DFT_BPSK	23.71
n7	15	5	500500	25@0	DFT_QPSK	23.66
n7	15	5	500500	12@6	DFT_QPSK	23.71
n7	15	5	500500	1@1	DFT_QPSK	23.62
n7	15	5	500500	1@23	DFT_QPSK	23.74
n7	15	5	500500	1@1	DFT_QAM16	23.5
n7	15	5	500500	1@1	DFT_QAM64	22.08
n7	15	5	500500	1@1	DFT_QAM256	20.32
n7	15	5	500500	1@1	CP_QPSK	23.61
n7	15	5	507000	1@1	DFT_BPSK	23.74
n7	15	5	507000	25@0	DFT_QPSK	23.86
n7	15	5	507000	12@6	DFT_QPSK	23.81
n7	15	5	507000	1@1	DFT_QPSK	23.73
n7	15	5	507000	1@23	DFT_QPSK	23.71
n7	15	5	507000	1@1	DFT_QAM16	23.64
n7	15	5	507000	1@1	DFT_QAM64	22.37
n7	15	5	507000	1@1	DFT_QAM256	20.46
n7	15	5	507000	1@1	CP_QPSK	23.74
n7	15	5	513500	1@1	DFT_BPSK	23.03
n7	15	5	513500	25@0	DFT_QPSK	23.18
n7	15	5	513500	12@6	DFT_QPSK	23.14
n7	15	5	513500	1@1	DFT_QPSK	23.02
n7	15	5	513500	1@23	DFT_QPSK	23
n7	15	5	513500	1@1	DFT_QAM16	23.09
n7	15	5	513500	1@1	DFT_QAM64	21.33
n7	15	5	513500	1@1	DFT_QAM256	19.68
n7	15	5	513500	1@1	CP_QPSK	23.05
n7	15	15	501500	1@1	DFT_BPSK	23.28
n7	15	15	501500	75@0	DFT_QPSK	23.57
n7	15	15	501500	36@18	DFT_QPSK	23.42
n7	15	15	501500	1@1	DFT_QPSK	23.16
n7	15	15	501500	1@77	DFT_QPSK	23.24
n7	15	15	501500	1@1	DFT_QAM16	23.31
n7	15	15	501500	1@1	DFT_QAM64	21.61
n7	15	15	501500	1@1	DFT_QAM256	19.57
n7	15	15	501500	1@1	CP_QPSK	23.26



n7	15	15	507000	1@1	DFT_BPSK	23.4
n7	15	15	507000	75@0	DFT_QPSK	23.58
n7	15	15	507000	36@18	DFT_QPSK	23.54
n7	15	15	507000	1@1	DFT_QPSK	23.4
n7	15	15	507000	1@77	DFT_QPSK	23.46
n7	15	15	507000	1@1	DFT_QAM16	23.44
n7	15	15	507000	1@1	DFT_QAM64	21.87
n7	15	15	507000	1@1	DFT_QAM256	19.81
n7	15	15	507000	1@1	CP_QPSK	23.4
n7	15	15	512500	1@1	DFT_BPSK	22.9
n7	15	15	512500	75@0	DFT_QPSK	23.11
n7	15	15	512500	36@18	DFT_QPSK	23.11
n7	15	15	512500	1@1	DFT_QPSK	22.89
n7	15	15	512500	1@77	DFT_QPSK	22.88
n7	15	15	512500	1@1	DFT_QAM16	22.92
n7	15	15	512500	1@1	DFT_QAM64	21.29
n7	15	15	512500	1@1	DFT_QAM256	19.17
n7	15	15	512500	1@1	CP_QPSK	22.9
n7	15	20	502000	1@1	DFT_BPSK	23.2
n7	15	20	502000	100@0	DFT_QPSK	23.43
n7	15	20	502000	50@25	DFT_QPSK	23.53
n7	15	20	502000	1@1	DFT_QPSK	23.21
n7	15	20	502000	1@104	DFT_QPSK	23.22
n7	15	20	502000	1@1	DFT_QAM16	23.12
n7	15	20	502000	1@1	DFT_QAM64	21.65
n7	15	20	502000	1@1	DFT_QAM256	19.66
n7	15	20	502000	1@1	CP_QPSK	23.21
n7	15	20	507000	1@1	DFT_BPSK	23.4
n7	15	20	507000	100@0	DFT_QPSK	23.53
n7	15	20	507000	50@25	DFT_QPSK	23.54
n7	15	20	507000	1@1	DFT_QPSK	23.39
n7	15	20	507000	1@104	DFT_QPSK	23.48
n7	15	20	507000	1@1	DFT_QAM16	23.51
n7	15	20	507000	1@1	DFT_QAM64	21.76
n7	15	20	507000	1@1	DFT_QAM256	19.7
n7	15	20	507000	1@1	CP_QPSK	23.4
n7	15	20	512000	1@1	DFT_BPSK	22.85
n7	15	20	512000	100@0	DFT_QPSK	23.11



n7	15	20	512000	50@25	DFT_QPSK	23.11
n7	15	20	512000	1@1	DFT_QPSK	22.8
n7	15	20	512000	1@104	DFT_QPSK	22.91
n7	15	20	512000	1@1	DFT_QAM16	22.58
n7	15	20	512000	1@1	DFT_QAM64	20.86
n7	15	20	512000	1@1	DFT_QAM256	19.25
n7	15	20	512000	1@1	CP_QPSK	22.76





Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)
n41	30	20	501204	1@1	DFT_BPSK	22.85
n41	30	20	501204	50@0	DFT_QPSK	22.89
n41	30	20	501204	25@12	DFT_QPSK	22.85
n41	30	20	501204	1@1	DFT_QPSK	22.85
n41	30	20	501204	1@49	DFT_QPSK	22.85
n41	30	20	501204	1@1	DFT_QAM16	22.83
n41	30	20	501204	1@1	DFT_QAM64	22.54
n41	30	20	501204	1@1	DFT_QAM256	22.06
n41	30	20	501204	1@1	CP_QPSK	22.84
n41	30	20	518598	1@1	DFT_BPSK	24.52
n41	30	20	518598	50@0	DFT_QPSK	24.68
n41	30	20	518598	25@12	DFT_QPSK	24.61
n41	30	20	518598	1@1	DFT_QPSK	24.53
n41	30	20	518598	1@49	DFT_QPSK	24.57
n41	30	20	518598	1@1	DFT_QAM16	24.41
n41	30	20	518598	1@1	DFT_QAM64	24.38
n41	30	20	518598	1@1	DFT_QAM256	23.82
n41	30	20	518598	1@1	CP_QPSK	24.53
n41	30	20	535998	1@1	DFT_BPSK	24.46
n41	30	20	535998	50@0	DFT_QPSK	24.53
n41	30	20	535998	25@12	DFT_QPSK	24.62
n41	30	20	535998	1@1	DFT_QPSK	24.46
n41	30	20	535998	1@49	DFT_QPSK	24.47
n41	30	20	535998	1@1	DFT_QAM16	24.26
n41	30	20	535998	1@1	DFT_QAM64	24.42
n41	30	20	535998	1@1	DFT_QAM256	23.77
n41	30	20	535998	1@1	CP_QPSK	24.47
n41	30	50	504204	1@1	DFT_BPSK	23.84
n41	30	50	504204	128@0	DFT_QPSK	23.99
n41	30	50	504204	64@32	DFT_QPSK	24.02
n41	30	50	504204	1@1	DFT_QPSK	23.87
n41	30	50	504204	1@131	DFT_QPSK	23.85
n41	30	50	504204	1@1	DFT_QAM16	23.64
n41	30	50	504204	1@1	DFT_QAM64	23.78
n41	30	50	504204	1@1	DFT_QAM256	23.12
n41	30	50	504204	1@1	CP_QPSK	23.86



n41	30	50	518598	1@1	DFT_BPSK	24.41
n41	30	50	518598	128@0	DFT_QPSK	24.57
n41	30	50	518598	64@32	DFT_QPSK	24.61
n41	30	50	518598	1@1	DFT_QPSK	24.42
n41	30	50	518598	1@131	DFT_QPSK	24.51
n41	30	50	518598	1@1	DFT_QAM16	24.2
n41	30	50	518598	1@1	DFT_QAM64	24.33
n41	30	50	518598	1@1	DFT_QAM256	23.68
n41	30	50	518598	1@1	CP_QPSK	24.41
n41	30	50	532998	1@1	DFT_BPSK	24.34
n41	30	50	532998	128@0	DFT_QPSK	24.46
n41	30	50	532998	64@32	DFT_QPSK	24.45
n41	30	50	532998	1@1	DFT_QPSK	24.35
n41	30	50	532998	1@131	DFT_QPSK	24.47
n41	30	50	532998	1@1	DFT_QAM16	24.15
n41	30	50	532998	1@1	DFT_QAM64	24.04
n41	30	50	532998	1@1	DFT_QAM256	23.7
n41	30	50	532998	1@1	CP_QPSK	24.33
n41	30	100	509202	1@1	DFT_BPSK	23.47
n41	30	100	509202	270@0	DFT_QPSK	23.47
n41	30	100	509202	135@67	DFT_QPSK	23.6
n41	30	100	509202	1@1	DFT_QPSK	23.46
n41	30	100	509202	1@271	DFT_QPSK	23.3
n41	30	100	509202	1@1	DFT_QAM16	23.28
n41	30	100	509202	1@1	DFT_QAM64	23.41
n41	30	100	509202	1@1	DFT_QAM256	22.87
n41	30	100	509202	1@1	CP_QPSK	23.46
n41	30	100	518598	1@1	DFT_BPSK	24.35
n41	30	100	518598	270@0	DFT_QPSK	24.44
n41	30	100	518598	135@67	DFT_QPSK	24.39
n41	30	100	518598	1@1	DFT_QPSK	24.35
n41	30	100	518598	1@271	DFT_QPSK	24.17
n41	30	100	518598	1@1	DFT_QAM16	24.25
n41	30	100	518598	1@1	DFT_QAM64	24.15
n41	30	100	518598	1@1	DFT_QAM256	23.61
n41	30	100	518598	1@1	CP_QPSK	24.34
n41	30	100	528000	1@1	DFT_BPSK	24.19
n41	30	100	528000	270@0	DFT_QPSK	24.2



n41	30	100	528000	135@67	DFT_QPSK	24.15
n41	30	100	528000	1@1	DFT_QPSK	24.2
n41	30	100	528000	1@271	DFT_QPSK	24.25
n41	30	100	528000	1@1	DFT_QAM16	24.01
n41	30	100	528000	1@1	DFT_QAM64	24.1
n41	30	100	528000	1@1	DFT_QAM256	23.46
n41	30	100	528000	1@1	CP_QPSK	24.21





Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)
n66	15	5	342500	1@1	DFT_BPSK	23.22
n66	15	5	342500	25@0	DFT_QPSK	23.22
n66	15	5	342500	12@6	DFT_QPSK	23.22
n66	15	5	342500	1@1	DFT_QPSK	23.19
n66	15	5	342500	1@23	DFT_QPSK	23.22
n66	15	5	342500	1@1	DFT_QAM16	23.12
n66	15	5	342500	1@1	DFT_QAM64	21.51
n66	15	5	342500	1@1	DFT_QAM256	19.3
n66	15	5	342500	1@1	CP_QPSK	23.21
n66	15	5	349000	1@1	DFT_BPSK	23.06
n66	15	5	349000	25@0	DFT_QPSK	23.24
n66	15	5	349000	12@6	DFT_QPSK	23.24
n66	15	5	349000	1@1	DFT_QPSK	23.15
n66	15	5	349000	1@23	DFT_QPSK	23.21
n66	15	5	349000	1@1	DFT_QAM16	23.03
n66	15	5	349000	1@1	DFT_QAM64	21.51
n66	15	5	349000	1@1	DFT_QAM256	19.38
n66	15	5	349000	1@1	CP_QPSK	23.16
n66	15	5	355500	1@1	DFT_BPSK	23.07
n66	15	5	355500	25@0	DFT_QPSK	23.17
n66	15	5	355500	12@6	DFT_QPSK	23.18
n66	15	5	355500	1@1	DFT_QPSK	23.07
n66	15	5	355500	1@23	DFT_QPSK	23.07
n66	15	5	355500	1@1	DFT_QAM16	23.12
n66	15	5	355500	1@1	DFT_QAM64	21.55
n66	15	5	355500	1@1	DFT_QAM256	19.39
n66	15	5	355500	1@1	CP_QPSK	23.06
n66	15	15	343500	1@1	DFT_BPSK	22.95
n66	15	15	343500	75@0	DFT_QPSK	23.21
n66	15	15	343500	36@18	DFT_QPSK	23.15
n66	15	15	343500	1@1	DFT_QPSK	22.95
n66	15	15	343500	1@77	DFT_QPSK	23.04
n66	15	15	343500	1@1	DFT_QAM16	23.18
n66	15	15	343500	1@1	DFT_QAM64	21.39
n66	15	15	343500	1@1	DFT_QAM256	19.24
n66	15	15	343500	1@1	CP_QPSK	22.95



n66	15	15	349000	1@1	DFT_BPSK	22.98
n66	15	15	349000	75@0	DFT_QPSK	23.13
n66	15	15	349000	36@18	DFT_QPSK	23.05
n66	15	15	349000	1@1	DFT_QPSK	22.98
n66	15	15	349000	1@77	DFT_QPSK	23.01
n66	15	15	349000	1@1	DFT_QAM16	22.8
n66	15	15	349000	1@1	DFT_QAM64	21.39
n66	15	15	349000	1@1	DFT_QAM256	19.3
n66	15	15	349000	1@1	CP_QPSK	22.96
n66	15	15	354500	1@1	DFT_BPSK	22.87
n66	15	15	354500	75@0	DFT_QPSK	23.02
n66	15	15	354500	36@18	DFT_QPSK	23.02
n66	15	15	354500	1@1	DFT_QPSK	22.86
n66	15	15	354500	1@77	DFT_QPSK	22.97
n66	15	15	354500	1@1	DFT_QAM16	22.71
n66	15	15	354500	1@1	DFT_QAM64	21.2
n66	15	15	354500	1@1	DFT_QAM256	19.23
n66	15	15	354500	1@1	CP_QPSK	22.96
n66	15	20	344000	1@1	DFT_BPSK	22.99
n66	15	20	344000	100@0	DFT_QPSK	23.2
n66	15	20	344000	50@25	DFT_QPSK	23.08
n66	15	20	344000	1@1	DFT_QPSK	22.99
n66	15	20	344000	1@104	DFT_QPSK	23.15
n66	15	20	344000	1@1	DFT_QAM16	22.93
n66	15	20	344000	1@1	DFT_QAM64	21.43
n66	15	20	344000	1@1	DFT_QAM256	19.38
n66	15	20	344000	1@1	CP_QPSK	22.99
n66	15	20	349000	1@1	DFT_BPSK	22.99
n66	15	20	349000	100@0	DFT_QPSK	23.08
n66	15	20	349000	50@25	DFT_QPSK	23.07
n66	15	20	349000	1@1	DFT_QPSK	23
n66	15	20	349000	1@104	DFT_QPSK	23.08
n66	15	20	349000	1@1	DFT_QAM16	22.81
n66	15	20	349000	1@1	DFT_QAM64	21.4
n66	15	20	349000	1@1	DFT_QAM256	19.23
n66	15	20	349000	1@1	CP_QPSK	22.99
n66	15	20	354000	1@1	DFT_BPSK	22.94
n66	15	20	354000	100@0	DFT_QPSK	23.03



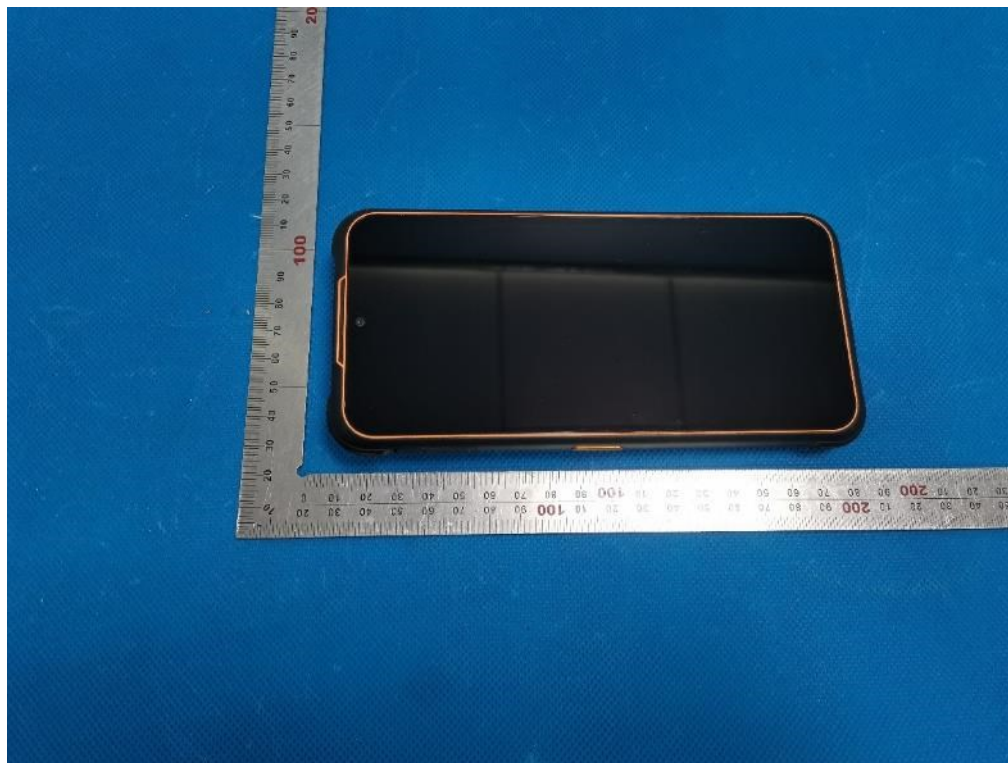
n66	15	20	354000	50@25	DFT_QPSK	23.07
n66	15	20	354000	1@1	DFT_QPSK	22.94
n66	15	20	354000	1@104	DFT_QPSK	22.98
n66	15	20	354000	1@1	DFT_QAM16	22.89
n66	15	20	354000	1@1	DFT_QAM64	21.35
n66	15	20	354000	1@1	DFT_QAM256	19.22
n66	15	20	354000	1@1	CP_QPSK	22.94



11. EUT and Test Setup Photo

11.1 EUT Photo

Front side



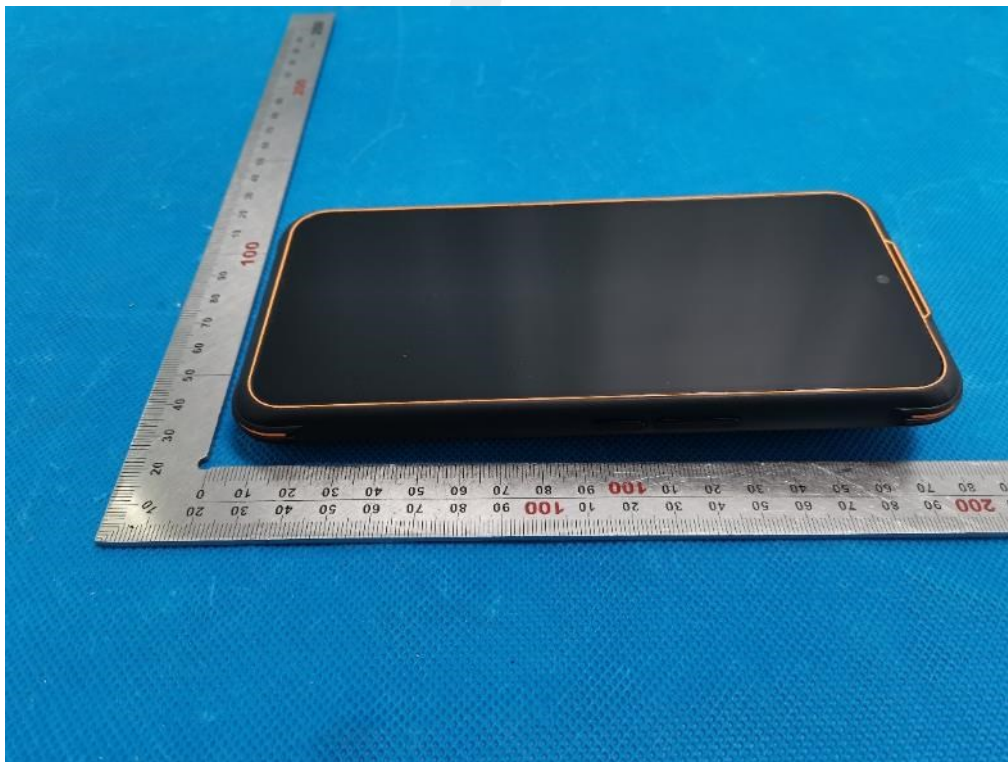
Back side



Left Edge



Right Edge





Top Edge



Bottom Edge



11.2 Setup Photo

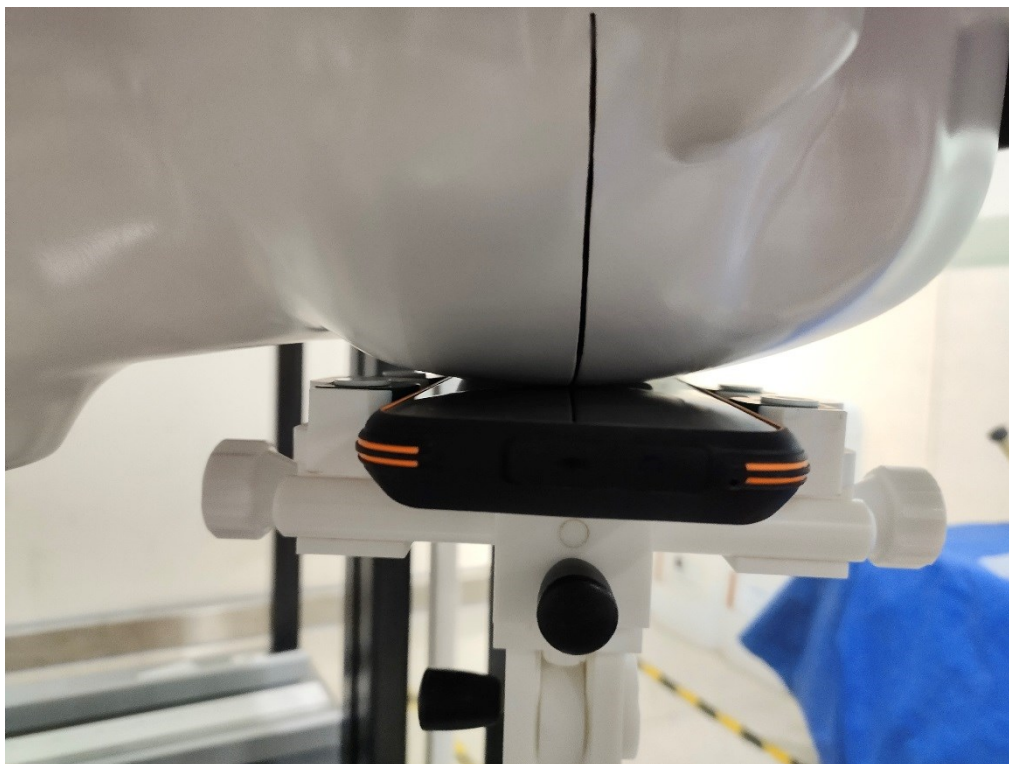
Right Cheek



Right Tilt



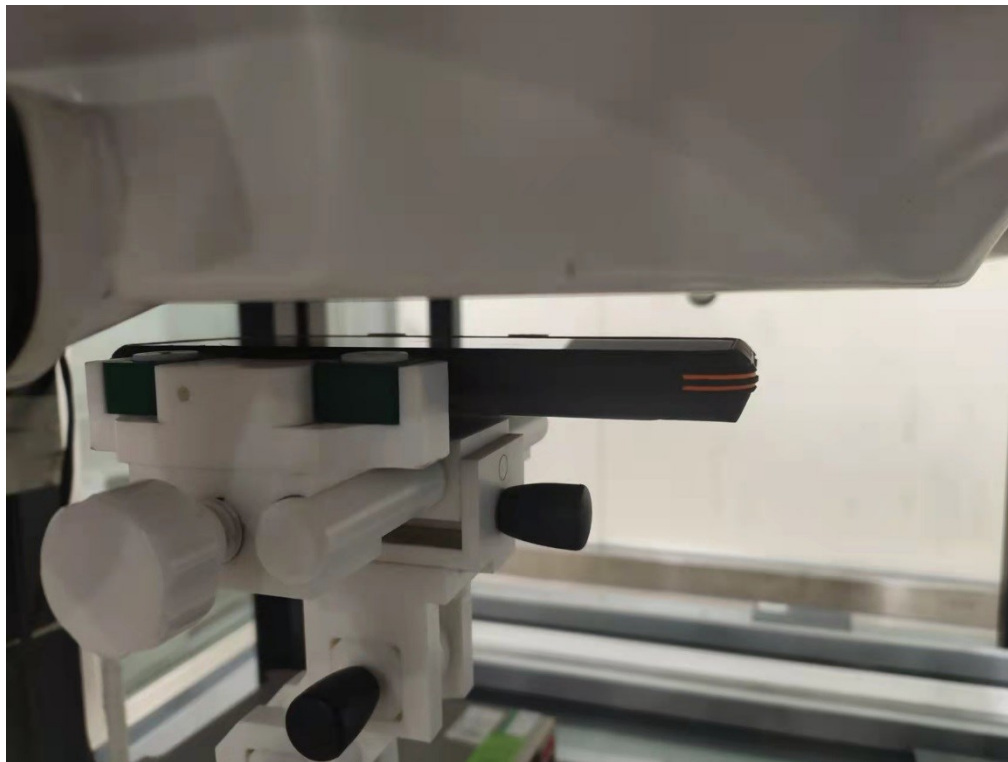
Left Cheek



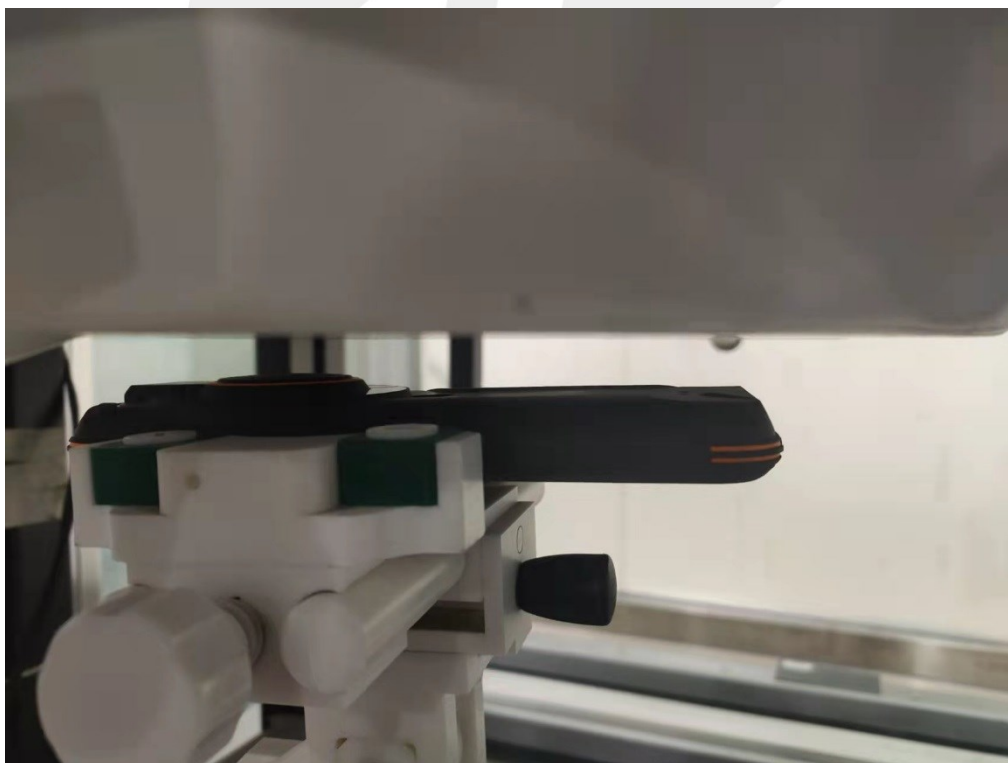
Left Tilt



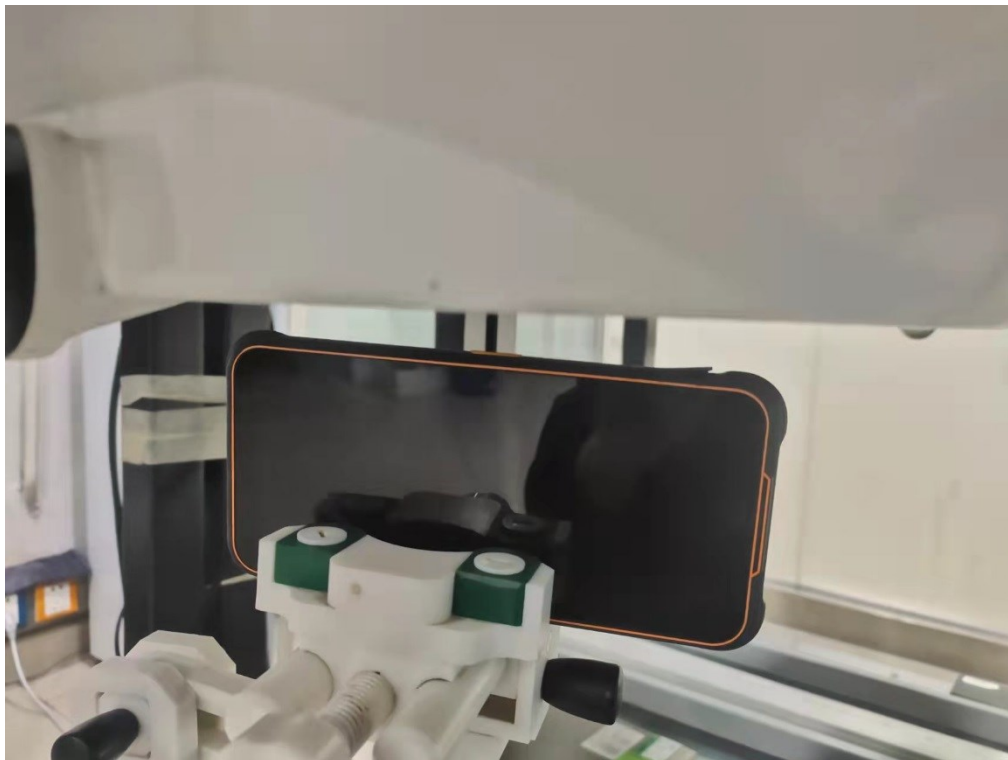
Body Front side(separation distance is 10mm)



Body Back side(separation distance is 10mm)



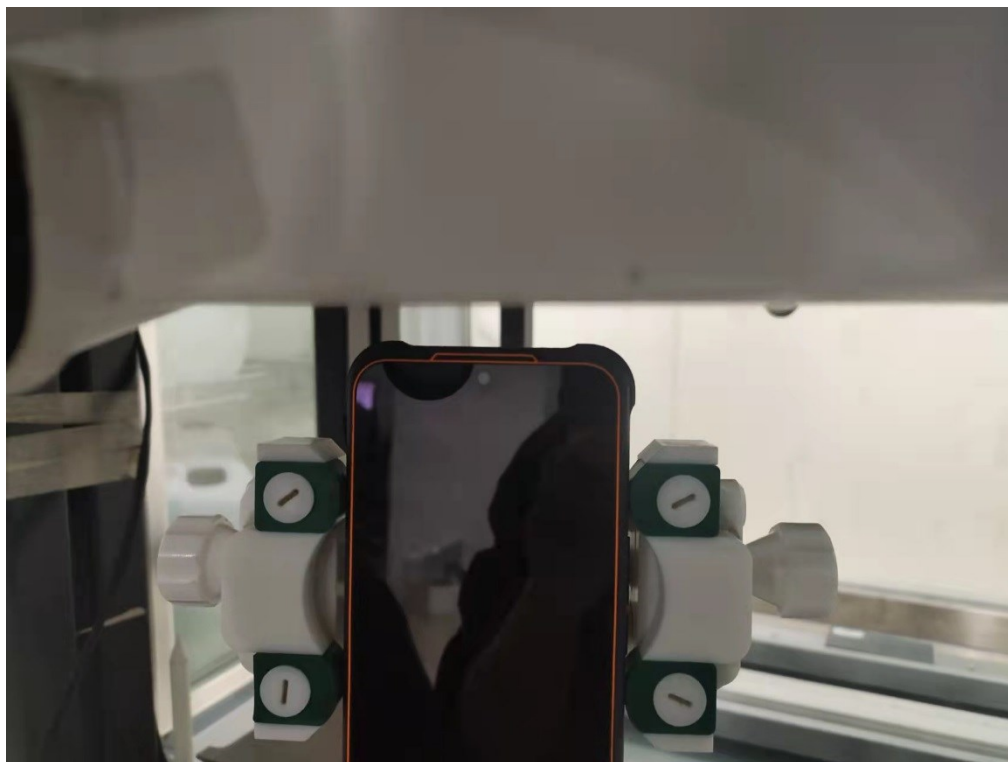
Body Left side(separation distance is 10mm)



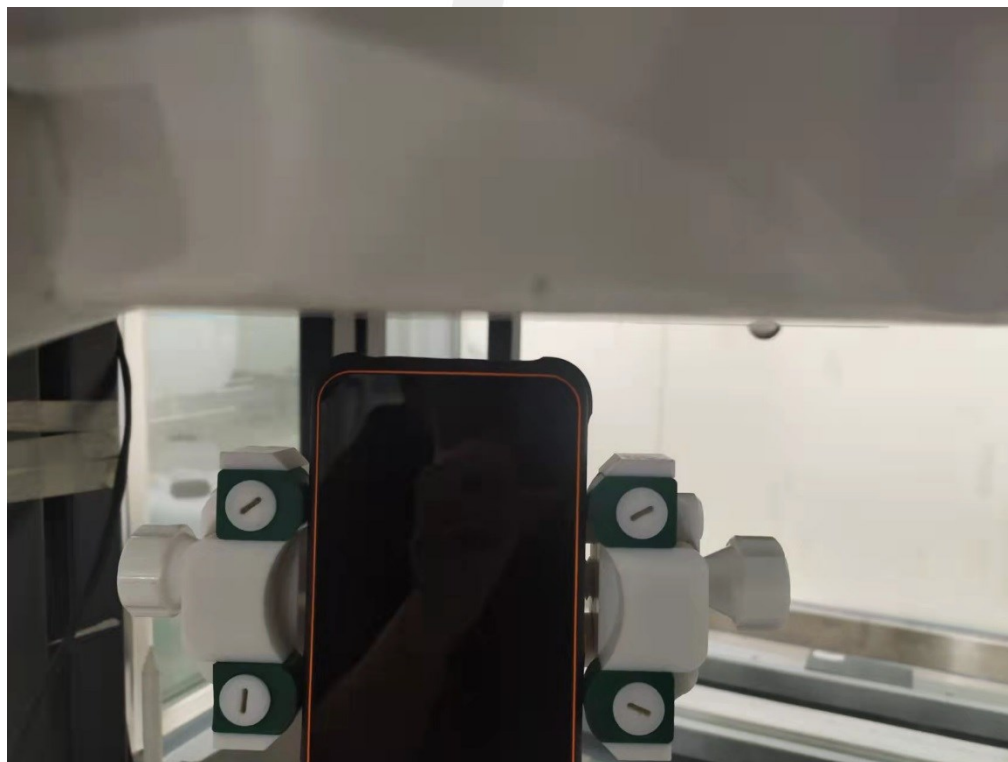
Body Right side(separation distance is 10mm)



Body Bottom side(separation distance is 10mm)

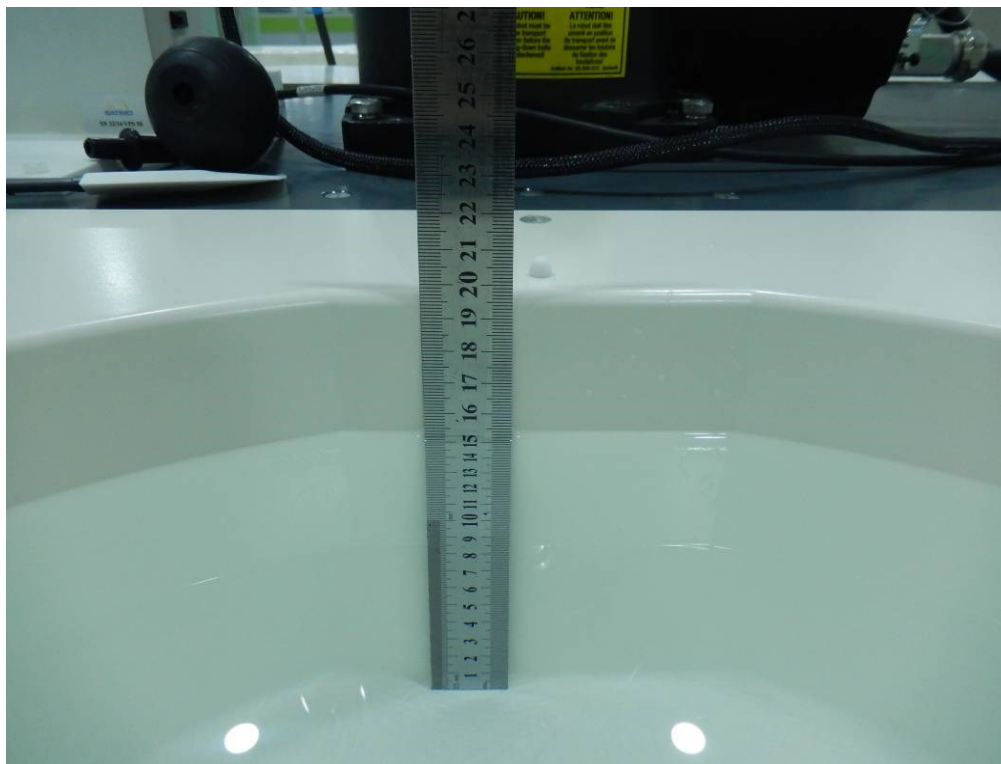


Body Top side(separation distance is 10mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

Band	Model	Test Position	Frequency (MHz)	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM850	GPRS (GMSK, 3-Slot)	Right Cheek	848.8	0.124	-2.36	29.00	28.71	0.133	/
		Right Tilt	848.8	0.112	3.39	29.00	28.71	0.120	/
		Left Cheek	848.8	0.162	2.22	29.00	28.71	0.173	1
		Left Tilt	848.8	0.131	0.98	29.00	28.71	0.140	/
GSM1900	GPRS (GMSK, 4-Slot)	Right Cheek	1850.2	0.128	0.94	25.00	24.58	0.141	/
		Right Tilt	1850.2	0.114	-3.43	25.00	24.58	0.126	/
		Left Cheek	1850.2	0.206	-1.10	25.00	24.58	0.227	3
		Left Tilt	1850.2	0.103	0.16	25.00	24.58	0.113	/
WCDMA Band II	RMC	Right Cheek	1880	0.158	-1.57	17.50	17.47	0.159	/
		Right Tilt	1880	0.134	1.64	17.50	17.47	0.135	/
		Left Cheek	1880	0.323	-2.33	17.50	17.47	0.325	5
		Left Tilt	1880	0.211	-2.68	17.50	17.47	0.212	/
WCDMA Band IV	RMC	Right Cheek	1712.4	0.122	0.32	20.00	19.67	0.132	/
		Right Tilt	1712.4	0.111	0.63	20.00	19.67	0.120	/
		Left Cheek	1712.4	0.247	-3.61	20.00	19.67	0.266	7
		Left Tilt	1712.4	0.124	1.31	20.00	19.67	0.134	/
WCDMA Band V	RMC	Right Cheek	826.4	0.133	3.31	23.00	22.97	0.134	9
		Right Tilt	826.4	0.120	-2.87	23.00	22.97	0.121	/
		Left Cheek	826.4	0.126	-2.06	23.00	22.97	0.127	/
		Left Tilt	826.4	0.113	-2.07	23.00	22.97	0.114	/
SA N2	20MHz 100RB Offset 0	Right Cheek	1860	0.081	-2.06	22.00	21.90	0.083	/
		Right Tilt	1860	0.041	-3.35	22.00	21.90	0.042	/
		Left Cheek	1860	0.090	0.46	22.00	21.90	0.092	11
		Left Tilt	1860	0.051	-2.33	22.00	21.90	0.052	/
SA N5	20MHz 1RB Offset 0	Right Cheek	836.5	0.035	2.70	23.50	23.40	0.036	/
		Right Tilt	836.5	0.024	-2.26	23.50	23.40	0.025	/
		Left Cheek	836.5	0.041	0.36	23.50	23.40	0.042	13
		Left Tilt	836.5	0.026	2.98	23.50	23.40	0.027	/
SA N7	20MHz 50RB Offset 0	Right Cheek	2535	0.352	3.83	24.00	23.54	0.391	/
		Right Tilt	2535	0.154	1.49	24.00	23.54	0.171	/
		Left Cheek	2535	0.363	-0.76	24.00	23.54	0.404	15
		Left Tilt	2535	0.165	3.14	24.00	23.54	0.183	/



SA N41	100MHz 100RB Offset 0	Right Cheek	2593	0.058	0.03	24.50	24.44	0.059	/
		Right Tilt	2593	0.024	2.69	24.50	24.44	0.024	/
		Left Cheek	2593	0.069	0.28	24.50	24.44	0.070	17
		Left Tilt	2593	0.035	3.51	24.50	24.44	0.035	/
SA N66	20MHz 100RB Offset 0	Right Cheek	1720	0.198	-3.20	23.50	23.20	0.212	/
		Right Tilt	1720	0.054	-0.71	23.50	23.20	0.058	/
		Left Cheek	1720	0.214	0.27	23.50	23.20	0.229	19
		Left Tilt	1720	0.098	-2.11	23.50	23.20	0.105	/
2.4GHz WLAN ANT1	802.11b	Right Cheek	2412	0.285	-1.16	15.50	15.13	0.310	/
		Right Tilt	2412	0.154	0.04	15.50	15.13	0.168	/
		Left Cheek	2412	0.316	0.82	15.50	15.13	0.344	21
		Left Tilt	2412	0.168	-2.50	15.50	15.13	0.183	/
2.4GHz WLAN ANT2	802.11b	Right Cheek	2412	0.034	3.86	13.50	13.04	0.038	23
		Right Tilt	2412	0.024	-0.66	13.50	13.04	0.027	/
		Left Cheek	2412	0.029	3.74	13.50	13.04	0.032	/
		Left Tilt	2412	0.015	1.52	13.50	13.04	0.017	/
2.4GHz WLAN N40 ANT1	802.11 n- HT40	Right Cheek	2422	0.354	-0.53	16.50	16.47	0.356	/
		Right Tilt	2422	0.168	-2.90	16.50	16.47	0.169	/
		Left Cheek	2422	0.375	-0.34	16.50	16.47	0.378	25
		Left Tilt	2422	0.157	1.61	16.50	16.47	0.158	/
2.4GHz WLAN N40 ANT2	802.11 n- HT40	Right Cheek	2422	0.028	0.81	16.50	16.47	0.028	/
		Right Tilt	2422	0.015	0.45	16.50	16.47	0.015	/
		Left Cheek	2422	0.036	0.96	16.50	16.47	0.036	27
		Left Tilt	2422	0.013	1.66	16.50	16.47	0.013	/
5.2GHz WLAN ANT1	802.11a	Right Cheek	5180	0.112	-1.40	15.00	14.65	0.121	29
		Right Tilt	5180	0.051	-0.05	15.00	14.65	0.055	/
		Left Cheek	5180	0.110	1.68	15.00	14.65	0.119	/
		Left Tilt	5180	0.048	3.84	15.00	14.65	0.052	/
5.2GHz WLAN ANT2	802.11a	Right Cheek	5180	0.167	2.96	14.20	14.18	0.168	31
		Right Tilt	5180	0.085	0.54	14.20	14.18	0.085	/
		Left Cheek	5180	0.154	-2.68	14.20	14.18	0.155	/
		Left Tilt	5180	0.098	3.58	14.20	14.18	0.098	/
5.2GHz WLAN N40 ANT1	802.11 n- HT40	Right Cheek	5190	0.224	3.78	17.50	17.38	0.230	33
		Right Tilt	5190	0.124	-2.25	17.50	17.38	0.127	/
		Left Cheek	5190	0.210	2.80	17.50	17.38	0.216	/
		Left Tilt	5190	0.102	-3.84	17.50	17.38	0.105	/



5.2GHz WLAN N40 ANT2	802.11 n- HT40	Right Cheek	5190	0.185	3.10	17.50	17.38	0.190	35
		Right Tilt	5190	0.041	-0.81	17.50	17.38	0.042	/
		Left Cheek	5190	0.075	0.62	17.50	17.38	0.077	/
		Left Tilt	5190	0.028	-3.17	17.50	17.38	0.029	/
5.3GHz WLAN ANT1	802.11a	Right Cheek	5320	0.107	3.07	16.50	16.42	0.109	37
		Right Tilt	5320	0.054	3.38	16.50	16.42	0.055	/
		Left Cheek	5320	0.098	-2.56	16.50	16.42	0.100	/
		Left Tilt	5320	0.045	1.73	16.50	16.42	0.046	/
5.3GHz WLAN ANT2	802.11a	Right Cheek	5320	0.355	1.62	16.00	15.89	0.364	39
		Right Tilt	5320	0.154	-3.20	16.00	15.89	0.158	/
		Left Cheek	5320	0.321	-2.51	16.00	15.89	0.329	/
		Left Tilt	5320	0.135	0.71	16.00	15.89	0.138	/
5.3GHz WLAN N20 ANT1	802.11 n- HT20	Right Cheek	5300	0.125	2.74	18.00	17.63	0.136	41
		Right Tilt	5300	0.054	-3.31	18.00	17.63	0.059	/
		Left Cheek	5300	0.114	2.09	18.00	17.63	0.124	/
		Left Tilt	5300	0.035	-0.62	18.00	17.63	0.038	/
5.3GHz WLAN N20 ANT2	802.11 n- HT20	Right Cheek	5300	0.131	-2.98	18.00	17.63	0.143	43
		Right Tilt	5300	0.024	-1.04	18.00	17.63	0.026	/
		Left Cheek	5300	0.099	-2.38	18.00	17.63	0.108	/
		Left Tilt	5300	0.014	-3.58	18.00	17.63	0.015	/
5.6GHz WLAN ANT1	802.11a	Right Cheek	5700	0.103	1.02	16.00	15.99	0.103	45
		Right Tilt	5700	0.048	-0.37	16.00	15.99	0.048	/
		Left Cheek	5700	0.089	0.33	16.00	15.99	0.089	/
		Left Tilt	5700	0.025	2.50	16.00	15.99	0.025	/
5.6GHz WLAN ANT2	802.11a	Right Cheek	5700	0.106	2.82	15.00	14.71	0.113	47
		Right Tilt	5700	0.047	-1.74	15.00	14.71	0.050	/
		Left Cheek	5700	0.097	-3.23	15.00	14.71	0.104	/
		Left Tilt	5700	0.034	-2.96	15.00	14.71	0.036	/
5.6GHz WLAN N20 ANT1	802.11 n- HT20	Right Cheek	5700	0.105	-1.05	17.50	17.19	0.113	49
		Right Tilt	5700	0.064	1.31	17.50	17.19	0.069	/
		Left Cheek	5700	0.087	2.96	17.50	17.19	0.093	/
		Left Tilt	5700	0.035	3.39	17.50	17.19	0.038	/
5.6GHz WLAN N20 ANT2	802.11 n- HT20	Right Cheek	5700	0.124	-2.28	17.50	17.19	0.133	51
		Right Tilt	5700	0.067	-3.82	17.50	17.19	0.072	/
		Left Cheek	5700	0.114	1.77	17.50	17.19	0.122	/
		Left Tilt	5700	0.058	-0.30	17.50	17.19	0.062	/



5.8GHz WLAN ANT1	802.11a	Right Cheek	5825	0.142	-2.33	13.50	13.11	0.155	53
		Right Tilt	5825	0.067	-2.46	13.50	13.11	0.073	/
		Left Cheek	5825	0.138	-1.31	13.50	13.11	0.151	/
		Left Tilt	5825	0.058	-3.59	13.50	13.11	0.063	/
5.8GHz WLAN ANT2	802.11a	Right Cheek	5825	0.088	3.31	13.00	12.83	0.092	55
		Right Tilt	5825	0.046	0.52	13.00	12.83	0.048	/
		Left Cheek	5825	0.082	0.34	13.00	12.83	0.085	/
		Left Tilt	5825	0.054	-0.53	13.00	12.83	0.056	/
5.8GHz WLAN ac20 ANT1	802.11ac20	Right Cheek	5745	0.066	3.68	16.00	15.74	0.070	57
		Right Tilt	5745	0.025	-3.55	16.00	15.74	0.027	/
		Left Cheek	5745	0.045	-2.88	16.00	15.74	0.048	/
		Left Tilt	5745	0.240	-2.13	16.00	15.74	0.255	/
5.8GHz WLAN ac20 ANT2	802.11ac20	Right Cheek	5745	0.328	2.29	16.00	15.74	0.348	59
		Right Tilt	5745	0.124	-1.15	16.00	15.74	0.132	/
		Left Cheek	5745	0.314	-3.11	16.00	15.74	0.333	/
		Left Tilt	5745	0.137	3.08	16.00	15.74	0.145	/

Band	Mode	Max SAR (W/Kg)	802.11 n-HT40 ANT 1+2
2.4G WLAN	802.11 n-HT40 ANT 1	0.378	0.414
	802.11 n-HT40 ANT 2	0.036	

Band	Mode	Max SAR (W/Kg)	802.11 n-HT40 ANT 1+2
5.2G WLAN	802.11 n-HT40 ANT 1	0.23	0.420
	802.11 n-HT40 ANT 2	0.19	

Band	Mode	Max SAR (W/Kg)	802.11 n-HT20 ANT 1+2
5.3G WLAN	802.11 n-HT20 ANT 1	0.136	0.279
	802.11 n-HT20 ANT 2	0.143	

Band	Mode	Max SAR (W/Kg)	802.11 n-HT20 ANT 1+2
5.6G WLAN	802.11 n-HT20 ANT 1	0.113	0.246
	802.11 n-HT20 ANT 2	0.133	



Band	Mode	Max SAR (W/Kg)	802.11 ac-VHT20 ANT 1+2
5.8G WLAN	802.11 ac-VHT20 ANT 1	0.07	0.418
	802.11 ac-VHT20 ANT 2	0.348	





Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Frequency (MHz)	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	99	Right Cheek	1860	0.148	3.31	18.5	18.12	0.162	/
			50	49	Right Cheek	1860	0.135	1.76	17.5	17.19	0.145	/
			1	99	Right Tilt	1860	0.025	1.68	18.5	18.12	0.027	/
			50	49	Right Tilt	1860	0.035	-3.21	17.5	17.19	0.038	/
			1	99	Left Cheek	1860	0.279	-0.32	18.5	18.12	0.305	61
			50	49	Left Cheek	1860	0.254	0.70	17.5	17.19	0.273	/
			1	99	Left Tilt	1860	0.102	-0.47	18.5	18.12	0.111	/
			50	49	Left Tilt	1860	0.098	-3.89	17.5	17.19	0.105	/
LTE Band 4	20M	QPSK	1	49	Right Cheek	1720	0.121	-3.86	22.5	22.08	0.133	/
			25	24	Right Cheek	1720	0.112	-2.54	21.5	21.13	0.122	/
			1	0	Right Tilt	1720	0.054	-1.28	22.5	22.08	0.059	/
			50	0	Right Tilt	1720	0.064	-0.50	21.5	21.13	0.070	/
			1	0	Left Cheek	1720	0.215	-3.40	22.5	22.08	0.237	63
			50	0	Left Cheek	1720	0.201	-0.25	21.5	21.13	0.219	/
			1	0	Left Tilt	1720	0.102	1.63	22.5	22.08	0.112	/
			50	0	Left Tilt	1720	0.106	0.75	21.5	21.13	0.115	/



LTE Band 5	10M	QPSK	1	49	Right Cheek	836.5	0.158	-1.15	23	22.77	0.167	65
			25	24	Right Cheek	844	0.145	-3.41	22	21.91	0.148	/
			1	49	Right Tilt	836.5	0.085	0.68	23	22.77	0.090	/
			25	24	Right Tilt	844	0.074	3.68	22	21.91	0.076	/
			1	49	Left Cheek	836.5	0.146	-3.66	23	22.77	0.154	/
			25	24	Left Cheek	844	0.142	0.79	22	21.91	0.145	/
			1	49	Left Tilt	836.5	0.065	-2.56	23	22.77	0.069	/
			25	24	Left Tilt	844	0.069	-2.87	22	21.91	0.070	/
LTE Band 7	20M	QPSK	1	99	Right Cheek	2510	0.36	-3.66	23	22.56	0.398	/
			50	49	Right Cheek	2510	0.314	-2.15	22	21.63	0.342	/
			1	99	Right Tilt	2510	0.154	0.32	23	22.56	0.170	/
			50	49	Right Tilt	2510	0.125	-3.55	22	21.63	0.136	/
			1	99	Left Cheek	2510	0.403	-0.08	23	22.56	0.446	67
			50	49	Left Cheek	2510	0.389	0.08	22	21.63	0.424	/
			100	0	Left Cheek	2510	0.354	-3.32	22	21.05	0.441	/
			1	99	Left Tilt	2510	0.165	-2.36	23	22.56	0.183	/
			50	49	Left Tilt	2510	0.148	0.93	22	21.63	0.161	/



LTE Band 38	20M	QPSK	1	0	Right Cheek	2580	0.224	1.46	23	22.66	0.242	/
			50	24	Right Cheek	2580	0.214	-0.50	22	21.55	0.237	/
			1	0	Right Tilt	2580	0.124	-1.99	23	22.66	0.134	/
			50	24	Right Tilt	2580	0.134	-3.39	22	21.55	0.149	/
			1	0	Left Cheek	2580	0.262	-0.36	23	22.66	0.283	69
			50	24	Left Cheek	2580	0.254	2.95	22	21.55	0.282	/
			1	0	Left Tilt	2580	0.165	-2.18	23	22.66	0.178	/
			50	24	Left Tilt	2580	0.159	-3.66	22	21.55	0.176	/
LTE Band40	20M	QPSK	1	24	Right Cheek	2350	0.047	3.75	23.5	23.32	0.049	/
			25	24	Right Cheek	2350	0.041	3.10	22.5	22.44	0.042	/
			1	24	Right Tilt	2350	0.012	1.39	23.5	23.32	0.013	/
			25	24	Right Tilt	2350	0.024	2.52	22.5	22.44	0.024	/
			1	24	Left Cheek	2350	0.085	2.18	23.5	23.32	0.089	71
			25	24	Left Cheek	2350	0.075	0.35	22.5	22.44	0.076	/
			1	24	Left Tilt	2350	0.045	-2.72	23.5	23.32	0.047	/
			25	24	Left Tilt	2350	0.047	-3.93	22.5	22.44	0.048	/



LTE Band 41	20M	QPSK	1	99	Right Cheek	2506	0.132	-2.44	23.5	23.48	0.133	/
			50	49	Right Cheek	2506	0.142	-3.06	23	22.56	0.157	/
			1	99	Right Tilt	2506	0.052	-3.82	23.5	23.48	0.052	/
			50	49	Right Tilt	2506	0.065	-1.85	23	22.56	0.072	/
			1	99	Left Cheek	2506	0.223	0.30	23.5	23.48	0.224	73
			50	49	Left Cheek	2506	0.214	0.15	23	22.56	0.237	/
			1	99	Left Tilt	2506	0.089	-1.14	23.5	23.48	0.089	/
			50	49	Left Tilt	2506	0.084	1.82	23	22.56	0.093	/

Note:

1. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
2. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.217** W/Kg for Head)
3. Per KDB865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg



12.2 Body-worn and Hotspot SAR

Band	Model	Test Position	Frequency (MHz)	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM850	GPRS (GMSK, 3-Slot)	Front Side	848.8	0.183	1.71	29.00	28.71	0.196	/
		Back Side	848.8	0.346	0.57	29.00	28.71	0.370	2
		Left Edge	848.8	0.214	2.93	29.00	28.71	0.229	/
		Right Edge	848.8	0.184	-1.69	29.00	28.71	0.197	/
		Top Edge	848.8	0.021	-3.57	29.00	28.71	0.022	/
		Bottom Edge	848.8	0.146	3.77	29.00	28.71	0.156	/
GSM1900	GPRS (GMSK, 4-Slot)	Front Side	1850.2	0.118	-0.50	25.00	24.58	0.130	/
		Back Side	1850.2	0.330	-3.85	25.00	24.58	0.364	4
		Left Edge	1850.2	0.214	3.66	25.00	24.58	0.236	/
		Right Edge	1850.2	0.302	1.03	25.00	24.58	0.333	/
		Bottom Edge	1850.2	0.240	2.44	25.00	24.58	0.264	/
WCDMA Band II	RMC	Front Side	1880	0.454	2.32	17.50	17.47	0.457	/
		Back Side	1852.4	0.748	-3.02	17.50	17.39	0.767	/
		Back Side	1880	0.877	-1.10	17.50	17.47	0.883	6
		Back Side	1907.6	0.765	0.38	17.50	17.25	0.810	/
		Left Edge	1880	0.316	1.83	17.50	17.47	0.318	/
		Right Edge	1880	0.082	-0.38	17.50	17.47	0.083	/
		Bottom Edge	1880	0.569	-0.18	17.50	17.47	0.573	/
WCDMA Band IV	RMC	Front Side	1712.4	0.355	0.69	20.00	19.67	0.383	/
		Back Side	1712.4	0.610	-0.16	20.00	19.67	0.658	8
		Left Edge	1712.4	0.319	-1.96	20.00	19.67	0.344	/
		Right Edge	1712.4	0.042	-0.06	20.00	19.67	0.045	/
		Bottom Edge	1712.4	0.519	2.10	20.00	19.67	0.560	/
WCDMA Band V	RMC	Front Side	826.4	0.134	-1.42	23.00	22.97	0.135	/
		Back Side	826.4	0.206	-0.10	23.00	22.97	0.207	10
		Left Edge	826.4	0.046	-1.23	23.00	22.97	0.046	/
		Right Edge	826.4	0.113	-0.25	23.00	22.97	0.114	/
		Bottom Edge	826.4	0.094	-1.12	23.00	22.97	0.095	/
SA N2	20MHz 100RB Offset 0	Front Side	1860	0.310	-3.80	22.00	21.90	0.317	/
		Back Side	1860	0.371	-1.89	22.00	21.90	0.380	12
		Left Edge	1860	0.254	-0.36	22.00	21.90	0.260	/
		Right Edge	1860	0.265	2.68	22.00	21.90	0.271	/
		Bottom Edge	1860	0.263	2.49	22.00	21.90	0.269	/



SA N5	20MHz 1RB Offset 0	Front Side	836.5	0.050	1.53	23.50	23.40	0.051	/
		Back Side	836.5	0.053	-0.65	23.50	23.40	0.054	14
		Left Edge	836.5	0.036	-1.07	23.50	23.40	0.037	/
		Right Edge	836.5	0.029	-1.97	23.50	23.40	0.030	/
		Bottom Edge	836.5	0.024	3.71	23.50	23.40	0.025	/
SA N7	20MHz 50RB Offset 0	Front Side	2535	0.214	1.32	24.00	23.54	0.238	/
		Back Side	2535	0.233	0.65	24.00	23.54	0.259	16
		Left Edge	2535	0.165	3.34	24.00	23.54	0.183	/
		Right Edge	2535	0.147	3.47	24.00	23.54	0.163	/
		Bottom Edge	2535	0.156	3.86	24.00	23.54	0.173	/
SA N41	270MHz 106RB Offset 0	Front Side	2593	0.054	1.52	24.50	24.44	0.055	/
		Back Side	2593	0.063	-3.16	24.50	24.44	0.064	18
		Left Edge	2593	0.035	-2.17	24.50	24.44	0.035	/
		Right Edge	2593	0.036	1.06	24.50	24.44	0.037	/
		Bottom Edge	2593	0.041	-1.30	24.50	24.44	0.042	/
SA N66	20MHz 100RB Offset 0	Front Side	1720	0.510	0.25	23.50	23.20	0.546	/
		Back Side	1720	0.525	-0.58	23.50	23.20	0.563	20
		Left Edge	1720	0.354	2.47	23.50	23.20	0.379	/
		Right Edge	1720	0.369	-0.57	23.50	23.20	0.395	/
		Bottom Edge	1720	0.362	-1.54	23.50	23.20	0.388	/
2.4GHz WLAN ANT1	802.11b	Front Side	2412	0.072	3.83	15.50	15.13	0.078	/
		Back Side	2412	0.086	-1.63	15.50	15.13	0.094	22
		Right Edge	2412	0.054	-3.38	15.50	15.13	0.059	/
		Top Edge	2412	0.062	-3.57	15.50	15.13	0.068	/
2.4GHz WLAN ANT2	802.11b	Front Side	2412	0.031	-2.11	13.50	13.04	0.034	/
		Back Side	2412	0.142	0.40	13.50	13.04	0.158	24
		Right Edge	2412	0.032	-2.67	13.50	13.04	0.036	/
2.4GHz WLAN N40 ANT1	802.11 n- HT40	Front Side	2442	0.072	1.54	16.50	16.47	0.072	/
		Back Side	2442	0.078	-3.04	16.50	16.47	0.079	26
		Right Edge	2442	0.062	3.34	16.50	16.47	0.062	/
		Top Edge	2442	0.058	-2.68	16.50	16.47	0.058	/
2.4GHz WLAN N40 ANT2	802.11 n- HT40	Front Side	2442	0.115	-3.25	16.50	16.47	0.116	/
		Back Side	2442	0.127	-1.30	16.50	16.47	0.128	28
		Right Edge	2442	0.098	1.13	16.50	16.47	0.099	/



5.2GHz WLAN ANT1	802.11a	Front Side	5180	0.038	-2.24	15.00	14.65	0.041	/
		Back Side	5180	0.043	2.09	15.00	14.65	0.047	30
		Right Edge	5180	0.028	-2.29	15.00	14.65	0.030	/
		Top Edge	5180	0.026	-3.72	15.00	14.65	0.028	/
5.2GHz WLAN ANT2	802.11a	Front Side	5180	0.542	-2.64	14.20	14.18	0.545	/
		Back Side	5180	0.563	2.87	14.20	14.18	0.566	32
		Right Edge	5180	0.495	-0.06	14.20	14.18	0.497	/
5.2GHz WLAN N40 ANT1	802.11 n- HT40	Front Side	5190	0.051	2.79	17.50	17.38	0.052	/
		Back Side	5190	0.063	1.85	17.50	17.38	0.065	34
		Right Edge	5190	0.048	0.43	17.50	17.38	0.049	/
		Top Edge	5190	0.051	-1.57	17.50	17.38	0.052	/
5.2GHz WLAN N40 ANT2	802.11 n- HT40	Front Side	5190	0.354	-0.80	17.50	17.38	0.364	/
		Back Side	5190	0.367	1.11	17.50	17.38	0.377	36
		Right Edge	5190	0.255	-2.75	17.50	17.38	0.263	/
		Bottom Edge	5190	0.236	0.83	17.50	17.38	0.243	/
5.3GHz WLAN ANT1	802.11a	Front Side	5320	0.062	2.34	16.50	16.42	0.063	38
		Back Side	5320	0.068	0.36	16.50	16.42	0.069	/
		Right Edge	5320	0.054	3.68	16.50	16.42	0.055	/
		Top Edge	5320	0.036	-3.53	16.50	16.42	0.037	/
		Bottom Edge	5320	0.035	1.43	16.50	16.42	0.036	/
5.3GHz WLAN ANT2	802.11a	Front Side	5320	0.412	-3.03	16.00	15.89	0.423	/
		Back Side	5320	0.489	-2.31	16.00	15.89	0.502	40
		Right Edge	5320	0.356	-0.16	16.00	15.89	0.365	/
5.3GHz WLAN N20 ANT1	802.11 n- HT20	Front Side	5300	0.051	-1.17	18.00	17.63	0.056	/
		Back Side	5300	0.061	-3.47	18.00	17.63	0.066	42
		Right Edge	5300	0.048	-2.33	18.00	17.63	0.052	/
		Top Edge	5300	0.042	-3.01	18.00	17.63	0.046	/
		Bottom Edge	5300	0.038	1.40	18.00	17.63	0.041	/
5.3GHz WLAN N20 ANT2	802.11 n- HT20	Front Side	5300	0.057	-2.09	18.00	17.63	0.062	/
		Back Side	5300	0.067	3.59	18.00	17.63	0.073	44
		Right Edge	5300	0.048	-3.70	18.00	17.63	0.052	/
5.6GHz WLAN ANT1	802.11a	Front Side	5700	0.053	3.16	16.00	15.99	0.053	/
		Back Side	5700	0.059	0.10	16.00	15.99	0.059	46
		Right Edge	5700	0.038	1.46	16.00	15.99	0.038	/
		Top Edge	5700	0.040	2.93	16.00	15.99	0.040	/
		Bottom Edge	5700	0.034	-0.15	16.00	15.99	0.034	/



5.6GHz WLAN ANT2	802.11a	Front Side	5700	0.421	1.67	15.00	14.71	0.450	/
		Back Side	5700	0.458	0.58	15.00	14.71	0.490	48
		Right Edge	5700	0.354	-2.41	15.00	14.71	0.378	/
5.6GHz WLAN N20 ANT1	802.11 n- HT20	Front Side	5700	0.062	-1.93	17.50	17.19	0.067	/
		Back Side	5700	0.070	2.62	17.50	17.19	0.075	50
		Right Edge	5700	0.048	3.61	17.50	17.19	0.052	/
		Top Edge	5700	0.053	-3.82	17.50	17.19	0.057	/
		Bottom Edge	5700	0.025	0.20	17.50	17.19	0.027	/
5.6GHz WLAN N20 ANT2	802.11 n- HT20	Front Side	5700	0.054	1.06	17.50	17.19	0.058	/
		Back Side	5700	0.060	-3.47	17.50	17.19	0.064	52
		Right Edge	5700	0.049	1.70	17.50	17.19	0.053	/
		Bottom Edge	5700	0.046	-1.63	17.50	17.19	0.049	/
5.8GHz WLAN ANT1	802.11a	Front Side	5825	0.072	-3.70	13.50	13.11	0.079	/
		Back Side	5825	0.079	3.43	13.50	13.11	0.086	54
		Right Edge	5825	0.057	1.97	13.50	13.11	0.062	/
		Top Edge	5825	0.049	0.68	13.50	13.11	0.054	/
5.8GHz WLAN ANT2	802.11a	Front Side	5825	0.310	-1.11	12.50	12.83	0.287	/
		Back Side	5825	0.332	-3.40	12.50	12.83	0.308	56
		Right Edge	5825	0.258	2.91	12.50	12.83	0.239	/
5.8GHz WLAN ac20 ANT1	802.11ac20	Front Side	5745	0.047	3.51	16.00	15.74	0.050	/
		Back Side	5745	0.058	3.96	16.00	15.74	0.062	58
		Right Edge	5745	0.042	-1.32	16.00	15.74	0.045	/
		Top Edge	5745	0.038	-2.63	16.00	15.74	0.040	/
5.8GHz WLAN ac20 ANT2	802.11ac20	Front Side	5745	0.311	-1.57	16.00	15.74	0.330	/
		Back Side	5745	0.323	-1.37	16.00	15.74	0.343	60
		Right Edge	5745	0.254	-1.60	16.00	15.74	0.270	/
		Bottom Edge	5745	0.264	2.86	16.00	15.74	0.280	/

Band	Mode	Max SAR (W/Kg)	802.11 n-HT40 ANT 1+2
2.4G WLAN	802.11 n-HT40 ANT 1	0.079	0.207
	802.11 n-HT40 ANT 2	0.128	

Band	Mode	Max SAR (W/Kg)	802.11 n-HT40 ANT 1+2
5.2G WLAN	802.11 n-HT40 ANT 1	0.065	0.442
	802.11 n-HT40 ANT 2	0.377	



Band	Mode	Max SAR (W/Kg)	802.11 n-HT20 ANT 1+2
5.3G WLAN	802.11 n-HT20 ANT 1	0.066	0.139
	802.11 n-HT20 ANT 2	0.073	

Band	Mode	Max SAR (W/Kg)	802.11 n-HT20 ANT 1+2
5.6G WLAN	802.11 n-HT20 ANT 1	0.075	0.139
	802.11 n-HT20 ANT 2	0.064	

Band	Mode	Max SAR (W/Kg)	802.11 ac-VHT20 ANT 1+2
5.8G WLAN	802.11 ac-VHT20 ANT 1	0.062	0.405
	802.11 ac-VHT20 ANT 2	0.343	



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Frequency (MHz)	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas .No.
LTE Band 2	20M	QPSK	1	99	Front side	1860	0.442	0.57	18.5	18.12	0.482	/
			50	49	Front side	1860	0.385	-0.51	17.5	17.19	0.413	/
			1	99	Back Side	1860	0.833	-3.72	18.5	18.12	0.909	62
			50	49	Back Side	1860	0.810	2.83	17.5	17.19	0.870	/
			100	0	Back Side	1860	0.802	-0.63	17.5	17.03	0.894	/
			1	99	Left Side	1860	0.333	2.32	18.5	18.12	0.363	/
			50	49	Left Side	1860	0.302	2.67	17.5	17.19	0.324	/
			1	99	Right Side	1860	0.065	-3.70	18.5	18.12	0.071	/
			50	49	Right Side	1860	0.051	1.21	17.5	17.19	0.055	/
			1	99	Bottom Side	1860	0.631	0.30	18.5	18.12	0.689	/
LTE Band 4	20M	QPSK	50	49	Bottom Side	1860	0.624	0.86	17.5	17.19	0.670	/
			1	0	Front side	1720	0.282	-0.31	22.5	22.08	0.311	/
			50	0	Front side	1720	0.243	-2.54	21.5	21.13	0.265	/
			1	0	Back Side	1720	0.766	2.73	22.5	22.08	0.844	64
			50	0	Back Side	1720	0.712	-0.35	21.5	21.13	0.775	/
			100	0	Back Side	1720	0.721	0.23	21	20.94	0.731	/
LTE Band 2	20M	QPSK	1	0	Left Side	1720	0.254	-2.59	22.5	22.08	0.280	/



			50	0	Left Side	1720	0.124	-3.57	21.5	21.13	0.135	/
			1	0	Right Side	1720	0.038	-0.62	22.5	22.08	0.042	/
			50	0	Right Side	1720	0.023	-1.18	21.5	21.13	0.025	/
			1	0	Bottom Side	1720	0.420	-2.66	22.5	22.08	0.463	/
			50	0	Bottom Side	1720	0.398	-0.19	21.5	21.13	0.433	/
LTE Band 5	10M	QPSK	1	49	Front side	836.5	0.121	2.82	23	22.77	0.128	/
			25	24	Front side	844	0.112	-0.95	22	21.91	0.114	/
			1	49	Back Side	836.5	0.219	0.71	23	22.77	0.231	66
			25	24	Back Side	844	0.202	1.29	22	21.91	0.206	/
			1	49	Left Side	836.5	0.041	-2.97	23	22.77	0.043	/
			25	24	Left Side	844	0.037	-1.42	22	21.91	0.038	/
			1	49	Right Side	836.5	0.114	-2.36	23	22.77	0.120	/
			25	24	Right Side	844	0.102	0.06	22	21.91	0.104	/
			1	49	Bottom Side	836.5	0.124	-3.76	23	22.77	0.131	/
			25	24	Bottom Side	844	0.113	2.90	22	21.91	0.115	/
LTE Band 7	20M	QPSK	1	99	Front side	2510	0.254	0.12	23	22.56	0.281	/
			50	49	Front side	2510	0.234	3.28	22	21.63	0.255	/
			1	99	Back Side	2510	0.536	-0.68	23	22.56	0.593	68
			50	49	Back Side	2510	0.513	2.22	22	21.63	0.559	/



			1	99	Left Side	2510	0.321	1.52	23	22.56	0.355	/
			50	49	Left Side	2510	0.201	2.35	22	21.63	0.219	/
			1	99	Right Side	2510	0.158	2.61	23	22.56	0.175	/
			50	49	Right Side	2510	0.146	-0.30	22	21.63	0.159	/
			1	99	Bottom Side	2510	0.201	1.64	23	22.56	0.222	/
			50	49	Bottom Side	2510	0.178	-2.94	22	21.63	0.194	/
LTE Band 38	20M	QPSK	1	0	Front side	2580	0.260	1.42	23	22.66	0.281	/
			50	24	Front side	2580	0.254	-3.95	22	21.55	0.282	/
			1	0	Back Side	2580	0.346	-3.95	23	22.66	0.374	70
			50	24	Back Side	2580	0.321	-1.13	22	21.55	0.356	/
			1	0	Left Side	2580	0.236	0.09	23	22.66	0.255	/
			50	24	Left Side	2580	0.201	-1.81	22	21.55	0.223	/
			1	0	Right Side	2580	0.081	3.32	23	22.66	0.088	/
			50	24	Right Side	2580	0.078	1.78	22	21.55	0.087	/
			1	0	Bottom Side	2580	0.244	-2.24	23	22.66	0.264	/
			50	24	Bottom Side	2580	0.224	3.88	22	21.55	0.248	/
LTE Band 40	20M	QPSK	1	24	Front side	2350	0.191	-0.78	23.5	23.32	0.199	/
			25	24	Front side	2350	0.187	-2.57	22.5	22.44	0.190	/
			1	24	Back Side	2350	0.634	-0.37	23.5	23.32	0.661	72



			25	24	Back Side	2350	0.621	0.65	22.5	22.44	0.630	/
			1	24	Left Side	2350	0.145	-0.71	23.5	23.32	0.151	/
			25	24	Left Side	2350	0.134	1.30	22.5	22.44	0.136	/
			1	24	Right Side	2350	0.366	1.04	23.5	23.32	0.381	/
			25	24	Right Side	2350	0.325	0.62	22.5	22.44	0.330	/
			1	24	Bottom Side	2350	0.240	0.06	23.5	23.32	0.250	/
			25	24	Bottom Side	2350	0.233	1.08	22.5	22.44	0.236	/
LTE Band 41	20M	QPSK	1	99	Front side	2506	0.272	1.00	23.5	23.48	0.273	/
			50	49	Front side	2506	0.254	-2.14	23	22.56	0.281	/
			1	99	Back Side	2506	0.371	0.15	23.5	23.48	0.373	74
			50	49	Back Side	2506	0.356	2.76	23	22.56	0.394	/
			1	99	Left Side	2506	0.264	-0.07	23.5	23.48	0.265	/
			50	49	Left Side	2506	0.245	2.24	23	22.56	0.271	/
			1	99	Right Side	2506	0.119	-1.80	23.5	23.48	0.120	/
			50	49	Right Side	2506	0.098	-1.40	23	22.56	0.108	/
			1	99	Bottom Side	2506	0.250	-0.51	23.5	23.48	0.251	/
			50	49	Bottom Side	2506	0.231	3.23	23	22.56	0.256	/

Note:

1. The test separation of all above table is 10mm.
2. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.



- a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
- b. For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.099** W/Kg for Body)
4. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The “Portable Hotspot” feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



**Repeated SAR**

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
WCDMA Band II	RMC	Back Side	1880	0.838	-1.76	17.50	17.47	0.844	-
		Back Side	1907.6	0.743	-2.52	17.50	17.25	0.787	-

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	99	Back Side	1860	0.806	1.62	18.5	18.12	0.880	-
			50	49	Back Side	1860	0.807	-3.43	17.5	17.19	0.867	-
			100	0	Back Side	1860	0.784	-0.40	17.5	17.03	0.874	-
LTE Band 4	20M	QPSK	1	0	Back Side	1720	0.755	-3.65	17.50	17.47	0.760	-

12.3 repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g(mW/g)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(mW/g)	2nd Repeated SAR 1g	Ratio
WCDMA Band II	RMC	Back Side	1880	0.877	0.838	1.047	-	-	-
		Back Side	1908	0.765	0.743	1.030	-	-	-

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Ch.	Original Measured SAR 1g(mW/g)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(mW/g)	2nd Repeated SAR 1g	Ratio
LTE Band 2	20M	QPSK	1	99	Back Side	1860	0.833	0.806	1.033	-	-	-
			50	49	Back Side	1860	0.810	0.807	1.004	-	-	-
			100	0	Back Side	1860	0.802	0.784	1.023	-	-	-
LTE Band 4	20M	QPSK	1	0	Back Side	1720	0.766	0.755	1.015	-	-	-

Note:

1. Per KDB 865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/Kg}$.
2. Per KDB 865664 D01, if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/Kg}$, only one repeated measurement is required.
3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45\text{W/Kg}$.
4. The ratio is the difference in percentage between original and repeated measured SAR.

**Simultaneous Multi-band Transmission Evaluation:**

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth
	7. NR + 2.4GHz WLAN/5G WLAN
	8. NR + Bluetooth
Body	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth
	7. NR + 2.4GHz WLAN/5G WLAN
	8. NR + Bluetooth

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. Based upon KDB 447498 D01, BT SAR is excluded as below table.
4. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
5. For minimum test separation distance $\leq 50\text{mm}$, Bluetooth standalone SAR is excluded according to $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} (\text{GHz}) / x] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
6. The reported SAR summation is calculated based on the same configuration and test position.
7. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
 - a) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} (\text{GHz}) / x] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$;
Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
 - b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is $>50\text{mm}$.



Estimated SAR		Maximum Power		Antenna to user(mm)	Frequency(GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	9	7.943	≤ 5	2.402	0.328
	Body			≤ 5	2.402	0.328

Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN	Head	GSM	0.227	0.605
		2.4G WLAN	0.378	
	Body	GSM	0.37	0.577
		2.4G WLAN	0.207	
GSM + 5G WLAN	Head	GSM	0.227	0.647
		5G WLAN	0.42	
	Body	GSM	0.37	0.936
		5G WLAN	0.566	
GSM + Bluetooth	Head	GSM	0.227	0.555
		Bluetooth	0.328	
	Body	GSM	0.37	0.698
		Bluetooth	0.328	
WCDMA + 2.4G WLAN	Head	WCDMA	0.325	0.703
		2.4G WLAN	0.378	
	Body	WCDMA	0.883	1.09
		2.4G WLAN	0.207	
WCDMA + 5G WLAN	Head	WCDMA	0.325	0.745
		5G WLAN	0.42	
	Body	WCDMA	0.883	1.449
		5G WLAN	0.566	
WCDMA + Bluetooth	Head	WCDMA	0.325	0.653
		Bluetooth	0.328	
	Body	WCDMA	0.883	1.211
		Bluetooth	0.328	
LTE + 2.4G WLAN	Head	LTE	0.446	0.824
		2.4G WLAN	0.378	
	Body	LTE	0.909	1.116
		2.4G WLAN	0.207	