DC_12A_n78A	30	50	650000	64@32	DFT_16QAM	16.69
DC_12A_n78A	30	50	650000	1@1	DFT_16QAM	16.55
DC_12A_n78A	30	50	650000	1@131	DFT_16QAM	16.73
DC_12A_n78A	30	50	650000	128@0	DFT_64QAM	15.16
DC_12A_n78A	30	50	650000	64@32	DFT_64QAM	15.19
DC_12A_n78A	30	50	650000	1@1	DFT_64QAM	14.91
DC_12A_n78A	30	50	650000	1@131	DFT_64QAM	15.07
DC_12A_n78A	30	50	650000	128@0	DFT_256QAM	13.1
DC_12A_n78A	30	50	650000	64@32	DFT_256QAM	13.19
DC_12A_n78A	30	50	650000	1@1	DFT_256QAM	13.18
DC_12A_n78A	30	50	650000	1@131	DFT_256QAM	13.36
DC_12A_n78A	30	50	650000	133@0	CP_QPSK	14.62
DC_12A_n78A	30	50	650000	67@33	CP_QPSK	16.16
DC_12A_n78A	30	50	650000	1@1	CP_QPSK	16.01
DC_12A_n78A	30	50	650000	1@131	CP_QPSK	16.16
DC_12A_n78A	30	50	651666	128@0	DFT_BPSK	17.05
DC_12A_n78A	30	50	651666	64@32	DFT_BPSK	17.61
DC_12A_n78A	30	50	651666	1@1	DFT_BPSK	17.22
DC_12A_n78A	30	50	651666	1@131	DFT_BPSK	17.65
DC_12A_n78A	30	50	651666	128@0	DFT_QPSK	16.56
DC_12A_n78A	30	50	651666	64@32	DFT_QPSK	17.61
DC_12A_n78A	30	50	651666	1@1	DFT_QPSK	17.17
DC_12A_n78A	30	50	651666	1@131	DFT_QPSK	17.61
DC_12A_n78A	30	50	651666	128@0	DFT_16QAM	15.56
DC_12A_n78A	30	50	651666	64@32	DFT_16QAM	16.62
DC_12A_n78A	30	50	651666	1@1	DFT_16QAM	16.34
DC_12A_n78A	30	50	651666	1@131	DFT_16QAM	16.75
DC_12A_n78A	30	50	651666	128@0	DFT_64QAM	15.05
DC_12A_n78A	30	50	651666	64@32	DFT_64QAM	15.11
DC_12A_n78A	30	50	651666	1@1	DFT_64QAM	14.68
DC_12A_n78A	30	50	651666	1@131	DFT_64QAM	15.1
DC_12A_n78A	30	50	651666	128@0	DFT_256QAM	13.04
DC_12A_n78A	30	50	651666	64@32	DFT_256QAM	13.11
DC_12A_n78A	30	50	651666	1@1	DFT_256QAM	12.99
DC_12A_n78A	30	50	651666	1@131	DFT_256QAM	13.41
DC_12A_n78A	30	50	651666	133@0	CP_QPSK	14.56
DC_12A_n78A	30	50	651666	67@33	CP_QPSK	16.06
DC_12A_n78A	30	50	651666	1@1	CP_QPSK	15.71
DC_12A_n78A	30	50	651666	1@131	CP_QPSK	16.19
DC_12A_n78A	30	60	648668	162@0	DFT_BPSK	16.89
DC_12A_n78A	30	60	648668	81@40	DFT_BPSK	17.51
DC_12A_n78A	30	60	648668	1@1	DFT_BPSK	17.17
DC_12A_n78A	30	60	648668	1@160	DFT_BPSK	17.28
DC_12A_n78A	30	60	648668	162@0	DFT_QPSK	16.41
DC_12A_n78A	30	60	648668	81@40	DFT_QPSK	17.5
DC_12A_n78A	30	60	648668	1@1	DFT_QPSK	17.13
DC_12A_n78A	30	60	648668	1@160	DFT_QPSK	17.25
DC_12A_n78A	30	60	648668	162@0	DFT_16QAM	15.4

DC_12A_n78A	30	60	648668	81@40	DFT_16QAM	16.51
DC_12A_n78A	30	60	648668	1@1	DFT_16QAM	16.22
DC_12A_n78A	30	60	648668	1@160	DFT_16QAM	16.36
DC_12A_n78A	30	60	648668	162@0	DFT_64QAM	14.91
DC_12A_n78A	30	60	648668	81@40	DFT_64QAM	14.99
DC_12A_n78A	30	60	648668	1@1	DFT_64QAM	14.67
DC_12A_n78A	30	60	648668	1@160	DFT_64QAM	14.78
DC_12A_n78A	30	60	648668	162@0	DFT_256QAM	12.89
DC_12A_n78A	30	60	648668	81@40	DFT_256QAM	12.99
DC_12A_n78A	30	60	648668	1@1	DFT_256QAM	12.95
DC_12A_n78A	30	60	648668	1@160	DFT_256QAM	13.12
DC_12A_n78A	30	60	648668	162@0	CP_QPSK	14.39
DC_12A_n78A	30	60	648668	81@40	CP_QPSK	15.98
DC_12A_n78A	30	60	648668	1@1	CP_QPSK	15.69
DC_12A_n78A	30	60	648668	1@160	CP_QPSK	15.68
DC_12A_n78A	30	60	650000	162@0	DFT_BPSK	17.04
DC_12A_n78A	30	60	650000	81@40	DFT_BPSK	17.64
DC_12A_n78A	30	60	650000	1@1	DFT_BPSK	17.33
DC_12A_n78A	30	60	650000	1@160	DFT_BPSK	17.54
DC_12A_n78A	30	60	650000	162@0	DFT_QPSK	16.6
DC_12A_n78A	30	60	650000	81@40	DFT_QPSK	17.67
DC_12A_n78A	30	60	650000	1@1	DFT_QPSK	17.25
DC_12A_n78A	30	60	650000	1@160	DFT_QPSK	17.56
DC_12A_n78A	30	60	650000	162@0	DFT_16QAM	15.56
DC_12A_n78A	30	60	650000	81@40	DFT_16QAM	16.66
DC_12A_n78A	30	60	650000	1@1	DFT_16QAM	16.28
DC_12A_n78A	30	60	650000	1@160	DFT_16QAM	16.59
DC_12A_n78A	30	60	650000	162@0	DFT_64QAM	15.09
DC_12A_n78A	30	60	650000	81@40	DFT_64QAM	15.15
DC_12A_n78A	30	60	650000	1@1	DFT_64QAM	14.87
DC_12A_n78A	30	60	650000	1@160	DFT_64QAM	15.09
DC_12A_n78A	30	60	650000	162@0	DFT_256QAM	13.08
DC_12A_n78A	30	60	650000	81@40	DFT_256QAM	13.14
DC_12A_n78A	30	60	650000	1@1	DFT_256QAM	13
DC_12A_n78A	30	60	650000	1@160	DFT_256QAM	13.24
DC_12A_n78A	30	60	650000	162@0	CP_QPSK	14.52
DC_12A_n78A	30	60	650000	81@40	CP_QPSK	16.12
DC_12A_n78A	30	60	650000	1@1	CP_QPSK	15.79
DC_12A_n78A	30	60	650000	1@160	CP_QPSK	16.14
DC_12A_n78A	30	60	651332	162@0	DFT_BPSK	17.02
DC_12A_n78A	30	60	651332	81@40	DFT_BPSK	17.59
DC_12A_n78A	30	60	651332	1@1	DFT_BPSK	17.27
DC_12A_n78A	30	60	651332	1@160	DFT_BPSK	17.62
DC_12A_n78A	30	60	651332	162@0	DFT_QPSK	16.57
DC_12A_n78A	30	60	651332	81@40	DFT_QPSK	17.61
DC_12A_n78A	30	60	651332	1@1	DFT_QPSK	17.24
DC_12A_n78A	30	60	651332	1@160	DFT_QPSK	17.66
DC_12A_n78A	30	60	651332	162@0	DFT_16QAM	15.51

DC_12A_n78A	30	60	651332	81@40	DFT_16QAM	16.61
DC_12A_n78A	30	60	651332	1@1	DFT_16QAM	16.27
DC_12A_n78A	30	60	651332	1@160	DFT_16QAM	16.75
DC_12A_n78A	30	60	651332	162@0	DFT_64QAM	15.08
DC_12A_n78A	30	60	651332	81@40	DFT_64QAM	15.09
DC_12A_n78A	30	60	651332	1@1	DFT_64QAM	14.71
DC_12A_n78A	30	60	651332	1@160	DFT_64QAM	15
DC_12A_n78A	30	60	651332	162@0	DFT_256QAM	13.06
DC_12A_n78A	30	60	651332	81@40	DFT_256QAM	13.11
DC_12A_n78A	30	60	651332	1@1	DFT_256QAM	12.99
DC_12A_n78A	30	60	651332	1@160	DFT_256QAM	13.42
DC_12A_n78A	30	60	651332	162@0	CP_QPSK	14.53
DC_12A_n78A	30	60	651332	81@40	CP_QPSK	16.08
DC_12A_n78A	30	60	651332	1@1	CP_QPSK	15.71
DC_12A_n78A	30	60	651332	1@160	CP_QPSK	16.26
DC_12A_n78A	30	70	649000	180@0	DFT_BPSK	17.27
DC_12A_n78A	30	70	649000	90@45	DFT_BPSK	17.78
DC_12A_n78A	30	70	649000	1@1	DFT_BPSK	17.35
DC_12A_n78A	30	70	649000	1@187	DFT_BPSK	17.58
DC_12A_n78A	30	70	649000	180@0	DFT_QPSK	16.73
DC_12A_n78A	30	70	649000	90@45	DFT_QPSK	17.78
DC_12A_n78A	30	70	649000	1@1	DFT_QPSK	17.4
DC_12A_n78A	30	70	649000	1@187	DFT_QPSK	17.61
DC_12A_n78A	30	70	649000	180@0	DFT_16QAM	15.72
DC_12A_n78A	30	70	649000	90@45	DFT_16QAM	16.74
DC_12A_n78A	30	70	649000	1@1	DFT_16QAM	16.36
DC_12A_n78A	30	70	649000	1@187	DFT_16QAM	16.61
DC_12A_n78A	30	70	649000	180@0	DFT_64QAM	15.23
DC_12A_n78A	30	70	649000	90@45	DFT_64QAM	15.23
DC_12A_n78A	30	70	649000	1@1	DFT_64QAM	14.85
DC_12A_n78A	30	70	649000	1@187	DFT_64QAM	15.03
DC_12A_n78A	30	70	649000	180@0	DFT_256QAM	13.26
DC_12A_n78A	30	70	649000	90@45	DFT_256QAM	13.26
DC_12A_n78A	30	70	649000	1@1	DFT_256QAM	13.09
DC_12A_n78A	30	70	649000	1@187	DFT_256QAM	13.31
DC_12A_n78A	30	70	649000	189@0	CP_QPSK	14.75
DC_12A_n78A	30	70	649000	95@47	CP_QPSK	16.24
DC_12A_n78A	30	70	649000	1@1	CP_QPSK	15.84
DC_12A_n78A	30	70	649000	1@187	CP_QPSK	16.12
DC_12A_n78A	30	70	650000	180@0	DFT_BPSK	17.26
DC_12A_n78A	30	70	650000	90@45	DFT_BPSK	17.83
DC_12A_n78A	30	70	650000	1@1	DFT_BPSK	17.3
DC_12A_n78A	30	70	650000	1@187	DFT_BPSK	17.67
DC_12A_n78A	30	70	650000	180@0	DFT_QPSK	16.76
DC_12A_n78A	30	70	650000	90@45	DFT_QPSK	17.84
DC_12A_n78A	30	70	650000	1@1	DFT_QPSK	17.32
DC_12A_n78A	30	70	650000	1@187	DFT_QPSK	17.67
DC_12A_n78A	30	70	650000	180@0	DFT_16QAM	15.76

DC_12A_n78A	30	70	650000	90@45	DFT_16QAM	16.79
DC_12A_n78A	30	70	650000	1@1	DFT_16QAM	16.37
DC_12A_n78A	30	70	650000	1@187	DFT_16QAM	16.7
DC_12A_n78A	30	70	650000	180@0	DFT_64QAM	15.25
DC_12A_n78A	30	70	650000	90@45	DFT_64QAM	15.28
DC_12A_n78A	30	70	650000	1@1	DFT_64QAM	14.75
DC_12A_n78A	30	70	650000	1@187	DFT_64QAM	15.09
DC_12A_n78A	30	70	650000	180@0	DFT_256QAM	13.28
DC_12A_n78A	30	70	650000	90@45	DFT_256QAM	13.3
DC_12A_n78A	30	70	650000	1@1	DFT_256QAM	13.04
DC_12A_n78A	30	70	650000	1@187	DFT_256QAM	13.39
DC_12A_n78A	30	70	650000	189@0	CP_QPSK	14.75
DC_12A_n78A	30	70	650000	95@47	CP_QPSK	16.29
DC_12A_n78A	30	70	650000	1@1	CP_QPSK	15.82
DC_12A_n78A	30	70	650000	1@187	CP_QPSK	16.23
DC_12A_n78A	30	70	651000	180@0	DFT_BPSK	17.29
DC_12A_n78A	30	70	651000	90@45	DFT_BPSK	17.84
DC_12A_n78A	30	70	651000	1@1	DFT_BPSK	17.25
DC_12A_n78A	30	70	651000	1@187	DFT_BPSK	17.73
DC_12A_n78A	30	70	651000	180@0	DFT_QPSK	16.76
DC_12A_n78A	30	70	651000	90@45	DFT_QPSK	17.83
DC_12A_n78A	30	70	651000	1@1	DFT_QPSK	17.26
DC_12A_n78A	30	70	651000	1@187	DFT_QPSK	17.74
DC_12A_n78A	30	70	651000	180@0	DFT_16QAM	15.79
DC_12A_n78A	30	70	651000	90@45	DFT_16QAM	16.79
DC_12A_n78A	30	70	651000	1@1	DFT_16QAM	16.32
DC_12A_n78A	30	70	651000	1@187	DFT_16QAM	16.76
DC_12A_n78A	30	70	651000	180@0	DFT_64QAM	15.22
DC_12A_n78A	30	70	651000	90@45	DFT_64QAM	15.29
DC_12A_n78A	30	70	651000	1@1	DFT_64QAM	14.64
DC_12A_n78A	30	70	651000	1@187	DFT_64QAM	15.17
DC_12A_n78A	30	70	651000	180@0	DFT_256QAM	13.27
DC_12A_n78A	30	70	651000	90@45	DFT_256QAM	13.3
DC_12A_n78A	30	70	651000	1@1	DFT_256QAM	12.97
DC_12A_n78A	30	70	651000	1@187	DFT_256QAM	13.44
DC_12A_n78A	30	70	651000	189@0	CP_QPSK	14.79
DC_12A_n78A	30	70	651000	95@47	CP_QPSK	16.34
DC_12A_n78A	30	70	651000	1@1	CP_QPSK	15.75
DC_12A_n78A	30	70	651000	1@187	CP_QPSK	16.24
DC_12A_n78A	30	80	649334	216@0	DFT_BPSK	17.16
DC_12A_n78A	30	80	649334	108@54	DFT_BPSK	17.79
DC_12A_n78A	30	80	649334	1@1	DFT_BPSK	17.27
DC_12A_n78A	30	80	649334	1@215	DFT_BPSK	17.53
DC_12A_n78A	30	80	649334	216@0	DFT_QPSK	16.68
DC_12A_n78A	30	80	649334	108@54	DFT_QPSK	17.8
DC_12A_n78A	30	80	649334	1@1	DFT_QPSK	17.25
DC_12A_n78A	30	80	649334	1@215	DFT_QPSK	17.57
DC_12A_n78A	30	80	649334	216@0	DFT_16QAM	15.7

DC_12A_n78A	30	80	649334	108@54	DFT_16QAM	16.8
DC_12A_n78A	30	80	649334	1@1	DFT_16QAM	16.31
DC_12A_n78A	30	80	649334	1@215	DFT_16QAM	16.53
DC_12A_n78A	30	80	649334	216@0	DFT_64QAM	15.13
DC_12A_n78A	30	80	649334	108@54	DFT_64QAM	15.27
DC_12A_n78A	30	80	649334	1@1	DFT_64QAM	14.79
DC_12A_n78A	30	80	649334	1@215	DFT_64QAM	15.06
DC_12A_n78A	30	80	649334	216@0	DFT_256QAM	13.19
DC_12A_n78A	30	80	649334	108@54	DFT_256QAM	13.27
DC_12A_n78A	30	80	649334	1@1	DFT_256QAM	12.96
DC_12A_n78A	30	80	649334	1@215	DFT_256QAM	13.26
DC_12A_n78A	30	80	649334	217@0	CP_QPSK	14.73
DC_12A_n78A	30	80	649334	109@54	CP_QPSK	16.27
DC_12A_n78A	30	80	649334	1@1	CP_QPSK	15.74
DC_12A_n78A	30	80	649334	1@215	CP_QPSK	15.96
DC_12A_n78A	30	80	650000	216@0	DFT_BPSK	17.23
DC_12A_n78A	30	80	650000	108@54	DFT_BPSK	17.84
DC_12A_n78A	30	80	650000	1@1	DFT_BPSK	17.22
DC_12A_n78A	30	80	650000	1@215	DFT_BPSK	17.63
DC_12A_n78A	30	80	650000	216@0	DFT_QPSK	16.75
DC_12A_n78A	30	80	650000	108@54	DFT_QPSK	17.84
DC_12A_n78A	30	80	650000	1@1	DFT_QPSK	17.22
DC_12A_n78A	30	80	650000	1@215	DFT_QPSK	17.61
DC_12A_n78A	30	80	650000	216@0	DFT_16QAM	15.74
DC_12A_n78A	30	80	650000	108@54	DFT_16QAM	16.8
DC_12A_n78A	30	80	650000	1@1	DFT_16QAM	16.25
DC_12A_n78A	30	80	650000	1@215	DFT_16QAM	16.67
DC_12A_n78A	30	80	650000	216@0	DFT_64QAM	15.24
DC_12A_n78A	30	80	650000	108@54	DFT_64QAM	15.27
DC_12A_n78A	30	80	650000	1@1	DFT_64QAM	14.73
DC_12A_n78A	30	80	650000	1@215	DFT_64QAM	15.13
DC_12A_n78A	30	80	650000	216@0	DFT_256QAM	13.28
DC_12A_n78A	30	80	650000	108@54	DFT_256QAM	13.29
DC_12A_n78A	30	80	650000	1@1	DFT_256QAM	12.99
DC_12A_n78A	30	80	650000	1@215	DFT_256QAM	13.37
DC_12A_n78A	30	80	650000	217@0	CP_QPSK	14.75
DC_12A_n78A	30	80	650000	109@54	CP_QPSK	16.29
DC_12A_n78A	30	80	650000	1@1	CP_QPSK	15.72
DC_12A_n78A	30	80	650000	1@215	CP_QPSK	16.06
DC_12A_n78A	30	80	650666	216@0	DFT_BPSK	17.2
DC_12A_n78A	30	80	650666	108@54	DFT_BPSK	17.86
DC_12A_n78A	30	80	650666	1@1	DFT_BPSK	17.15
DC_12A_n78A	30	80	650666	1@215	DFT_BPSK	17.64
DC_12A_n78A	30	80	650666	216@0	DFT_QPSK	16.71
DC_12A_n78A	30	80	650666	108@54	DFT_QPSK	17.82
DC_12A_n78A	30	80	650666	1@1	DFT_QPSK	17.15
DC_12A_n78A	30	80	650666	1@215	DFT_QPSK	17.64
DC_12A_n78A	30	80	650666	216@0	DFT_16QAM	15.7

DC_12A_n78A	30	80	650666	108@54	DFT_16QAM	16.84
DC_12A_n78A	30	80	650666	1@1	DFT_16QAM	16.11
DC_12A_n78A	30	80	650666	1@215	DFT_16QAM	16.58
DC_12A_n78A	30	80	650666	216@0	DFT_64QAM	15.17
DC_12A_n78A	30	80	650666	108@54	DFT_64QAM	15.28
DC_12A_n78A	30	80	650666	1@1	DFT_64QAM	14.65
DC_12A_n78A	30	80	650666	1@215	DFT_64QAM	15.13
DC_12A_n78A	30	80	650666	216@0	DFT_256QAM	13.22
DC_12A_n78A	30	80	650666	108@54	DFT_256QAM	13.28
DC_12A_n78A	30	80	650666	1@1	DFT_256QAM	12.86
DC_12A_n78A	30	80	650666	1@215	DFT_256QAM	13.37
DC_12A_n78A	30	80	650666	217@0	CP_QPSK	14.74
DC_12A_n78A	30	80	650666	109@54	CP_QPSK	16.27
DC_12A_n78A	30	80	650666	1@1	CP_QPSK	15.64
DC_12A_n78A	30	80	650666	1@215	CP_QPSK	16.09
DC_12A_n78A	30	90	649668	243@0	DFT_BPSK	17.26
DC_12A_n78A	30	90	649668	120@60	DFT_BPSK	17.81
DC_12A_n78A	30	90	649668	1@1	DFT_BPSK	17.19
DC_12A_n78A	30	90	649668	1@243	DFT_BPSK	17.6
DC_12A_n78A	30	90	649668	243@0	DFT_QPSK	16.77
DC_12A_n78A	30	90	649668	120@60	DFT_QPSK	17.82
DC_12A_n78A	30	90	649668	1@1	DFT_QPSK	17.16
DC_12A_n78A	30	90	649668	1@243	DFT_QPSK	17.56
DC_12A_n78A	30	90	649668	243@0	DFT_16QAM	15.74
DC_12A_n78A	30	90	649668	120@60	DFT_16QAM	16.81
DC_12A_n78A	30	90	649668	1@1	DFT_16QAM	16.29
DC_12A_n78A	30	90	649668	1@243	DFT_16QAM	16.63
DC_12A_n78A	30	90	649668	243@0	DFT_64QAM	15.25
DC_12A_n78A	30	90	649668	120@60	DFT_64QAM	15.3
DC_12A_n78A	30	90	649668	1@1	DFT_64QAM	14.71
DC_12A_n78A	30	90	649668	1@243	DFT_64QAM	15.14
DC_12A_n78A	30	90	649668	243@0	DFT_256QAM	13.26
DC_12A_n78A	30	90	649668	120@60	DFT_256QAM	13.32
DC_12A_n78A	30	90	649668	1@1	DFT_256QAM	12.9
DC_12A_n78A	30	90	649668	1@243	DFT_256QAM	13.46
DC_12A_n78A	30	90	649668	245@0	CP_QPSK	14.81
DC_12A_n78A	30	90	649668	123@61	CP_QPSK	16.29
DC_12A_n78A	30	90	649668	1@1	CP_QPSK	15.7
DC_12A_n78A	30	90	649668	1@243	CP_QPSK	16.05
DC_12A_n78A	30	90	650000	243@0	DFT_BPSK	17.24
DC_12A_n78A	30	90	650000	120@60	DFT_BPSK	17.77
DC_12A_n78A	30	90	650000	1@1	DFT_BPSK	17.16
DC_12A_n78A	30	90	650000	1@243	DFT_BPSK	17.54
DC_12A_n78A	30	90	650000	243@0	DFT_QPSK	16.73
DC_12A_n78A	30	90	650000	120@60	DFT_QPSK	17.79
DC_12A_n78A	30	90	650000	1@1	DFT_QPSK	17.15
DC_12A_n78A	30	90	650000	1@243	DFT_QPSK	17.55
DC_12A_n78A	30	90	650000	243@0	DFT_16QAM	15.74

DC_12A_n78A	30	90	650000	120@60	DFT_16QAM	16.8
DC_12A_n78A	30	90	650000	1@1	DFT_16QAM	16.25
DC_12A_n78A	30	90	650000	1@243	DFT_16QAM	16.71
DC_12A_n78A	30	90	650000	243@0	DFT_64QAM	15.23
DC_12A_n78A	30	90	650000	120@60	DFT_64QAM	15.25
DC_12A_n78A	30	90	650000	1@1	DFT_64QAM	14.6
DC_12A_n78A	30	90	650000	1@243	DFT_64QAM	15.07
DC_12A_n78A	30	90	650000	243@0	DFT_256QAM	13.25
DC_12A_n78A	30	90	650000	120@60	DFT_256QAM	13.29
DC_12A_n78A	30	90	650000	1@1	DFT_256QAM	12.88
DC_12A_n78A	30	90	650000	1@243	DFT_256QAM	13.27
DC_12A_n78A	30	90	650000	245@0	CP_QPSK	14.78
DC_12A_n78A	30	90	650000	123@61	CP_QPSK	16.26
DC_12A_n78A	30	90	650000	1@1	CP_QPSK	15.69
DC_12A_n78A	30	90	650000	1@243	CP_QPSK	16.05
DC_12A_n78A	30	90	650332	243@0	DFT_BPSK	17.17
DC_12A_n78A	30	90	650332	120@60	DFT_BPSK	17.79
DC_12A_n78A	30	90	650332	1@1	DFT_BPSK	17.11
DC_12A_n78A	30	90	650332	1@243	DFT_BPSK	17.55
DC_12A_n78A	30	90	650332	243@0	DFT_QPSK	16.67
DC_12A_n78A	30	90	650332	120@60	DFT_QPSK	17.79
DC_12A_n78A	30	90	650332	1@1	DFT_QPSK	17.08
DC_12A_n78A	30	90	650332	1@243	DFT_QPSK	17.52
DC_12A_n78A	30	90	650332	243@0	DFT_16QAM	15.71
DC_12A_n78A	30	90	650332	120@60	DFT_16QAM	16.78
DC_12A_n78A	30	90	650332	1@1	DFT_16QAM	16.16
DC_12A_n78A	30	90	650332	1@243	DFT_16QAM	16.53
DC_12A_n78A	30	90	650332	243@0	DFT_64QAM	15.16
DC_12A_n78A	30	90	650332	120@60	DFT_64QAM	15.26
DC_12A_n78A	30	90	650332	1@1	DFT_64QAM	14.6
DC_12A_n78A	30	90	650332	1@243	DFT_64QAM	14.99
DC_12A_n78A	30	90	650332	243@0	DFT_256QAM	13.19
DC_12A_n78A	30	90	650332	120@60	DFT_256QAM	13.28
DC_12A_n78A	30	90	650332	1@1	DFT_256QAM	12.8
DC_12A_n78A	30	90	650332	1@243	DFT_256QAM	13.23
DC_12A_n78A	30	90	650332	245@0	CP_QPSK	14.72
DC_12A_n78A	30	90	650332	123@61	CP_QPSK	16.24
DC_12A_n78A	30	90	650332	1@1	CP_QPSK	15.65
DC_12A_n78A	30	90	650332	1@243	CP_QPSK	16.14
DC_12A_n78A	30	100	650000	270@0	DFT_BPSK	17.2
DC_12A_n78A	30	100	650000	135@67	DFT_BPSK	17.78
DC_12A_n78A	30	100	650000	1@1	DFT_BPSK	17.1
DC_12A_n78A	30	100	650000	1@271	DFT_BPSK	17.52
DC_12A_n78A	30	100	650000	270@0	DFT_QPSK	16.66
DC_12A_n78A	30	100	650000	135@67	DFT_QPSK	17.8
DC_12A_n78A	30	100	650000	1@1	DFT_QPSK	17.05
DC_12A_n78A	30	100	650000	1@271	DFT_QPSK	17.49
DC_12A_n78A	30	100	650000	270@0	DFT_16QAM	15.69

DC_12A_n78A	30	100	650000	135@67	DFT_16QAM	16.8
DC_12A_n78A	30	100	650000	1@1	DFT_16QAM	16.1
DC_12A_n78A	30	100	650000	1@271	DFT_16QAM	16.55
DC_12A_n78A	30	100	650000	270@0	DFT_64QAM	15.17
DC_12A_n78A	30	100	650000	135@67	DFT_64QAM	15.25
DC_12A_n78A	30	100	650000	1@1	DFT_64QAM	14.6
DC_12A_n78A	30	100	650000	1@271	DFT_64QAM	15.04
DC_12A_n78A	30	100	650000	270@0	DFT_256QAM	13.22
DC_12A_n78A	30	100	650000	135@67	DFT_256QAM	13.28
DC_12A_n78A	30	100	650000	1@1	DFT_256QAM	12.79
DC_12A_n78A	30	100	650000	1@271	DFT_256QAM	13.25
DC_12A_n78A	30	100	650000	273@0	CP_QPSK	14.72
DC_12A_n78A	30	100	650000	137@68	CP_QPSK	16.24
DC_12A_n78A	30	100	650000	1@1	CP_QPSK	15.69
DC_12A_n78A	30	100	650000	1@271	CP_QPSK	16.09

10.2 Tune up Power

Mode	GSM850	GSM1900
GSM/PCS	26±1dBm	21±1dBm
GPRS (1 Slot)	26±1dBm	21±1dBm
GPRS (2 Slot)	26±1dBm	21±1dBm
GPRS (3 Slot)	26±1dBm	21±1dBm
GPRS (4 Slot)	26±1dBm	21±1dBm
EDGE (1 Slot)	26±1dBm	31±1dBm
EDGE (2 Slot)	25.5±1dBm	24±1dBm
EDGE (3 Slot)	23.5±1dBm	22±1dBm
EDGE (4 Slot)	22±1dBm	20.5±1dBm

Mode	WCDMA Band II	WCDMA Band IV	WCDMA Band V
RMR	17±1dBm	16±1dBm	23±1dBm
HSDPA Subtest-1	16±1dBm	15±1dBm	22±1dBm
HSDPA Subtest-2	15.5±1dBm	14.5±1dBm	22±1dBm
HSDPA Subtest-3	14.5±1dBm	13.5±1dBm	21±1dBm
HSDPA Subtest-4	14.5±1dBm	13±1dBm	21±1dBm
HSUPA Subtest-1	15.5±1dBm	14.5±1dBm	22±1dBm
HSUPA Subtest-2	15.5±1dBm	14.5±1dBm	22±1dBm
HSUPA Subtest-3	14.5±1dBm	13.5±1dBm	20.5±1dBm
HSUPA Subtest-4	16±1dBm	15±1dBm	22±1dBm
HSUPA Subtest-5	15±1dBm	14±1dBm	21.5±1dBm

Mode	NFC
NFC	-44±1dBm

Mode	BT
GFSK	6.5±1dBm
π/4-DQPSK	6±1dBm
8DPSK	6.5±1dBm

Mode	BLE
GFSK(1Mbps)	7±1dBm
GFSK(2Mbps)	7±1dBm

BW[MHz]	RB Size	RB Size	Mode	Band 2	Band 4	Band 5	Band 7	Band 12	Band 13	Band 17
1.4	1	1	QPSK	17±1dBm	16±1dBm	23±1dBm	N/A	22.9±1dBm	N/A	N/A
1.4	3	3		16.5±1dBm	16±1dBm	23±1dBm	N/A	22.9±1dBm	N/A	N/A
1.4	6	6		15.5±1dBm	15±1dBm	22±1dBm	N/A	22±1dBm	N/A	N/A
1.4	1	1	16-QAM	16±1dBm	15±1dBm	22.5±1dBm	N/A	22±1dBm	N/A	N/A
1.4	3	3		16±1dBm	15±1dBm	22.5±1dBm	N/A	22.3±1dBm	N/A	N/A
1.4	6	6		15±1dBm	14±1dBm	21.5±1dBm	N/A	21±1dBm	N/A	N/A
3	1	1	QPSK	16.5±1dBm	16±1dBm	23±1dBm	N/A	22.9±1dBm	N/A	N/A
3	8	8		15.5±1dBm	15±1dBm	22±1dBm	N/A	22±1dBm	N/A	N/A
3	15	15		15.5±1dBm	14.5±1dBm	22±1dBm	N/A	22±1dBm	N/A	N/A
3	1	1	16-QAM	16±1dBm	15±1dBm	22.5±1dBm	N/A	22.5±1dBm	N/A	N/A
3	8	8		15±1dBm	14±1dBm	21±1dBm	N/A	21±1dBm	N/A	N/A
3	15	15		15±1dBm	14±1dBm	21±1dBm	N/A	21±1dBm	N/A	N/A
5	1	1	QPSK	16.5±1dBm	16±1dBm	23±1dBm	22.5±1dBm	22.9±1dBm	23.5±1dBm	23.5±1dBm
5	12	12		15.5±1dBm	15±1dBm	22±1dBm	21±1dBm	22±1dBm	22.5±1dBm	22±1dBm
5	25	25		15.5±1dBm	15±1dBm	22±1dBm	21±1dBm	2±1dBm	22.5±1dBm	22±1dBm
5	1	1	16-QAM	16.5±1dBm	15±1dBm	22.5±1dBm	22±1dBm	22.5±1dBm	23±1dBm	23±1dBm
5	12	12		15±1dBm	13.5±1dBm	21±1dBm	20±1dBm	21±1dBm	21.5±1dBm	21±1dBm
5	25	25		15±1dBm	14±1dBm	21±1dBm	20±1dBm	21±1dBm	21.5±1dBm	21±1dBm
10	1	1	QPSK	17±1dBm	16±1dBm	23±1dBm	22±1dBm	22.9±1dBm	23.5±1dBm	23.5±1dBm
10	25	25		15.5±1dBm	15±1dBm	22.5±1dBm	21±1dBm	22±1dBm	22.5±1dBm	22.5±1dBm
10	50	50		15.5±1dBm	15±1dBm	22.3±1dBm	21±1dBm	22±1dBm	22.5±1dBm	22.5±1dBm
10	1	1	16-QAM	16±1dBm	15±1dBm	22.5±1dBm	21.5±1dBm	22.5±1dBm	23±1dBm	22.5±1dBm
10	25	25		15±1dBm	14±1dBm	21.5±1dBm	20±1dBm	21±1dBm	21.5±1dBm	21.5±1dBm
10	50	50		15±1dBm	14±1dBm	21±1dBm	20±1dBm	21±1dBm	21.5±1dBm	21.5±1dBm
15	1	1	QPSK	16.5±1dBm	16±1dBm	N/A	22±1dBm	N/A	N/A	N/A
15	36	36		16±1dBm	14.5±1dBm	N/A	21±1dBm	N/A	N/A	N/A
15	75	75		15.5±1dBm	14.5±1dBm	N/A	21±1dBm	N/A	N/A	N/A
15	1	1	16-QAM	16±1dBm	15±1dBm	N/A	21.5±1dBm	N/A	N/A	N/A
15	36	36		15±1dBm	14±1dBm	N/A	20±1dBm	N/A	N/A	N/A
15	75	75		15±1dBm	13.5±1dBm	N/A	20±1dBm	N/A	N/A	N/A
20	1	1	QPSK	17±1dBm	16±1dBm	N/A	22.5±1dBm	N/A	N/A	N/A
20	50	50		16±1dBm	14.5±1dBm	N/A	21.3±1dBm	N/A	N/A	N/A
20	100	100		15.5±1dBm	14.5±1dBm	N/A	21±1dBm	N/A	N/A	N/A
20	1	1	16-QAM	16±1dBm	15±1dBm	N/A	21.5±1dBm	N/A	N/A	N/A
20	50	50		15±1dBm	13.5±1dBm	N/A	20.5±1dBm	N/A	N/A	N/A
20	100	100		15±1dBm	13.5±1dBm	N/A	20±1dBm	N/A	N/A	N/A

BW[MHz]	RB Size	RB Size	Mode	Band 25	Band 26	Band 26	Band 38	Band 41	Band 66	Band 71
1.4	1	1	QPSK	17.5±1dBm	23±1dBm	23±1dBm	N/A	N/A	16±1dBm	N/A
1.4	3	3		17.5±1dBm	23±1dBm	23±1dBm	N/A	N/A	16±1dBm	N/A
1.4	6	6		16.5±1dBm	22±1dBm	22±1dBm	N/A	N/A	14.5±1dBm	N/A
1.4	1	1	16-QAM	17±1dBm	22.5±1dBm	22.5±1dBm	N/A	N/A	15±1dBm	N/A
1.4	3	3		17±1dBm	22.5±1dBm	22.5±1dBm	N/A	N/A	15±1dBm	N/A
1.4	6	6		16±1dBm	21.5±1dBm	21.5±1dBm	N/A	N/A	14±1dBm	N/A
3	1	1	QPSK	17.5±1dBm	23±1dBm	23±1dBm	N/A	N/A	16±1dBm	N/A
3	8	8		16.5±1dBm	22±1dBm	22±1dBm	N/A	N/A	15±1dBm	N/A
3	15	15		16.5±1dBm	22±1dBm	22±1dBm	N/A	N/A	14.5±1dBm	N/A
3	1	1	16-QAM	17±1dBm	22.5±1dBm	22.5±1dBm	N/A	N/A	15±1dBm	N/A
3	8	8		15.5±1dBm	21±1dBm	21±1dBm	N/A	N/A	14±1dBm	N/A
3	15	15		15.5±1dBm	21±1dBm	21±1dBm	N/A	N/A	14±1dBm	N/A
5	1	1	QPSK	17.5±1dBm	23±1dBm	23±1dBm	19±1dBm	20±1dBm	16±1dBm	23.5±1dBm
5	12	12		17±1dBm	22±1dBm	22±1dBm	18±1dBm	19.5±1dBm	15±1dBm	22±1dBm
5	25	25		17±1dBm	22±1dBm	22±1dBm	18±1dBm	19.5±1dBm	15±1dBm	22±1dBm
5	1	1	16-QAM	17.5±1dBm	22.5±1dBm	22.5±1dBm	18.5±1dBm	20±1dBm	15±1dBm	22.5±1dBm
5	12	12		15.5±1dBm	21±1dBm	21±1dBm	17±1dBm	19±1dBm	13.5±1dBm	21±1dBm
5	25	25		15.5±1dBm	21±1dBm	21±1dBm	17±1dBm	19.5±1dBm	14±1dBm	21±1dBm
10	1	1	QPSK	18±1dBm	23±1dBm	23±1dBm	19±1dBm	20±1dBm	16±1dBm	23.5±1dBm
10	25	25		17±1dBm	22±1dBm	22±1dBm	18±1dBm	19.5±1dBm	15±1dBm	22±1dBm
10	50	50		17±1dBm	22±1dBm	22±1dBm	18±1dBm	19.5±1dBm	15±1dBm	22±1dBm
10	1	1	16-QAM	17±1dBm	22.5±1dBm	22.5±1dBm	18±1dBm	19.5±1dBm	15±1dBm	22.5±1dBm
10	25	25		16±1dBm	21±1dBm	21.5±1dBm	17±1dBm	19±1dBm	14±1dBm	21±1dBm
10	50	50		15.5±1dBm	21±1dBm	21±1dBm	17±1dBm	19.5±1dBm	14±1dBm	21±1dBm
15	1	1	QPSK	18±1dBm	N/A	23±1dBm	19±1dBm	20±1dBm	16±1dBm	23.5±1dBm
15	36	36		17±1dBm	N/A	22±1dBm	18±1dBm	20±1dBm	14.5±1dBm	22.5±1dBm
15	75	75		16.5±1dBm	N/A	22±1dBm	18±1dBm	20±1dBm	14.5±1dBm	22±1dBm
15	1	1	16-QAM	17.5±1dBm	N/A	22.5±1dBm	18.5±1dBm	19.5±1dBm	15±1dBm	22.5±1dBm
15	36	36		16±1dBm	N/A	21±1dBm	17±1dBm	19.5±1dBm	13.5±1dBm	21.5±1dBm
15	75	75		15.5±1dBm	N/A	21±1dBm	17±1dBm	20±1dBm	13.5±1dBm	21±1dBm
20	1	1	QPSK	18±1dBm	N/A	N/A	19±1dBm	20±1dBm	16±1dBm	23.5±1dBm
20	50	50		17±1dBm	N/A	N/A	18±1dBm	20±1dBm	14.5±1dBm	22.5±1dBm
20	100	100		17±1dBm	N/A	N/A	18±1dBm	19.8±1dBm	14.5±1dBm	22.3±1dBm
20	1	1	16-QAM	17±1dBm	N/A	N/A	18±1dBm	19.5±1dBm	15±1dBm	22.5±1dBm
20	50	50		16±1dBm	N/A	N/A	17±1dBm	19.5±1dBm	13.5±1dBm	21.5±1dBm
20	100	100		16±1dBm	N/A	N/A	17±1dBm	20±1dBm	13.5±1dBm	21.5±1dBm

Mode	2.4G WLAN		
	ANT 1	ANT 2	MIMO
802.11b	15±1dBm	15.5±1dBm	N/A
802.11g	13±1dBm	12.5±1dBm	N/A
802.11n(HT20)	13±1dBm	12.5±1dBm	12.5±1dBm
802.11n(HT40)	13±1dBm	12.5±1dBm	13±1dBm
802.11ax-HE20	13±1dBm	12.5±1dBm	14±1dBm
802.11ax-HE40	13.5±1dBm	12.5±1dBm	13.5±1dBm

Mode	5.2G WLAN		
	ANT 1	ANT 2	MIMO
802.11a	13±1dBm	11.8±1dBm	N/A
802.11n-HT20	10.5±1dBm	11±1dBm	11±1dBm
802.11n-HT40	10.5±1dBm	11±1dBm	11.5±1dBm
802.11ac-VHT20	10.5±1dBm	11±1dBm	11±1dBm
802.11ac-VHT40	10.5±1dBm	11±1dBm	11±1dBm
802.11ac-VHT80	10.5±1dBm	10.5±1dBm	10±1dBm
802.11ax-HE20	10.5±1dBm	11±1dBm	11.2±1dBm
802.11ax-HE40	10.5±1dBm	11.5±1dBm	11.2±1dBm
802.11ax-HE80	9.5±1dBm	11±1dBm	10±1dBm

Mode	5.3G WLAN		
	ANT 1	ANT 2	MIMO
802.11a	11±1dBm	12±1dBm	N/A
802.11n-HT20	9.5±1dBm	11±1dBm	11±1dBm
802.11n-HT40	10±1dBm	11±1dBm	11±1dBm
802.11ac-VHT20	10±1dBm	11±1dBm	11±1dBm
802.11ac-VHT40	10±1dBm	11±1dBm	10.5±1dBm
802.11ac-VHT80	9.5±1dBm	10.5±1dBm	10±1dBm
802.11ax-HE20	9.5±1dBm	11±1dBm	11.2±1dBm
802.11ax-HE40	9.5±1dBm	11±1dBm	11±1dBm
802.11ax-HE80	9±1dBm	11±1dBm	9.5±1dBm

Mode	5.6G WLAN		
	ANT 1	ANT 2	MIMO
802.11a	9.5±1dBm	12.5±1dBm	N/A
802.11n-HT20	9±1dBm	11±1dBm	9.5±1dBm
802.11n-HT40	8.5±1dBm	11±1dBm	10.5±1dBm
802.11ac-VHT20	8.5±1dBm	11±1dBm	9.5±1dBm
802.11ac-VHT40	8.5±1dBm	10.5±1dBm	10±1dBm
802.11ac-VHT80	8.5±1dBm	10±1dBm	9.5±1dBm
802.11ax-HE20	8.5±1dBm	11.5±1dBm	9.5±1dBm
802.11ax-HE40	8.5±1dBm	11±1dBm	10.5±1dBm
802.11ax-HE80	8±1dBm	10.5±1dBm	8±1dBm

Mode	5.8G WLAN		
	ANT 1	ANT 2	MIMO
802.11a	9.5±1dBm	12±1dBm	N/A
802.11n-HT20	8.5±1dBm	11±1dBm	10.3±1dBm
802.11n-HT40	8.5±1dBm	11±1dBm	10±1dBm
802.11ac-VHT20	9±1dBm	11±1dBm	10.3±1dBm
802.11ac-VHT40	8.5±1dBm	10.5±1dBm	10±1dBm
802.11ac-VHT80	6.5±1dBm	10±1dBm	9.5±1dBm
802.11ax-HE20	9±1dBm	11±1dBm	10.5±1dBm
802.11ax-HE40	7±1dBm	11±1dBm	10±1dBm
802.11ax-HE80	8.5±1dBm	10.5±1dBm	9±1dBm

BW[MHz]	Mode	SA N2	SA N5	SA N7	SA N12
5	DFT_BPSK	19.5±1dBm	22±1dBm	18.5±1dBm	22±1dBm
5	DFT_QPSK	19.5±1dBm	22±1dBm	18.5±1dBm	22±1dBm
5	DFT_QAM16	18.5±1dBm	21.5±1dBm	17.5±1dBm	21±1dBm
5	DFT_QAM64	17±1dBm	20±1dBm	16±1dBm	19.5±1dBm
5	DFT_QAM256	15±1dBm	18±1dBm	14±1dBm	17.5±1dBm
5	CP_QPSK	18±1dBm	21±1dBm	17±1dBm	20.5±1dBm
10	DFT_BPSK	19.5±1dBm	22±1dBm	18.5±1dBm	22±1dBm
10	DFT_QPSK	19.5±1dBm	22±1dBm	18.5±1dBm	22±1dBm
10	DFT_QAM16	18.5±1dBm	21.5±1dBm	17.5±1dBm	21±1dBm
10	DFT_QAM64	17±1dBm	20±1dBm	16±1dBm	19.5±1dBm
10	DFT_QAM256	15±1dBm	17.5±1dBm	14±1dBm	17.5±1dBm
10	CP_QPSK	18±1dBm	20.5±1dBm	17±1dBm	20.5±1dBm
15	DFT_BPSK	19.5±1dBm	22±1dBm	18.5±1dBm	22±1dBm
15	DFT_QPSK	19.5±1dBm	22±1dBm	18.5±1dBm	22±1dBm
15	DFT_QAM16	18.5±1dBm	21.5±1dBm	17.5±1dBm	21±1dBm
15	DFT_QAM64	17±1dBm	20±1dBm	16±1dBm	19.5±1dBm
15	DFT_QAM256	15±1dBm	18±1dBm	14±1dBm	18±1dBm
15	CP_QPSK	18±1dBm	21±1dBm	17±1dBm	20.5±1dBm
20	DFT_BPSK	19.5±1dBm	22±1dBm	18.5±1dBm	/
20	DFT_QPSK	19.5±1dBm	22±1dBm	18.5±1dBm	/
20	DFT_QAM16	18.5±1dBm	21.5±1dBm	17.5±1dBm	/
20	DFT_QAM64	17±1dBm	20±1dBm	16±1dBm	/
20	DFT_QAM256	15±1dBm	18±1dBm	14±1dBm	/
20	CP_QPSK	18±1dBm	21±1dBm	17±1dBm	/

BW[MHz]	Mode	SA N13	SA N25	SA N26(814-824)	SA N26(824-849)
5	DFT_BPSK	22.2±1dBm	19.5±1dBm	22±1dBm	22±1dBm
5	DFT_QPSK	22.2±1dBm	19.5±1dBm	22±1dBm	22±1dBm
5	DFT_QAM16	21.5±1dBm	19±1dBm	21.5±1dBm	21.5±1dBm
5	DFT_QAM64	20±1dBm	17±1dBm	20±1dBm	20±1dBm
5	DFT_QAM256	18±1dBm	15±1dBm	18±1dBm	18±1dBm
5	CP_QPSK	21±1dBm	18±1dBm	21±1dBm	21±1dBm
10	DFT_BPSK	22.3±1dBm	19.5±1dBm	22.3±1dBm	22±1dBm
10	DFT_QPSK	22.3±1dBm	19.5±1dBm	22.3±1dBm	22±1dBm
10	DFT_QAM16	21.5±1dBm	18.5±1dBm	21±1dBm	21.5±1dBm
10	DFT_QAM64	20±1dBm	17±1dBm	19.5±1dBm	20±1dBm
10	DFT_QAM256	18±1dBm	15±1dBm	17.5±1dBm	18±1dBm
10	CP_QPSK	21±1dBm	17±1dBm	20.5±1dBm	21±1dBm
15	DFT_BPSK	/	19.5±1dBm	/	22.2±1dBm
15	DFT_QPSK	/	19.5±1dBm	/	22.2±1dBm
15	DFT_QAM16	/	19±1dBm	/	21.5±1dBm
15	DFT_QAM64	/	17±1dBm	/	20±1dBm
15	DFT_QAM256	/	15±1dBm	/	18±1dBm
15	CP_QPSK	/	18±1dBm	/	21±1dBm
20	DFT_BPSK	/	19.8±1dBm	/	22.3±1dBm
20	DFT_QPSK	/	19.8±1dBm	/	22.3±1dBm
20	DFT_QAM16	/	18.5±1dBm	/	21.5±1dBm
20	DFT_QAM64	/	17±1dBm	/	20±1dBm
20	DFT_QAM256	/	15±1dBm	/	18±1dBm
20	CP_QPSK	/	18±1dBm	/	21±1dBm

BW[MHz]	Mode	SA N38	SA N41	SA N66	SA N71
5	DFT_BPSK	/	/	19±1dBm	22.3±1dBm
5	DFT_QPSK	/	/	19±1dBm	22.3±1dBm
5	DFT_QAM16	/	/	18.5±1dBm	21.5±1dBm
5	DFT_QAM64	/	/	16.5±1dBm	20±1dBm
5	DFT_QAM256	/	/	14.5±1dBm	18±1dBm
5	CP_QPSK	/	/	17.5±1dBm	21±1dBm
10	DFT_BPSK	15.9±1dBm	19±1dBm	19±1dBm	22.3±1dBm
10	DFT_QPSK	15.9±1dBm	19±1dBm	19±1dBm	22.3±1dBm
10	DFT_QAM16	15±1dBm	18±1dBm	18±1dBm	21.5±1dBm
10	DFT_QAM64	13.5±1dBm	16.5±1dBm	16.5±1dBm	20±1dBm
10	DFT_QAM256	11.5±1dBm	14.5±1dBm	14.5±1dBm	18±1dBm
10	CP_QPSK	14.5±1dBm	17.5±1dBm	17.5±1dBm	20.5±1dBm
15	DFT_BPSK	15.9±1dBm	19±1dBm	19±1dBm	22.3±1dBm
15	DFT_QPSK	15.9±1dBm	19±1dBm	19±1dBm	22.3±1dBm
15	DFT_QAM16	15±1dBm	18±1dBm	18.5±1dBm	21.5±1dBm
15	DFT_QAM64	13.5±1dBm	16.5±1dBm	17±1dBm	20±1dBm
15	DFT_QAM256	11.5±1dBm	14.5±1dBm	14.5±1dBm	18±1dBm
15	CP_QPSK	14.5±1dBm	17.5±1dBm	17.5±1dBm	21±1dBm
20	DFT_BPSK	16.9±1dBm	19±1dBm	19±1dBm	22.5±1dBm
20	DFT_QPSK	16.9±1dBm	19±1dBm	19±1dBm	22.5±1dBm
20	DFT_QAM16	15±1dBm	18±1dBm	18.5±1dBm	21.5±1dBm
20	DFT_QAM64	13.5±1dBm	16.5±1dBm	17±1dBm	20±1dBm
20	DFT_QAM256	11.5±1dBm	14.5±1dBm	14.5±1dBm	18±1dBm
20	CP_QPSK	14.5±1dBm	17.5±1dBm	17.5±1dBm	21±1dBm
25	DFT_BPSK	/	/	19±1dBm	/
25	DFT_QPSK	/	/	19±1dBm	/
25	DFT_QAM16	/	/	18±1dBm	/
25	DFT_QAM64	/	/	16.5±1dBm	/
25	DFT_QAM256	/	/	14.5±1dBm	/
25	CP_QPSK	/	/	17.5±1dBm	/
30	DFT_BPSK	/	19±1dBm	19±1dBm	/
30	DFT_QPSK	/	19±1dBm	19±1dBm	/
30	DFT_QAM16	/	18±1dBm	18±1dBm	/
30	DFT_QAM64	/	16.5±1dBm	16.5±1dBm	/
30	DFT_QAM256	/	14.5±1dBm	14.5±1dBm	/
30	CP_QPSK	/	18±1dBm	17.5±1dBm	/
40	DFT_BPSK	16±1dBm	19±1dBm	19.2±1dBm	/
40	DFT_QPSK	16±1dBm	19±1dBm	19.2±1dBm	/
40	DFT_QAM16	14.5±1dBm	18±1dBm	18±1dBm	/
40	DFT_QAM64	13±1dBm	17±1dBm	16.5±1dBm	/
40	DFT_QAM256	11±1dBm	14.5±1dBm	14.5±1dBm	/
40	CP_QPSK	14±1dBm	17.5±1dBm	17.5±1dBm	/
50	DFT_BPSK	/	19±1dBm	/	/
50	DFT_QPSK	/	19±1dBm	/	/
50	DFT_QAM16	/	18.5±1dBm	/	/
50	DFT_QAM64	/	17±1dBm	/	/
50	DFT_QAM256	/	15±1dBm	/	/

50	CP_QPSK	/	18±1dBm	/	/
60	DFT_BPSK	/	19±1dBm	/	/
60	DFT_QPSK	/	19±1dBm	/	/
60	DFT_QAM16	/	18±1dBm	/	/
60	DFT_QAM64	/	17±1dBm	/	/
60	DFT_QAM256	/	14.5±1dBm	/	/
60	CP_QPSK	/	17.5±1dBm	/	/
80	DFT_BPSK	/	19±1dBm	/	/
80	DFT_QPSK	/	19±1dBm	/	/
80	DFT_QAM16	/	18.5±1dBm	/	/
80	DFT_QAM64	/	17±1dBm	/	/
80	DFT_QAM256	/	15±1dBm	/	/
80	CP_QPSK	/	17.5±1dBm	/	/
90	DFT_BPSK	/	19±1dBm	/	/
90	DFT_QPSK	/	19±1dBm	/	/
90	DFT_QAM16	/	18±1dBm	/	/
90	DFT_QAM64	/	16.5±1dBm	/	/
90	DFT_QAM256	/	14.5±1dBm	/	/
90	CP_QPSK	/	17.5±1dBm	/	/
100	DFT_BPSK	/	19.2±1dBm	/	/
100	DFT_QPSK	/	19.2±1dBm	/	/
100	DFT_QAM16	/	18±1dBm	/	/
100	DFT_QAM64	/	16.5±1dBm	/	/
100	DFT_QAM256	/	14.5±1dBm	/	/
100	CP_QPSK	/	17.5±1dBm	/	/

BW[MHz]	Mode	SA N77(3450-3550)	SA N77(3700-3980)	SA N78	SA N78
10	DFT_BPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17.3±1dBm
10	DFT_QPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17.3±1dBm
10	DFT_QAM16	15±1dBm	15.5±1dBm	15.5±1dBm	16.5±1dBm
10	DFT_QAM64	13.5±1dBm	14±1dBm	14±1dBm	15±1dBm
10	DFT_QAM256	11.5±1dBm	12±1dBm	12±1dBm	13±1dBm
10	CP_QPSK	14.5±1dBm	15±1dBm	15±1dBm	16±1dBm
15	DFT_BPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17.3±1dBm
15	DFT_QPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17.3±1dBm
15	DFT_QAM16	15.5±1dBm	15.5±1dBm	15.5±1dBm	16.5±1dBm
15	DFT_QAM64	13.5±1dBm	14±1dBm	14±1dBm	15±1dBm
15	DFT_QAM256	11.5±1dBm	12±1dBm	12±1dBm	13±1dBm
15	CP_QPSK	14.5±1dBm	15±1dBm	15±1dBm	16±1dBm
20	DFT_BPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17.3±1dBm
20	DFT_QPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17.3±1dBm
20	DFT_QAM16	15±1dBm	15.5±1dBm	15.5±1dBm	16.5±1dBm
20	DFT_QAM64	13.5±1dBm	14±1dBm	14±1dBm	15±1dBm
20	DFT_QAM256	11.5±1dBm	12±1dBm	12±1dBm	13±1dBm
20	CP_QPSK	14.5±1dBm	15±1dBm	15±1dBm	16±1dBm
40	DFT_BPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17±1dBm
40	DFT_QPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17±1dBm
40	DFT_QAM16	15±1dBm	15.5±1dBm	15.5±1dBm	16±1dBm
40	DFT_QAM64	13.5±1dBm	13.5±1dBm	14±1dBm	14.5±1dBm
40	DFT_QAM256	11.5±1dBm	12±1dBm	12±1dBm	12.5±1dBm
40	CP_QPSK	14.5±1dBm	14.5±1dBm	15±1dBm	15.5±1dBm
50	DFT_BPSK	16±1dBm	16.5±1dBm	16±1dBm	117±1dBm
50	DFT_QPSK	16±1dBm	16.5±1dBm	16±1dBm	17±1dBm
50	DFT_QAM16	15±1dBm	15.5±1dBm	15±1dBm	16±1dBm
50	DFT_QAM64	13.5±1dBm	14±1dBm	13.5±1dBm	14.5±1dBm
50	DFT_QAM256	11.5±1dBm	12±1dBm	11.5±1dBm	12.5±1dBm
50	CP_QPSK	14.5±1dBm	15±1dBm	14.5±1dBm	15.5±1dBm
60	DFT_BPSK	16±1dBm	16.5±1dBm	16±1dBm	17±1dBm
60	DFT_QPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17±1dBm
60	DFT_QAM16	15±1dBm	15.5±1dBm	15.5±1dBm	16±1dBm
60	DFT_QAM64	13.5±1dBm	14±1dBm	13.5±1dBm	14.5±1dBm
60	DFT_QAM256	11.5±1dBm	12±1dBm	11.5±1dBm	12.5±1dBm
60	CP_QPSK	14.5±1dBm	15±1dBm	14.5±1dBm	15.5±1dBm
70	DFT_BPSK	16±1dBm	16±1dBm	16.5±1dBm	17±1dBm
70	DFT_QPSK	16±1dBm	16±1dBm	16.5±1dBm	17±1dBm
70	DFT_QAM16	15±1dBm	15±1dBm	15.5±1dBm	16±1dBm
70	DFT_QAM64	13.5±1dBm	14±1dBm	14±1dBm	14.5±1dBm
70	DFT_QAM256	11.5±1dBm	12±1dBm	12±1dBm	12.5±1dBm
70	CP_QPSK	14.5±1dBm	15±1dBm	15±1dBm	15.5±1dBm
80	DFT_BPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17.3±1dBm
80	DFT_QPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17.3±1dBm
80	DFT_QAM16	15±1dBm	15.5±1dBm	15.5±1dBm	16±1dBm

80	DFT_QAM64	13.5±1dBm	14±1dBm	14±1dBm	14.5±1dBm
80	DFT_QAM256	11.5±1dBm	12±1dBm	12±1dBm	13±1dBm
80	CP_QPSK	13.5±1dBm	15±1dBm	15±1dBm	16±1dBm
90	DFT_BPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17±1dBm
90	DFT_QPSK	16±1dBm	16.5±1dBm	16.5±1dBm	17±1dBm
90	DFT_QAM16	15±1dBm	15.5±1dBm	15.5±1dBm	16±1dBm
90	DFT_QAM64	13.5±1dBm	14±1dBm	14±1dBm	14.5±1dBm
90	DFT_QAM256	11.5±1dBm	12±1dBm	12±1dBm	12.5±1dBm
90	CP_QPSK	14.5±1dBm	15±1dBm	15±1dBm	15.5±1dBm
100	DFT_BPSK	16.2±1dBm	16.5±1dBm	16.6±1dBm	17.5±1dBm
100	DFT_QPSK	16.2±1dBm	16.5±1dBm	16.6±1dBm	17.5±1dBm
100	DFT_QAM16	15±1dBm	15.5±1dBm	15.5±1dBm	16±1dBm
100	DFT_QAM64	13.5±1dBm	14±1dBm	14±1dBm	14.5±1dBm
100	DFT_QAM256	11.5±1dBm	12±1dBm	12±1dBm	12.5±1dBm
100	CP_QPSK	14.5±1dBm	15±1dBm	15±1dBm	15.5±1dBm

BW[MHz]	Mode	NSA N78+B4	NSA N78+B4	NSA N78+B5
10	DFT_BPSK	16.5±1dBm	17.2±1dBm	16.5±1dBm
10	DFT_QPSK	16.5±1dBm	17.2±1dBm	16.5±1dBm
10	DFT_QAM16	15.5±1dBm	16.5±1dBm	15.5±1dBm
10	DFT_QAM64	14.5±1dBm	15±1dBm	14±1dBm
10	DFT_QAM256	12±1dBm	13±1dBm	12.5±1dBm
10	CP_QPSK	15±1dBm	16±1dBm	15±1dBm
15	DFT_BPSK	16.5±1dBm	17.2±1dBm	16.5±1dBm
15	DFT_QPSK	16.5±1dBm	17.2±1dBm	16.5±1dBm
15	DFT_QAM16	15.5±1dBm	16.5±1dBm	15.5±1dBm
15	DFT_QAM64	14±1dBm	15±1dBm	14±1dBm
15	DFT_QAM256	12.5±1dBm	13±1dBm	12.5±1dBm
15	CP_QPSK	15±1dBm	16±1dBm	15±1dBm
20	DFT_BPSK	16.5±1dBm	17.2±1dBm	16.5±1dBm
20	DFT_QPSK	16.5±1dBm	17.2±1dBm	16.5±1dBm
20	DFT_QAM16	15.5±1dBm	16.5±1dBm	15.5±1dBm
20	DFT_QAM64	14±1dBm	15±1dBm	14±1dBm
20	DFT_QAM256	12±1dBm	13±1dBm	12.5±1dBm
20	CP_QPSK	15±1dBm	16±1dBm	15±1dBm
40	DFT_BPSK	16.5±1dBm	17±1dBm	16.5±1dBm
40	DFT_QPSK	16.5±1dBm	17±1dBm	16.5±1dBm
40	DFT_QAM16	15.5±1dBm	16±1dBm	15.5±1dBm
40	DFT_QAM64	14±1dBm	14.5±1dBm	14±1dBm
40	DFT_QAM256	12±1dBm	12.5±1dBm	12±1dBm
40	CP_QPSK	15±1dBm	15.5±1dBm	15±1dBm
50	DFT_BPSK	16.5±1dBm	17±1dBm	16.5±1dBm
50	DFT_QPSK	16.5±1dBm	17±1dBm	16.5±1dBm
50	DFT_QAM16	15.5±1dBm	16±1dBm	15.5±1dBm
50	DFT_QAM64	14±1dBm	14.5±1dBm	14±1dBm
50	DFT_QAM256	12±1dBm	12.5±1dBm	12±1dBm
50	CP_QPSK	15±1dBm	15.5±1dBm	15±1dBm
60	DFT_BPSK	16.5±1dBm	17±1dBm	16.5±1dBm
60	DFT_QPSK	16.5±1dBm	17±1dBm	16.5±1dBm
60	DFT_QAM16	15.5±1dBm	16±1dBm	15.5±1dBm
60	DFT_QAM64	14±1dBm	14.5±1dBm	14±1dBm
60	DFT_QAM256	12±1dBm	12.5±1dBm	12±1dBm
60	CP_QPSK	15±1dBm	15.5±1dBm	15±1dBm
70	DFT_BPSK	16.5±1dBm	17±1dBm	16.5±1dBm
70	DFT_QPSK	16.5±1dBm	117±1dBm	16.5±1dBm
70	DFT_QAM16	15.5±1dBm	16±1dBm	15.5±1dBm
70	DFT_QAM64	14±1dBm	14.5±1dBm	14±1dBm
70	DFT_QAM256	12±1dBm	12.5±1dBm	12±1dBm
70	CP_QPSK	15±1dBm	15.5±1dBm	15±1dBm
80	DFT_BPSK	16.5±1dBm	17±1dBm	16.5±1dBm
80	DFT_QPSK	16.5±1dBm	17±1dBm	16.5±1dBm
80	DFT_QAM16	15.5±1dBm	16±1dBm	15.5±1dBm
80	DFT_QAM64	14±1dBm	14.5±1dBm	14±1dBm
80	DFT_QAM256	12±1dBm	12.5±1dBm	12±1dBm

80	CP_QPSK	15±1dBm	15.5±1dBm	15±1dBm
90	DFT_BPSK	16.5±1dBm	17±1dBm	16.5±1dBm
90	DFT_QPSK	16.5±1dBm	17±1dBm	16.5±1dBm
90	DFT_QAM16	15.5±1dBm	16±1dBm	15.5±1dBm
90	DFT_QAM64	14±1dBm	14.5±1dBm	14±1dBm
90	DFT_QAM256	12±1dBm	12.5±1dBm	12±1dBm
90	CP_QPSK	15±1dBm	15.5±1dBm	15±1dBm
100	DFT_BPSK	16.6±1dBm	17.3±1dBm	16.6±1dBm
100	DFT_QPSK	16.6±1dBm	17.3±1dBm	16.6±1dBm
100	DFT_QAM16	15.5±1dBm	16±1dBm	15.5±1dBm
100	DFT_QAM64	14±1dBm	14.5±1dBm	14±1dBm
100	DFT_QAM256	12±1dBm	12.5±1dBm	12±1dBm
100	CP_QPSK	15±1dBm	15.5±1dBm	15±1dBm

BW[MHz]	Mode	NSA N78+B5	NSA N78+B12	NSA N78+B12
10	DFT_BPSK	17.2±1dBm	16.5±1dBm	17.2±1dBm
10	DFT_QPSK	17.2±1dBm	16.5±1dBm	17.2±1dBm
10	DFT_QAM16	16.5±1dBm	15.5±1dBm	16.5±1dBm
10	DFT_QAM64	15±1dBm	14±1dBm	15±1dBm
10	DFT_QAM256	13±1dBm	12.5±1dBm	13±1dBm
10	CP_QPSK	16±1dBm	15±1dBm	16±1dBm
15	DFT_BPSK	17.2±1dBm	16.5±1dBm	17.2±1dBm
15	DFT_QPSK	17.2±1dBm	16.5±1dBm	17.2±1dBm
15	DFT_QAM16	16.5±1dBm	15.5±1dBm	16.5±1dBm
15	DFT_QAM64	15±1dBm	14±1dBm	15±1dBm
15	DFT_QAM256	13±1dBm	12.5±1dBm	13±1dBm
15	CP_QPSK	16±1dBm	15±1dBm	16±1dBm
20	DFT_BPSK	17.2±1dBm	16.5±1dBm	17.2±1dBm
20	DFT_QPSK	17.2±1dBm	16.5±1dBm	17.2±1dBm
20	DFT_QAM16	16.5±1dBm	15.5±1dBm	16.5±1dBm
20	DFT_QAM64	15±1dBm	14±1dBm	15±1dBm
20	DFT_QAM256	13±1dBm	12.5±1dBm	13±1dBm
20	CP_QPSK	16±1dBm	15±1dBm	16±1dBm
40	DFT_BPSK	17±1dBm	16.5±1dBm	17±1dBm
40	DFT_QPSK	17±1dBm	16.5±1dBm	17±1dBm
40	DFT_QAM16	16±1dBm	15.5±1dBm	16±1dBm
40	DFT_QAM64	14.5±1dBm	14±1dBm	14.5±1dBm
40	DFT_QAM256	12.5±1dBm	12±1dBm	12.5±1dBm
40	CP_QPSK	15.5±1dBm	15±1dBm	15.5±1dBm
50	DFT_BPSK	17±1dBm	16.5±1dBm	17±1dBm
50	DFT_QPSK	17±1dBm	16.5±1dBm	17±1dBm
50	DFT_QAM16	16±1dBm	15.5±1dBm	16±1dBm
50	DFT_QAM64	14.5±1dBm	14±1dBm	14.5±1dBm
50	DFT_QAM256	12.5±1dBm	12±1dBm	12.5±1dBm
50	CP_QPSK	15.5±1dBm	15±1dBm	15.5±1dBm
60	DFT_BPSK	17±1dBm	16.5±1dBm	17±1dBm
60	DFT_QPSK	17±1dBm	16.5±1dBm	17±1dBm
60	DFT_QAM16	16±1dBm	15.5±1dBm	16±1dBm
60	DFT_QAM64	14.5±1dBm	14±1dBm	14.5±1dBm
60	DFT_QAM256	12.5±1dBm	12±1dBm	12.5±1dBm
60	CP_QPSK	15.5±1dBm	15±1dBm	15.5±1dBm
70	DFT_BPSK	17±1dBm	16.5±1dBm	17±1dBm
70	DFT_QPSK	17±1dBm	16.5±1dBm	117±1dBm
70	DFT_QAM16	16±1dBm	15.5±1dBm	16±1dBm
70	DFT_QAM64	14.5±1dBm	14±1dBm	14.5±1dBm
70	DFT_QAM256	13±1dBm	12±1dBm	12.5±1dBm
70	CP_QPSK	15.5±1dBm	15±1dBm	15.5±1dBm
80	DFT_BPSK	17±1dBm	16.5±1dBm	17±1dBm
80	DFT_QPSK	17±1dBm	16.5±1dBm	17±1dBm
80	DFT_QAM16	16±1dBm	15.5±1dBm	16±1dBm
80	DFT_QAM64	14.5±1dBm	14±1dBm	14.5±1dBm
80	DFT_QAM256	12.5±1dBm	12±1dBm	12.5±1dBm

80	CP_QPSK	15.5±1dBm	15±1dBm	15.5±1dBm
90	DFT_BPSK	17±1dBm	16.5±1dBm	17±1dBm
90	DFT_QPSK	17±1dBm	16.5±1dBm	17±1dBm
90	DFT_QAM16	16±1dBm	15.5±1dBm	16±1dBm
90	DFT_QAM64	14.5±1dBm	14±1dBm	14.5±1dBm
90	DFT_QAM256	12.5±1dBm	12±1dBm	12.5±1dBm
90	CP_QPSK	15.5±1dBm	15±1dBm	15.5±1dBm
100	DFT_BPSK	17.4±1dBm	16.6±1dBm	16.3±1dBm
100	DFT_QPSK	17.4±1dBm	16.6±1dBm	16.3±1dBm
100	DFT_QAM16	16±1dBm	15.5±1dBm	16±1dBm
100	DFT_QAM64	14.5±1dBm	14±1dBm	14.5±1dBm
100	DFT_QAM256	12.5±1dBm	12±1dBm	12.5±1dBm
100	CP_QPSK	15.5±1dBm	15±1dBm	15.5±1dBm

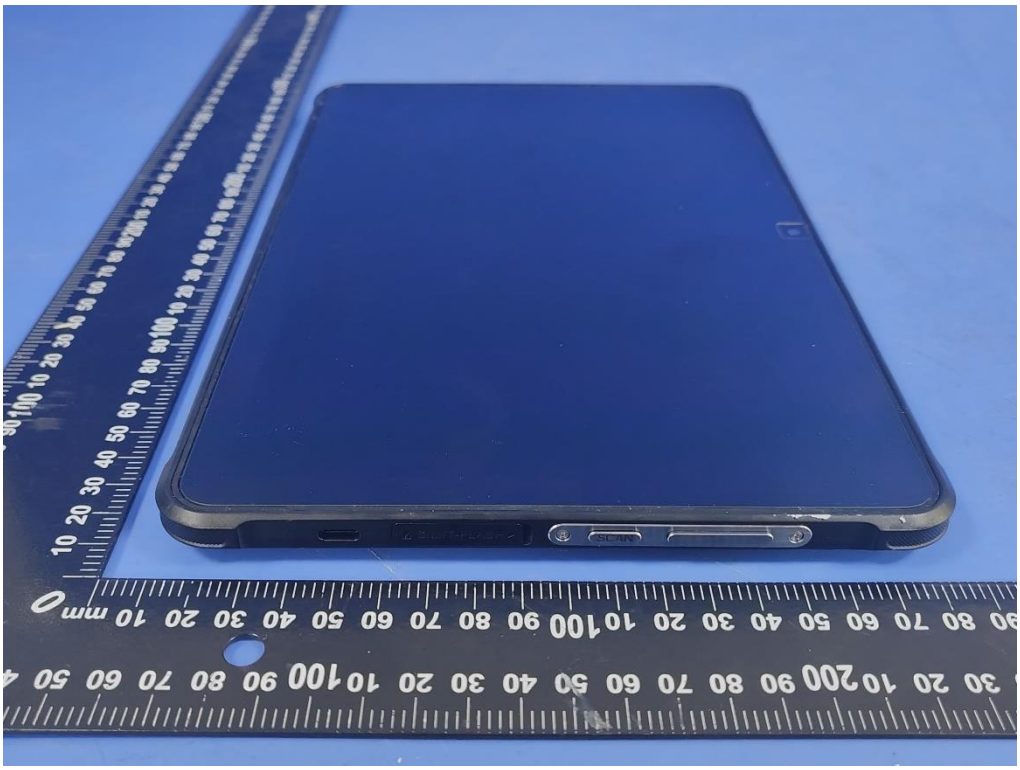
11. EUT and Test Setup Photo

11.1 EUT Photos

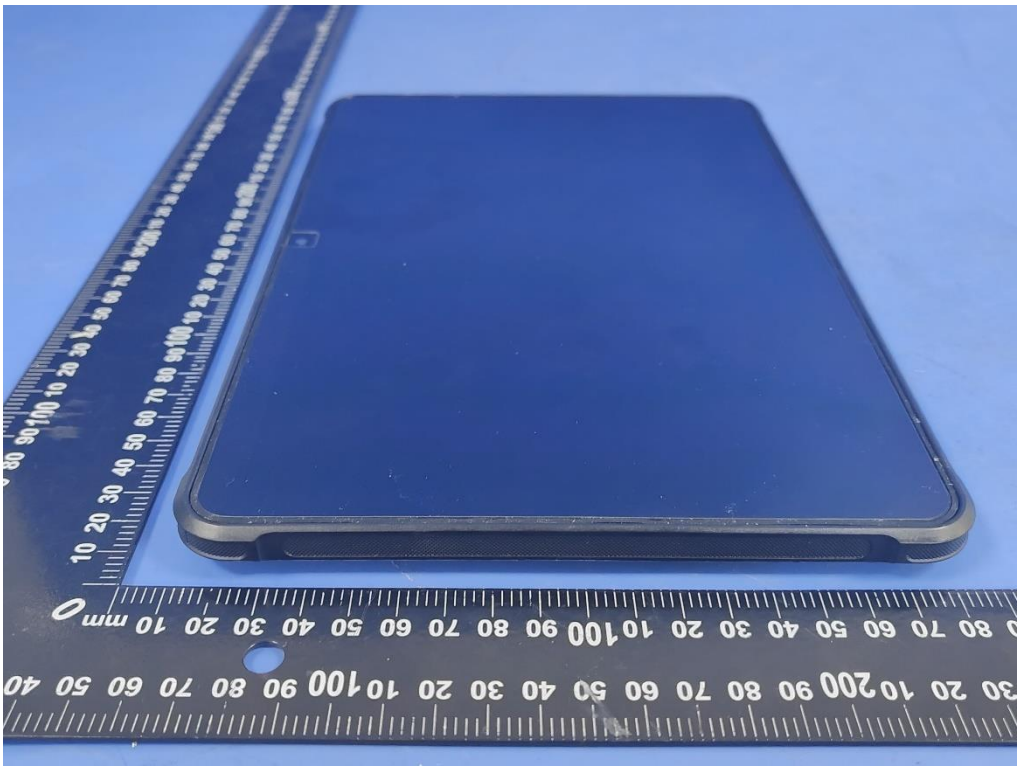
Front side

Back side

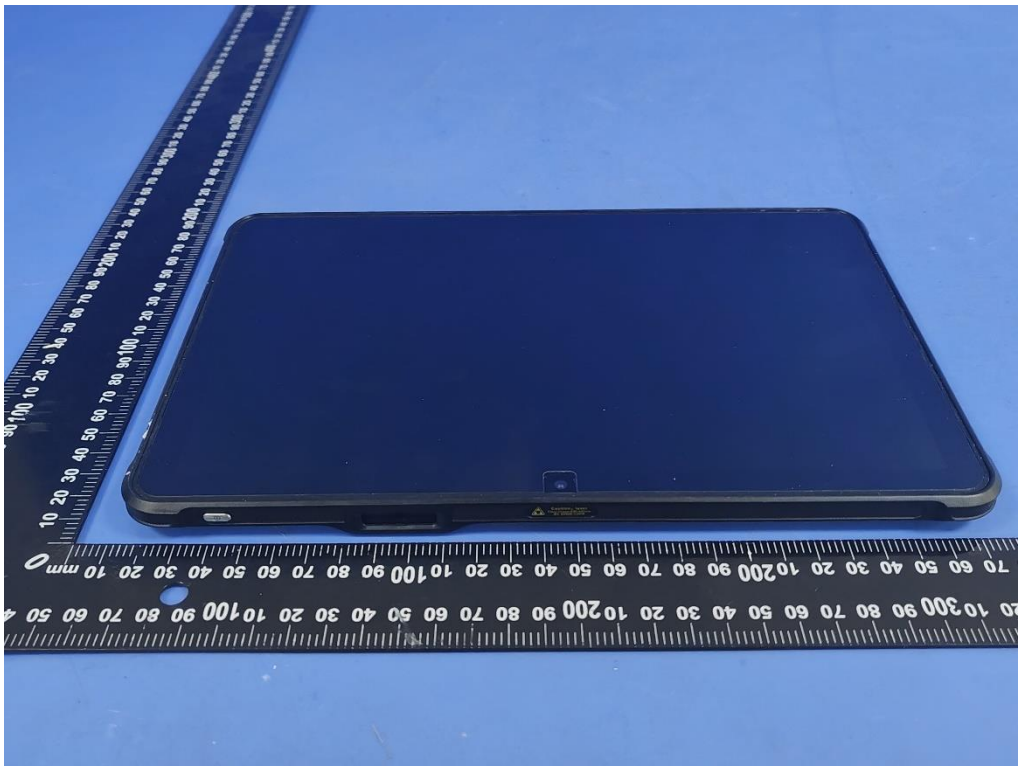
Right Edge



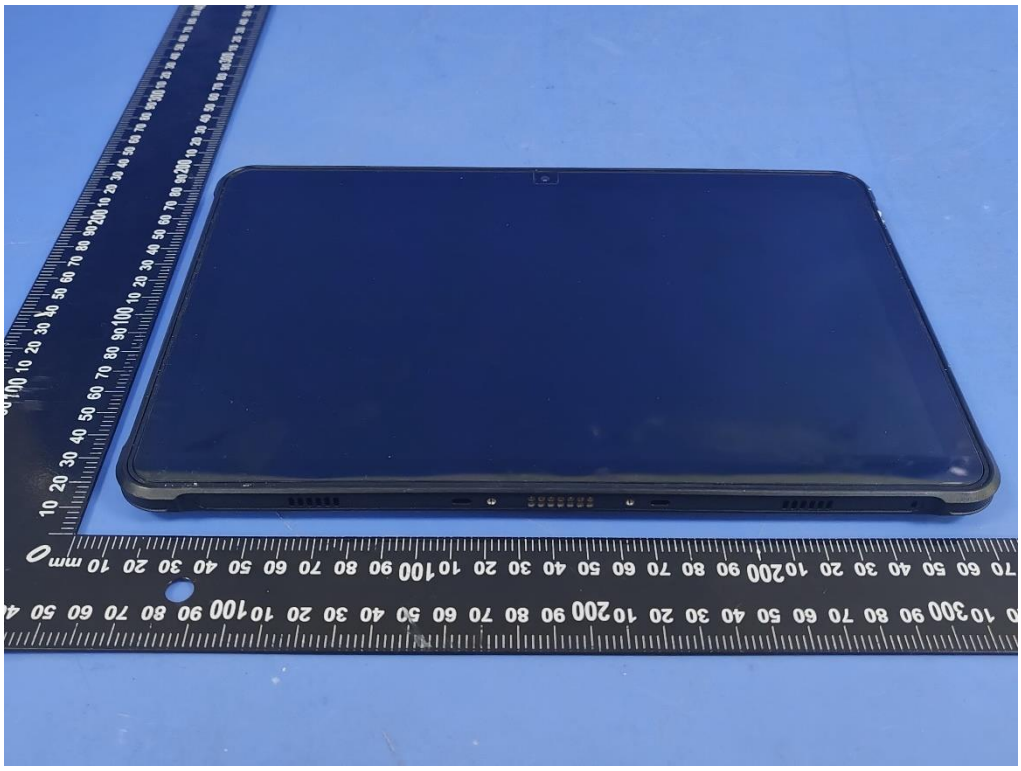
Left Edge



Top Edge



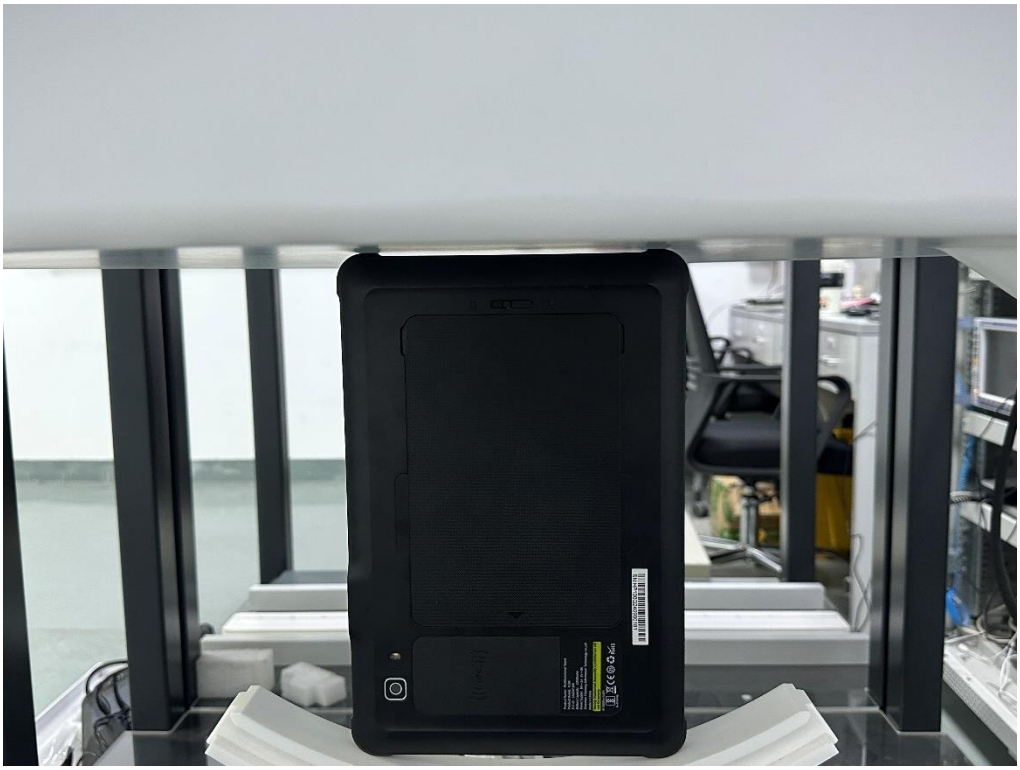
Bottom Edge



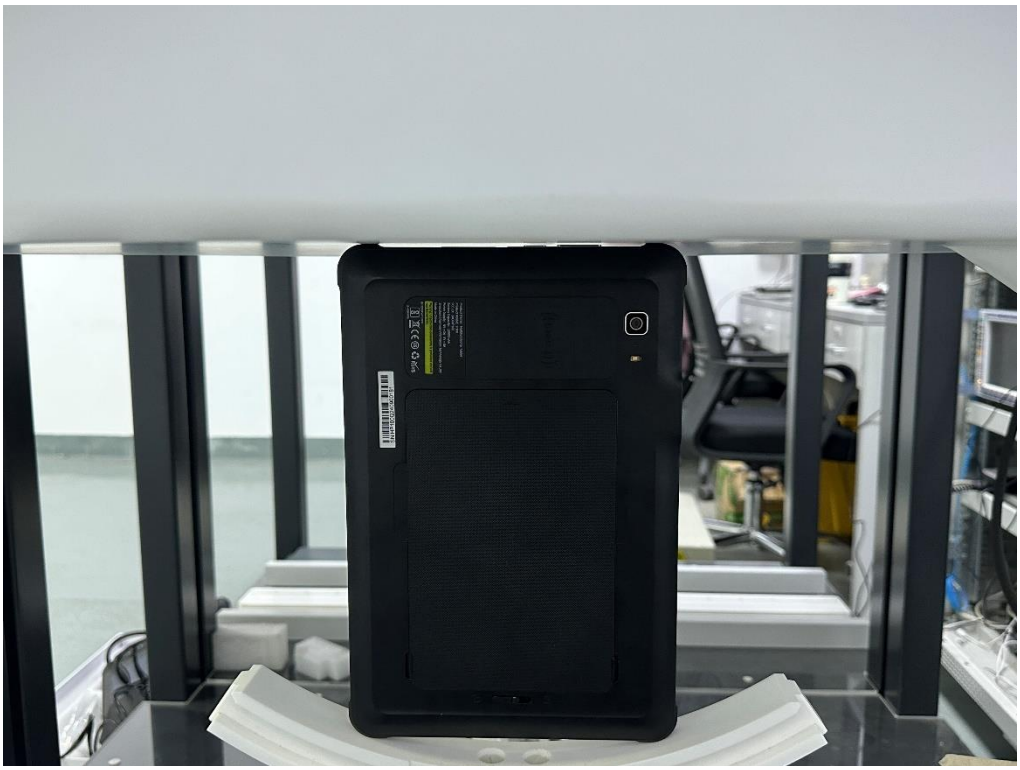
11.2 Setup Photos

Body Back side (separation distance 0mm)

Body Left side (separation distance is 0mm)

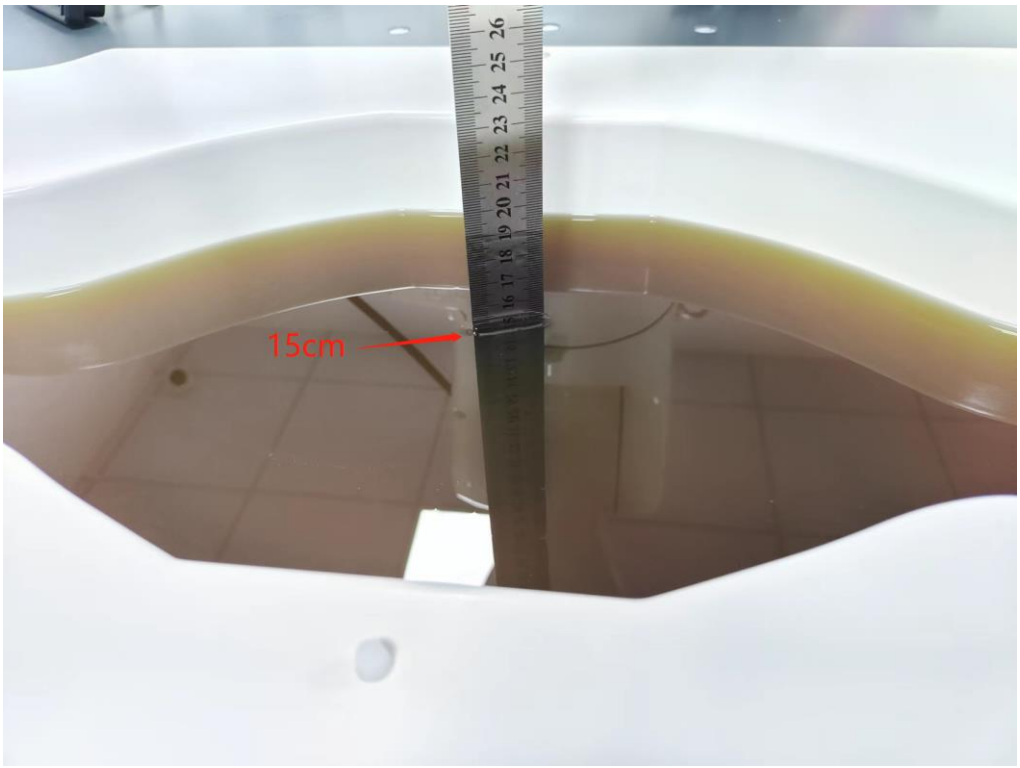


Body Right side (separation distance is 0mm)



Body Top side (separation distance is 0mm)

Liquid depth (15 cm)



12. SAR Result Summary

12.1 Body-worn and Hotspot SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
GSM850	GPRS Data-4 Slot	Back Side	848.8	0.682	-3.98	27.00	26.70	1.072	**0.731**	**1**
		Left Side	848.8	0.222	3.22	27.00	26.70	1.072	0.238	/
		Right Side	848.8	0.071	3.19	27.00	26.70	1.072	0.076	/
		Top Side	848.8	0.361	2.61	27.00	26.70	1.072	0.387	/
PCS 1900	EGPRS Data-2 Slot	Back Side	1850.2	0.667	2.64	25.00	24.65	1.084	**0.723**	**2**
		Left Side	1850.2	0.228	2.52	25.00	24.65	1.084	0.247	/
		Top Side	1850.2	0.364	-0.05	25.00	24.65	1.084	0.395	/
WCDMA Band II	RMC	Back Side	1907.6	0.627	-1.59	18.00	17.58	1.102	**0.691**	**3**
		Top Side	1907.6	0.368	0.66	18.00	17.58	1.102	0.405	/
WCDMA Band IV	RMC	Back Side	1712.6	0.684	1.23	17.00	16.57	1.104	**0.755**	**4**
		Top Side	1712.6	0.396	-2.34	17.00	16.57	1.104	0.437	/
WCDMA Band V	RMC	Back Side	826.4	0.660	1.72	24.00	23.80	1.047	**0.691**	**5**
		Left Side	826.4	0.213	2.87	24.00	23.80	1.047	0.223	/
		Top Side	826.4	0.350	-1.01	24.00	23.80	1.047	0.366	/
2.4GHz WLAN ANT 1	802.11b	Back Side	2412	0.279	-1.56	16.00	15.58	1.102	**0.307**	**6**
		Right Side	2412	0.168	2.74	16.00	15.58	1.102	0.185	/
		Top Side	2412	0.114	2.29	16.00	15.58	1.102	0.126	/
2.4GHz WLAN ANT 2	802.11b	Back Side	2412	0.213	1.03	16.50	16.27	1.054	**0.225**	**7**
		Top Side	2412	0.113	-0.40	16.50	16.27	1.054	0.119	/
2.4GHz WLAN MIMO 1	802.11ax-HE20	Back Side	2412	0.126	1.38	15.00	14.64	1.086	**0.137**	**8**
		Right Side	2412	0.077	-3.15	15.00	14.64	1.086	0.084	/
		Top Side	2412	0.054	-2.79	15.00	14.64	1.086	0.059	/
2.4GHz WLAN MIMO 2	802.11ax-HE20	Back Side	2412	0.058	2.08	15.00	14.64	1.086	**0.063**	**9**
		Right Side	2412	0.022	1.89	15.00	14.64	1.086	0.024	/
		Top Side	2412	0.013	3.51	15.00	14.64	1.086	0.014	/
5.2GHz WLAN ANT 1	802.11a	Back Side	5240	0.353	-0.31	14.00	13.79	1.050	**0.370**	**10**
		Right Side	5240	0.214	-1.06	14.00	13.79	1.050	0.225	/
		Top Side	5240	0.145	-2.38	14.00	13.79	1.050	0.152	/
5.2GHz WLAN ANT 2	802.11a	Back Side	5200	0.417	3.96	12.80	12.56	1.057	**0.441**	**11**
		Top Side	5200	0.268	-2.21	12.80	12.56	1.057	0.283	/
5.2GHz WLAN MIMO 1	802.11n-HT40	Back Side	5190	0.114	2.80	12.50	12.10	1.096	**0.125**	**12**
		Right Side	5190	0.068	2.28	12.50	12.10	1.096	0.075	/
		Top Side	5190	0.050	1.80	12.50	12.10	1.096	0.055	/
5.2GHz WLAN MIMO 2	802.11n-HT40	Back Side	5190	0.047	-3.21	12.50	12.10	1.096	**0.052**	**13**
		Right Side	5190	0.018	-0.35	12.50	12.10	1.096	0.020	/
		Top Side	5190	0.009	-1.67	12.50	12.10	1.096	0.010	/
5.3GHz WLAN ANT 1	802.11a	Back Side	5260	0.248	-1.94	12.00	11.62	1.091	**0.271**	**14**
		Right Side	5260	0.149	-2.36	12.00	11.62	1.091	0.163	/
		Top Side	5260	0.100	-3.93	12.00	11.62	1.091	0.109	/
5.3GHz WLAN ANT 2	802.11a	Back Side	5260	0.322	-1.98	13.00	12.95	1.012	**0.326**	**15**
		Top Side	5260	0.185	-0.33	13.00	12.95	1.012	0.187	/
5.3GHz WLAN MIMO 1	802.11ax-HE20	Back Side	5300	0.140	-2.77	12.00	11.79	1.050	**0.147**	**16**
		Right Side	5300	0.088	3.70	12.00	11.79	1.050	0.092	/
		Top Side	5300	0.058	-3.84	12.00	11.79	1.050	0.061	/
5.3GHz WLAN MIMO 2	802.11ax-HE20	Back Side	5300	0.166	2.10	12.00	11.79	1.050	**0.174**	**17**
		Right Side	5300	0.024	2.14	12.00	11.79	1.050	0.025	/
		Top Side	5300	0.096	-1.52	12.00	11.79	1.050	0.101	/

5.6GHz WLAN ANT 1	802.11a	Back Side	5700	0.199	-2.45	10.50	10.44	1.014	**0.202**	**18**
		Right Side	5700	0.120	2.59	10.50	10.44	1.014	0.122	/
		Top Side	5700	0.080	-1.70	10.50	10.44	1.014	0.081	/
5.6GHz WLAN ANT 2	802.11a	Back Side	5700	0.265	2.80	13.50	13.21	1.069	**0.283**	**19**
		Top Side	5700	0.163	-0.98	13.50	13.21	1.069	0.174	/
5.6GHz WLAN MIMO 1	802.11n-HT40	Back Side	5670	0.077	-0.13	11.50	11.16	1.081	**0.083**	**20**
		Right Side	5670	0.046	1.74	11.50	11.16	1.081	0.050	/
		Top Side	5670	0.034	-1.36	11.50	11.16	1.081	0.037	/
5.6GHz WLAN MIMO 2	802.11n-HT40	Back Side	5670	0.177	-0.83	11.50	11.16	1.081	**0.191**	**21**
		Right Side	5670	0.027	2.75	11.50	11.16	1.081	0.029	/
		Top Side	5670	0.114	0.42	11.50	11.16	1.081	0.123	/
5.8GHz WLAN ANT 1	802.11a	Back Side	5825	0.122	-2.06	10.50	10.37	1.030	**0.126**	**22**
		Right Side	5825	0.073	2.74	10.50	10.37	1.030	0.075	/
		Top Side	5825	0.049	-0.89	10.50	10.37	1.030	0.050	/
5.8GHz WLAN ANT 2	802.11ax-HE20	Back Side	5745	0.227	-0.71	13.00	12.77	1.054	**0.239**	**23**
		Top Side	5745	0.102	0.15	13.00	12.77	1.054	0.108	/
5.8GHz WLAN MIMO 1	802.11ax-HE20	Back Side	5785	0.063	1.63	11.50	11.20	1.072	**0.068**	**24**
		Right Side	5785	0.041	0.09	11.50	11.20	1.072	0.044	/
		Top Side	5785	0.028	-3.91	11.50	11.20	1.072	0.030	/
5.8GHz WLAN MIMO 2	802.11b	Back Side	5785	0.165	0.55	11.50	11.20	1.072	**0.177**	**25**
		Right Side	5785	0.023	0.53	11.50	11.20	1.072	0.025	/
		Top Side	5785	0.077	2.08	11.50	11.20	1.072	0.083	/

Band	Mode	Max SAR (W/Kg)	WIFI MIMO
2.4G WLAN	802.11ax-HE20	0.137	0.200
	802.11ax-HE20	0.063	
5.2G WLAN	802.11n-HT40	0.125	0.177
	802.11n-HT40	0.052	
5.3G WLAN	802.11ax-HE20	0.147	0.321
	802.11ax-HE20	0.174	
5.6G WLAN	802.11n-HT40	0.083	0.274
	802.11n-HT40	0.191	
5.8G WLAN	802.11ax-HE20	0.068	0.245
	802.11ax-HE20	0.177	

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	49	Back Side	1880	0.677	-1.70	18.00	17.65	1.084	**0.734**	**26**
			50	49	Back Side	1860	0.599	-2.23	17.00	16.58	1.102	0.660	/
			1	49	Top Side	1880	0.391	3.41	18.00	17.65	1.084	0.424	/
			50	49	Top Side	1860	0.347	1.98	17.00	16.58	1.102	0.382	/
LTE Band 4	20M	QPSK	1	49	Back Side	1732.5	0.703	-3.64	17.00	16.67	1.079	**0.758**	**27**
			50	0	Back Side	1720	0.622	-2.09	15.50	15.48	1.005	0.625	/
			1	49	Top Side	1732.5	0.402	-0.17	17.00	16.67	1.079	0.434	/
			50	0	Top Side	1720	0.353	3.21	15.50	15.48	1.005	0.355	/
LTE Band 5	10M	QPSK	1	49	Back Side	829	0.638	1.73	24.00	23.86	1.033	**0.659**	**18**
			25	24	Back Side	829	0.563	2.72	23.50	23.02	1.117	0.629	/
			1	49	Left Side	829	0.209	-1.60	24.00	23.86	1.033	0.216	/
			25	24	Left Side	829	0.187	-0.89	23.50	23.02	1.117	0.209	/
			1	49	Top Side	829	0.375	0.27	24.00	23.86	1.033	0.387	/
			25	24	Top Side	829	0.333	-3.20	23.50	23.02	1.117	0.372	/
LTE Band 7	20M	QPSK	1	99	Back Side	2510	0.613	-0.49	23.50	23.10	1.096	**0.672**	**29**
			50	49	Back Side	2510	0.542	2.85	22.30	22.06	1.057	0.573	/
			1	99	Left Side	2510	0.198	-2.11	23.50	23.10	1.096	0.217	/
			50	49	Left Side	2510	0.174	-2.25	22.30	22.06	1.057	0.184	/
			1	99	Top Side	2510	0.339	-2.69	23.50	23.10	1.096	0.372	/
			50	49	Top Side	2510	0.299	-3.51	22.30	22.06	1.057	0.316	/
LTE Band 12	10M	QPSK	1	49	Back Side	704	0.738	1.46	24.00	23.76	1.057	0.780	/
			1	49	Back Side	707.5	0.702	-1.31	24.00	23.58	1.102	0.773	/
			1	49	Back Side	711	0.778	-2.61	24.00	23.82	1.042	**0.811**	**30**
			25	24	Back Side	711	0.684	2.38	23.00	22.76	1.057	0.723	/
			1	49	Left Side	711	0.250	2.04	24.00	23.82	1.042	0.261	/
			25	24	Left Side	711	0.223	-1.91	23.00	22.76	1.057	0.236	/
			1	49	Top Side	711	0.423	-2.77	24.00	23.82	1.042	0.441	/
			25	24	Top Side	711	0.375	-3.31	23.00	22.76	1.057	0.396	/

LTE Band 13	10M	QPSK	1	49	Back Side	782	0.521	2.09	24.50	24.21	1.069	**0.557**	**31**
			25	24	Back Side	782	0.458	3.69	23.50	23.20	1.072	0.491	/
			1	49	Left Side	782	0.182	0.94	24.50	24.21	1.069	0.195	/
			25	24	Left Side	782	0.163	3.64	23.50	23.20	1.072	0.175	/
			1	49	Top Side	782	0.282	0.53	24.50	24.21	1.069	0.301	/
			25	24	Top Side	782	0.250	-2.66	23.50	23.20	1.072	0.268	/
LTE Band 17	10M	QPSK	1	49	Back Side	709	0.729	-1.21	24.50	24.00	1.122	0.818	/
			1	49	Back Side	710	0.710	3.91	24.50	23.98	1.127	0.800	/
			1	49	Back Side	711	0.781	-3.06	24.50	24.14	1.086	**0.848**	**32**
			25	24	Back Side	709	0.686	-0.99	23.50	23.12	1.091	0.749	/
			1	49	Left Side	711	0.254	3.78	24.50	24.14	1.086	0.276	/
			25	24	Left Side	709	0.226	-0.46	23.50	23.12	1.091	0.247	/
			1	49	Top Side	711	0.448	-0.29	24.50	24.14	1.086	0.487	/
			25	24	Top Side	709	0.397	-1.59	23.50	23.12	1.091	0.433	/
LTE Band 25	20M	QPSK	1	99	Back Side	1860	0.793	-3.80	19.00	18.63	1.089	**0.864**	**33**
			1	99	Back Side	1882.5	0.751	-0.75	19.00	18.54	1.112	0.835	/
			1	99	Back Side	1905	0.712	-3.19	19.00	18.39	1.151	0.819	/
			50	49	Back Side	1860	0.701	-0.82	18.00	17.66	1.081	0.758	/
			1	99	Top Side	1860	0.453	-1.60	19.00	18.63	1.089	0.493	/
			50	49	Top Side	1860	0.400	-3.32	18.00	17.66	1.081	0.433	/
LTE Band 26	15M	QPSK	1	74	Back Side	831.5	0.639	2.03	24.00	23.96	1.009	**0.645**	**34**
			36	39	Back Side	831.5	0.564	-3.69	23.00	22.87	1.030	0.581	/
			1	74	Left Side	831.5	0.213	-1.78	24.00	23.96	1.009	0.215	/
			36	39	Left Side	831.5	0.191	2.15	23.00	22.87	1.030	0.197	/
			1	74	Top Side	831.5	0.338	-3.41	24.00	23.96	1.009	0.341	/
			36	39	Top Side	831.5	0.299	-3.25	23.00	22.87	1.030	0.308	/

LTE Band 38	20M	QPSK	1	49	Back Side	2595	0.569	-0.84	20.00	19.78	1.052	**0.599**	**35**
			50	24	Back Side	2595	0.502	2.60	19.00	18.66	1.081	0.543	/
			1	49	Left Side	2595	0.289	1.20	20.00	19.78	1.052	0.304	/
			50	24	Left Side	2595	0.253	-1.97	19.00	18.66	1.081	0.274	/
			1	49	Top Side	2595	0.101	-0.44	20.00	19.78	1.052	0.106	/
			50	24	Top Side	2595	0.088	-1.87	19.00	18.66	1.081	0.095	/
			1	49	Bottom Side	2595	0.054	-0.61	20.00	19.78	1.052	0.057	/
			50	24	Bottom Side	2595	0.049	-2.12	19.00	18.66	1.081	0.053	/
LTE Band 41	20M	QPSK	1	0	Back Side	2680	0.517	3.15	21.00	20.68	1.076	**0.557**	**36**
			50	0	Back Side	2680	0.456	3.47	21.00	20.65	1.084	0.494	/
			1	0	Left Side	2680	0.259	1.24	21.00	20.68	1.076	0.279	/
			50	0	Left Side	2680	0.228	-1.37	21.00	20.65	1.084	0.247	/
			1	0	Top Side	2680	0.102	-0.06	21.00	20.68	1.076	0.110	/
			50	0	Top Side	2680	0.091	3.55	21.00	20.65	1.084	0.099	/
			1	0	Bottom Side	2680	0.046	-1.17	21.00	20.68	1.076	0.050	/
			50	0	Bottom Side	2680	0.043	-2.41	21.00	20.65	1.084	0.047	/
LTE Band 66	20M	QPSK	1	49	Back Side	1720	0.742	1.56	17.00	16.67	1.079	**0.801**	**37**
			1	49	Back Side	1745	0.706	-0.57	17.00	16.58	1.102	0.778	/
			1	49	Back Side	1770	0.675	-1.76	17.00	16.32	1.169	0.789	/
			50	24	Back Side	1720	0.651	1.92	15.50	15.48	1.005	0.654	/
			1	49	Top Side	1720	0.445	-0.73	17.00	16.67	1.079	0.480	/
			50	24	Top Side	1720	0.391	3.36	15.50	15.48	1.005	0.393	/
LTE Band 71	20M	QPSK	1	49	Back Side	673	0.672	-1.41	24.50	24.15	1.084	**0.728**	**38**
			50	49	Back Side	673	0.591	-3.87	23.50	23.28	1.052	0.622	/
			1	49	Left Side	673	0.217	-1.08	24.50	24.15	1.084	0.235	/
			50	49	Left Side	673	0.193	2.41	23.50	23.28	1.052	0.203	/
			1	49	Top Side	673	0.361	-1.97	24.50	24.15	1.084	0.391	/
			50	49	Top Side	673	0.321	0.57	23.50	23.28	1.052	0.338	/

SA N2	20M	DFT_QPSK	1	104	Back Side	1900	0.233	-0.50	20.50	20.14	1.086	0.253	/
			50	25	Back Side	1860	0.260	0.21	20.50	20.23	1.064	**0.277**	**39**
			1	104	Left Side	1900	0.114	2.53	20.50	20.14	1.086	0.124	/
			50	25	Left Side	1860	0.128	-1.40	20.50	20.23	1.064	0.136	/
			1	104	Top Side	1900	0.036	-0.63	20.50	20.14	1.086	0.039	/
			50	25	Top Side	1860	0.039	3.30	20.50	20.23	1.064	0.042	/
SA N5	20M	DFT_BPSK	1	1	Back Side	836.5	0.509	0.70	23.00	22.72	1.067	0.543	/
			50	25	Back Side	834	0.579	0.98	23.00	22.95	1.012	**0.586**	**40**
			1	1	Left Side	836.5	0.168	1.96	23.00	22.72	1.067	0.179	/
			50	25	Left Side	834	0.190	-3.71	23.00	22.95	1.012	0.192	/
			1	1	Top Side	836.5	0.286	-2.58	23.00	22.72	1.067	0.305	/
			50	25	Top Side	834	0.326	0.43	23.00	22.95	1.012	0.330	/
SA N7	20M	DFT_QPSK	1	104	Back Side	2510	0.594	3.98	19.50	19.21	1.069	0.635	/
			50	25	Back Side	2510	0.672	1.42	19.50	19.40	1.023	**0.688**	**41**
			1	104	Left Side	2510	0.293	-2.71	19.50	19.21	1.069	0.313	/
			50	25	Left Side	2510	0.335	-1.23	19.50	19.40	1.023	0.343	/
			1	104	Top Side	2510	0.121	0.15	19.50	19.21	1.069	0.129	/
			50	25	Top Side	2510	0.136	-1.17	19.50	19.40	1.023	0.139	/
SA N12	15M	DFT_QPSK	1	77	Back Side	707.5	0.584	3.73	23.00	22.65	1.084	0.633	/
			36	18	Back Side	708.5	0.660	-2.23	23.00	22.93	1.016	**0.671**	**42**
			1	77	Left Side	707.5	0.196	-0.62	23.00	22.65	1.084	0.212	/
			36	18	Left Side	708.5	0.222	-3.69	23.00	22.93	1.016	0.226	/
			1	77	Top Side	707.5	0.320	-0.17	23.00	22.65	1.084	0.347	/
			36	18	Top Side	708.5	0.364	2.81	23.00	22.93	1.016	0.370	/
SA N13	10M	DFT_BPSK	1	1	Back Side	782	0.341	2.26	23.30	22.82	1.117	0.381	/
			25	0	Back Side	782	0.387	-2.29	23.30	22.91	1.094	**0.423**	**43**
			1	1	Left Side	782	0.120	-0.95	23.30	22.82	1.117	0.134	/
			25	0	Left Side	782	0.134	3.87	23.30	22.91	1.094	0.147	/
			1	1	Top Side	782	0.200	1.88	23.30	22.82	1.117	0.223	/
			25	0	Top Side	782	0.227	-3.11	23.30	22.91	1.094	0.248	/

SA N25	20M	DFT_QPSK	1	1	Back Side	1860	0.379	-3.95	20.80	20.27	1.130	0.428	/
			50	25	Back Side	1860	0.431	1.11	20.80	20.32	1.117	**0.481**	**44**
			1	1	Left Side	1860	0.183	1.59	20.80	20.27	1.130	0.207	/
			50	25	Left Side	1860	0.207	-2.50	20.80	20.32	1.117	0.231	/
			1	1	Top Side	1860	0.086	-1.43	20.80	20.27	1.130	0.097	/
			50	25	Top Side	1860	0.094	-3.75	20.80	20.32	1.117	0.105	/
SA N26	20M	DFT_QPSK	1	1	Back Side	841.5	0.572	1.47	23.30	22.81	1.119	0.640	/
			50	25	Back Side	831.5	0.650	-3.97	23.30	23.00	1.072	**0.696**	**45**
			1	1	Left Side	841.5	0.191	-0.68	23.30	22.81	1.119	0.214	/
			50	25	Left Side	831.5	0.217	3.05	23.30	23.00	1.072	0.233	/
			1	1	Top Side	841.5	0.328	-0.85	23.30	22.81	1.119	0.367	/
			50	25	Top Side	831.5	0.368	3.43	23.30	23.00	1.072	0.394	/
SA N38	40M	DFT_BPSK	1	104	Back Side	2600	0.353	0.27	17.00	16.41	1.146	0.404	/
			50	25	Back Side	2600	0.401	-0.56	17.00	16.49	1.125	**0.451**	**46**
			1	104	Left Side	2600	0.186	0.59	17.00	16.41	1.146	0.213	/
			50	25	Left Side	2600	0.210	3.18	17.00	16.49	1.125	0.236	/
SA N41	100M	DFT_QPSK	1	271	Back Side	2640	0.296	-0.80	20.20	19.71	1.119	0.331	/
			135	67	Back Side	2640	0.335	-3.95	20.20	19.85	1.084	**0.363**	**47**
			1	271	Left Side	2640	0.147	1.01	20.20	19.71	1.119	0.165	/
			135	67	Left Side	2640	0.164	2.98	20.20	19.85	1.084	0.178	/
			1	271	Top Side	2640	0.068	-1.18	20.20	19.71	1.119	0.076	/
			135	67	Top Side	2640	0.079	2.13	20.20	19.85	1.084	0.086	/
SA N66	40M	DFT_QPSK	1	214	Back Side	1760	0.373	-0.94	20.20	19.47	1.183	0.441	/
			108	54	Back Side	1760	0.422	-3.52	20.20	19.84	1.086	**0.458**	**48**
			1	214	Left Side	1760	0.185	2.14	20.20	19.47	1.183	0.219	/
			108	54	Left Side	1760	0.212	3.56	20.20	19.84	1.086	0.230	/
			1	214	Top Side	1760	0.072	0.18	20.20	19.47	1.183	0.085	/
			108	54	Top Side	1760	0.078	-0.41	20.20	19.84	1.086	0.085	/
SA N71	20M	DFT_QPSK	1	0	Back Side	680.5	0.522	0.50	23.50	23.02	1.117	0.583	/
			50	25	Back Side	673	0.590	1.06	23.50	23.11	1.094	**0.645**	**49**
			1	0	Left Side	680.5	0.180	-1.37	23.50	23.02	1.117	0.201	/
			50	25	Left Side	673	0.203	-2.64	23.50	23.11	1.094	0.222	/
			1	0	Top Side	680.5	0.310	1.76	23.50	23.02	1.117	0.346	/

			50	25	Top Side	673	0.353	-1.51	23.50	23.11	1.094	0.386	/
SA N77	100M	DFT_QPSK	1	271	Back Side	3750	0.401	2.84	17.50	17.10	1.096	0.440	/
			135	67	Back Side	3750	0.457	-0.73	17.50	17.39	1.026	**0.469**	**50**
			1	271	Left Side	3750	0.194	-3.53	17.50	17.10	1.096	0.213	/
			135	67	Left Side	3750	0.221	-0.03	17.50	17.39	1.026	0.227	/

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	1g SAR for 50% Duty cycle (W/Kg)	Power Drift(%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
SA N78	100M	DFT_ QPSK	1	271	Back Side	3750	0.503	0.252	0.69	18.50	17.53	1.250	0.314	/
			135	67	Back Side	3750	0.570	0.285	-0.90	18.50	17.85	1.161	**0.331**	**51**
			1	271	Left Side	3750	0.246	0.123	-1.55	18.50	17.53	1.250	0.154	/
			135	67	Left Side	3750	0.276	0.138	-0.09	18.50	17.85	1.161	0.160	/

NSA

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	1g SAR for 50% Duty cycle (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
SA N78	100M	DFT_ QPSK	1	271	Back Side	3750	0.503	0.252	0.69	18.50	17.53	1.250	0.314	/
			135	67	Back Side	3750	0.570	0.285	-0.90	18.50	17.85	1.161	**0.331**	**51**
			1	271	Left Side	3750	0.246	0.123	-1.55	18.50	17.53	1.250	0.154	/
			135	67	Left Side	3750	0.276	0.138	-0.09	18.50	17.85	1.161	0.160	/
LTE Band 4	20M	QPSK	1	49	Back Side	1732.5	0.703	/	-3.64	17.00	16.67	1.079	**0.758**	**27**
			50	0	Back Side	1720	0.622	/	-2.09	15.50	15.48	1.005	0.625	/
			1	49	Top Side	1732.5	0.402	/	-0.17	17.00	16.67	1.079	0.434	/
			50	0	Top Side	1720	0.353	/	3.21	15.50	15.48	1.005	0.355	/
LTE Band 5	10M	QPSK	1	49	Back Side	829	0.638	/	1.73	24.00	23.86	1.033	**0.659**	**18**
			25	24	Back Side	829	0.563	/	2.72	23.50	23.02	1.117	0.629	/
			1	49	Left Side	829	0.209	/	-1.60	24.00	23.86	1.033	0.216	/
			25	24	Left Side	829	0.187	/	-0.89	23.50	23.02	1.117	0.209	/
			1	49	Top Side	829	0.375	/	0.27	24.00	23.86	1.033	0.387	/
			25	24	Top Side	829	0.333	/	-3.20	23.50	23.02	1.117	0.372	/
LTE Band 12	10M	QPSK	1	49	Back Side	704	0.738	/	1.46	23.90	23.76	1.033	0.762	/
			1	49	Back Side	707.5	0.702	/	-1.31	23.90	23.58	1.076	0.756	/
			1	49	Back Side	711	0.778	/	-2.61	23.90	23.82	1.019	**0.792**	**30**
			25	24	Back Side	711	0.684	/	2.38	23.00	22.76	1.057	0.723	/
			1	49	Left Side	711	0.250	/	2.04	23.90	23.82	1.019	0.255	/
			25	24	Left Side	711	0.223	/	-1.91	23.00	22.76	1.057	0.236	/
			1	49	Top Side	711	0.423	/	-2.77	23.90	23.82	1.019	0.431	/
			25	24	Top Side	711	0.375	/	-3.31	23.00	22.76	1.057	0.396	/

Band	Mode	Max SAR (W/Kg)	NSA N78+B4
NSA N78+B4	SA N78	0.331	1.089
	LTE B4	0.758	
Band	Mode	Max SAR (W/Kg)	NSA N78+B5
NSA N78+B5	SA N78	0.331	0.990
	LTE B5	0.659	
Band	Mode	Max SAR (W/Kg)	NSA N78+B12
NSA N78+B12	SA N78	0.331	1.123
	LTE B12	0.792	

Note:

1. The test separation of all above table is 0mm.
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. Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor
3. Due to test setup imitations, SAR testing for NR was performed using test mode software to establish the connection.
4. Manufacturer declares operating duty cycle to be 100% and 50% for 5G NR (FR1) TDD Power Class 3 and Power Class 2 respectively, N78 is used power class 2.

12.2 Repeated SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)
LTE Band 17	10M	QPSK	1	49	Back Side	709	0.707	0.01	24.50	24.00	1.122	0.793
			1	49	Back Side	710	0.709	0.52	24.50	23.98	1.127	0.799
			1	49	Back Side	711	0.775	-0.06	24.50	24.14	1.086	0.842
LTE Band 25	20M	QPSK	1	99	Back Side	1860	0.767	1.92	19.00	18.63	1.089	0.835
			1	99	Back Side	1882.5	0.733	1.69	19.00	18.54	1.112	0.815
			1	99	Back Side	1905	0.712	2.17	19.00	18.39	1.151	0.820
LTE Band 66	20M	QPSK	1	49	Back Side	1720	0.727	-3.66	17.00	16.67	1.079	0.784

12.3 Repeated SAR measurement

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg) 1g (W/Kg)	1 st Repeated SAR 1g	Ratio
LTE Band 17	10M	QPSK	1	49	Back Side	709	0.729	0.707	1.031
			1	49	Back Side	710	0.710	0.709	1.001
			1	49	Back Side	711	0.781	0.775	1.008
LTE Band 25	20M	QPSK	1	99	Back Side	1860	0.793	0.767	1.034
			1	99	Back Side	1882.5	0.751	0.733	1.025
			1	99	Back Side	1905	0.712	0.712	1.000
LTE Band 66	20M	QPSK	1	49	Back Side	1720	0.742	0.727	1.020

Note:

1. Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is≥0.8W/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＜1.45W/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 ≥1.45W/Kg.
4. The ratio is the difference in percentage between original and repeated measured SAR.

12.4 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

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

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. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. 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) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f (GHz) /x] W/kg for test separation distances≤ 50 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 >50mm.

Estimated SAR		Maximum Turn-up Power		Antenna to user(mm)	Frequency(GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Body	8	6.310	5	2.44	0.263
NFC	Body	-43	0.000050	5	0.01356	0.0000002

Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN + NFC	Body	GSM	0.731	1.038
		NFC	0.0000002	
		2.4G WLAN	0.307	
GSM + Bluetooth+ NFC	Body	GSM	0.731	0.994
		NFC	0.0000002	
		BT	0.263	

GSM + 5G WLAN+ NFC	Body	GSM	0.731	1.172
		NFC	0.0000002	
		5G WLAN	0.441	
WCDMA + 2.4G WLAN + NFC	Body	WCDMA	0.755	1.062
		NFC	0.0000002	
		2.4G WLAN	0.307	
WCDMA + Bluetooth+ NFC	Body	WCDMA	0.755	1.018
		NFC	0.0000002	
		BT	0.263	
WCDMA + 5G WLAN+ NFC	Body	WCDMA	0.755	1.196
		NFC	0.0000002	
		5G WLAN	0.441	
LTE + 2.4G WLAN + NFC	Body	LTE	0.864	1.171
		NFC	0.0000002	
		2.4G WLAN	0.307	
LTE + Bluetooth+ NFC	Body	LTE	0.864	1.127
		NFC	0.0000002	
		BT	0.263	
LTE + 5G WLAN+ NFC	Body	LTE	0.864	1.305
		NFC	0.0000002	
		5G WLAN	0.441	
NR SA + 2.4G WLAN + NFC	Body	NR SA	0.696	1.003
		NFC	0.0000002	
		2.4G WLAN	0.307	
NR SA + Bluetooth+ NFC	Body	NR SA	0.696	0.959
		NFC	0.0000002	
		BT	0.263	
NR SA + 5G WLAN+ NFC	Body	NR SA	0.696	1.137
		NFC	0.0000002	
		5G WLAN	0.441	
NSA + 2.4G WLAN + NFC	Body	NSA	1.123	1.430
		NFC	0.0000002	
		2.4G WLAN	0.307	
NSA + Bluetooth+ NFC	Body	NSA	1.123	1.386
		NFC	0.0000002	
		BT	0.263	
NSA + 5G WLAN+ NFC	Body	NSA	1.123	1.564
		NFC	0.0000002	
		5G WLAN	0.441	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	DIP0G750	SN 06/22 DIP0G750-638	2025.02.05	2028.02.04
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2025.02.05	2028.02.04
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2025.02.05	2028.02.04
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2025.02.05	2028.02.04
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2025.02.05	2028.02.04
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2025.02.05	2028.02.04
3700MHz Dipole	MVG	DIP3G700	SN 06/22 DIP3G700-648	2025.02.05	2028.02.04
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2025.02.05	2028.02.04
E-Field Probe	MVG	EPGO364	SN 04/22 EPGO364	2025.02.05	2026.02.04
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2025.02.05	2026.02.04
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	ZVL	R&S	116184	2025.03.05	2026.03.04
Multi Meter	DMM6500	Keithley	4527252	2025.03.06	2026.03.05
Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Wireless Communication Test Set	R&S	CMW500	137737	2025.03.05	2026.03.04
Power Sensor	R&S	Z11	116184	2025.03.05	2026.03.04
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2025.03.05	2026.03.04
Temperature hygrometer	N/A	TP101	N/A	2025.03.05	2026.03.04

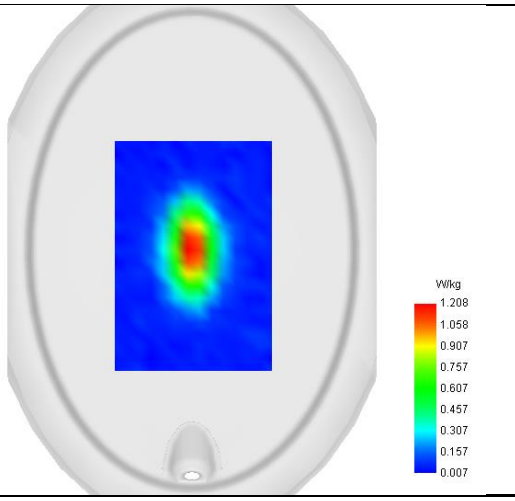
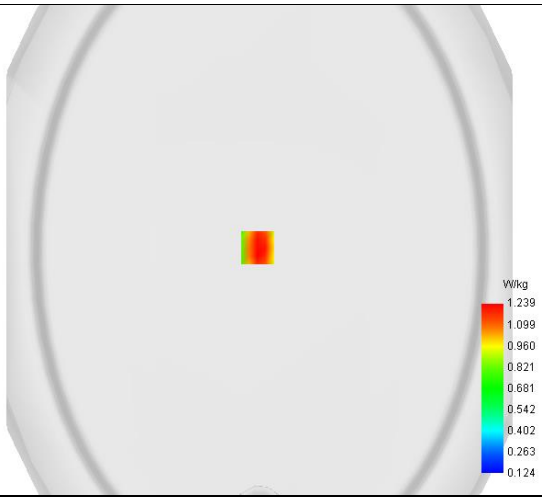
Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-04-23

Experimental conditions.

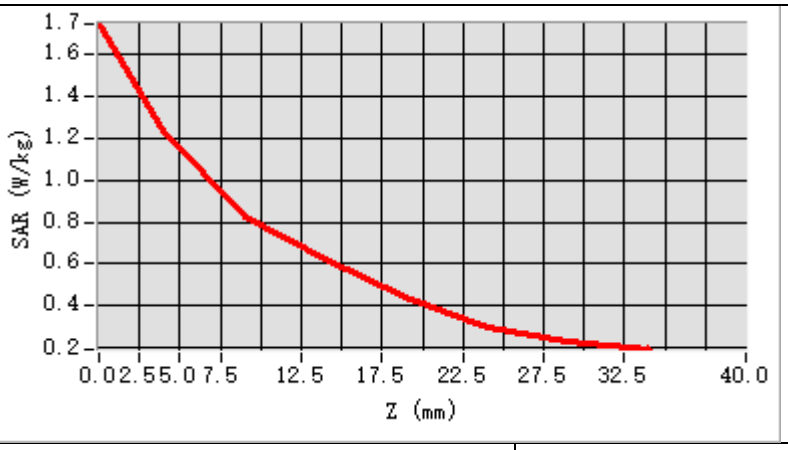
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.15
Conductivity (S/m)	0.88
Probe	SN 04/22 EPGO364
ConvF	1.67
Crest factor:	1:1

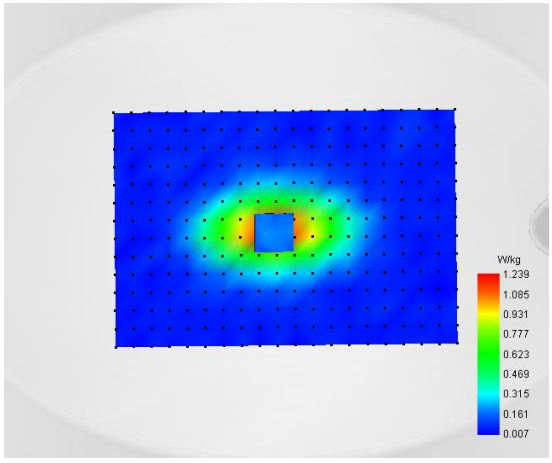
SURFACE SAR	VOLUME SAR
	

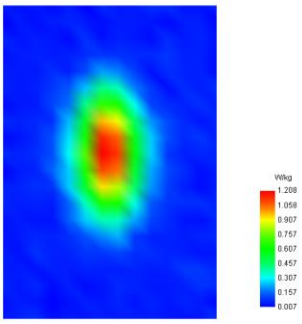
Maximum location: X=-2.00, Y=2.00 ; SAR Peak: 1.72 W/kg

SAR 10g (W/Kg)	0.584
SAR 1g (W/Kg)	0.823

Z Axis Scan


SAR (W/kg)
1.7
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)


W/kg
1.239
1.085
0.931
0.777
0.623
0.469
0.315
0.161
0.007

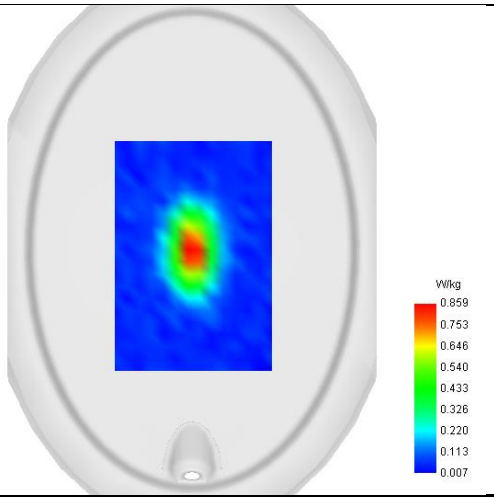
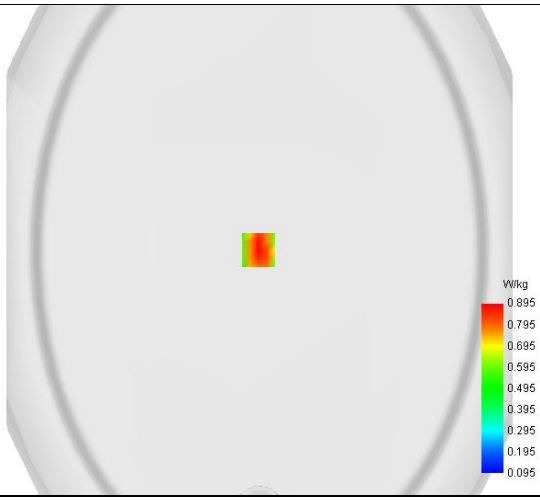


System Performance Check Data (835MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-04-22

Experimental conditions.

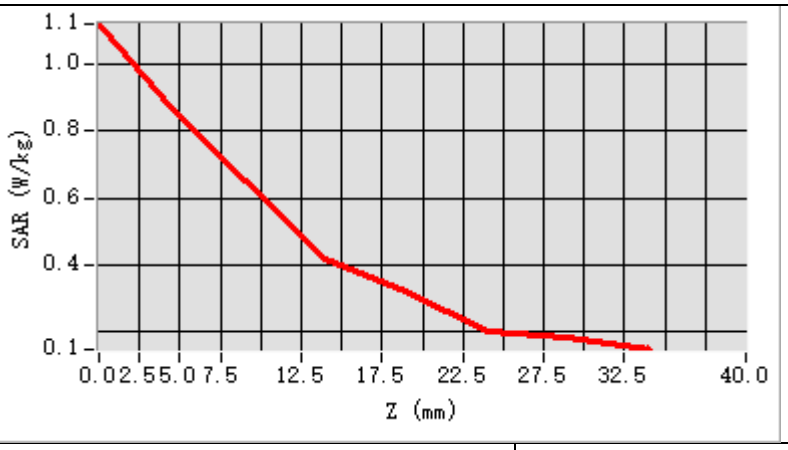
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.32
Conductivity (S/m)	0.92
Probe	SN 04/22 EPGO364
ConvF	1.72
Crest factor:	1:1

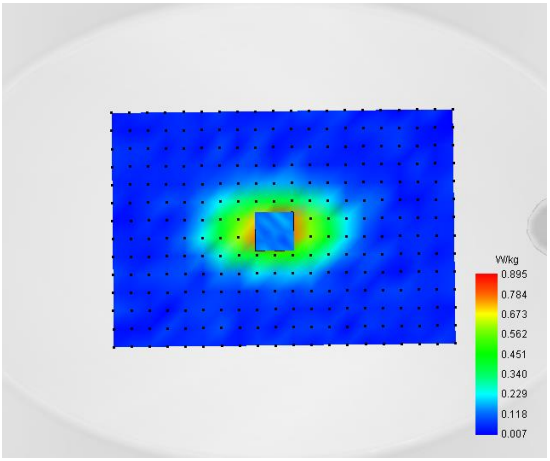
SURFACE SAR	VOLUME SAR
	

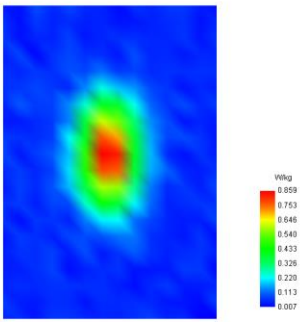
Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.644
SAR 1g (W/Kg)	0.987

Z Axis Scan


1.1
1.0
0.8
0.6
0.4
0.1
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)


W/kg
0.895
0.784
0.673
0.562
0.451
0.340
0.229
0.118
0.007

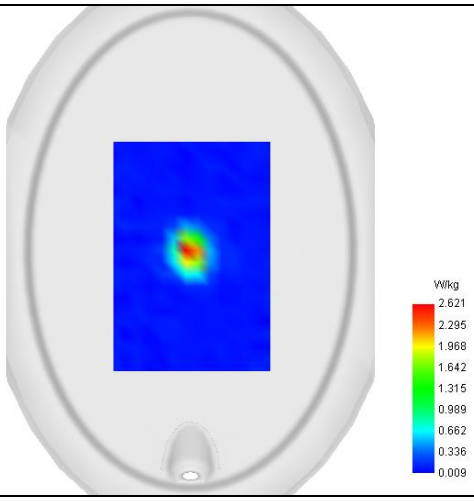
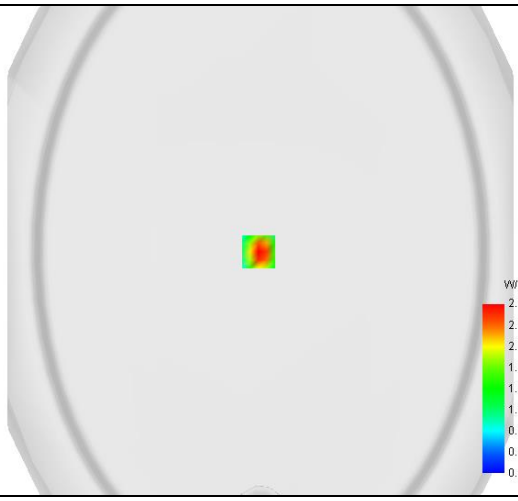


System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement:2025-04-25

Experimental conditions.

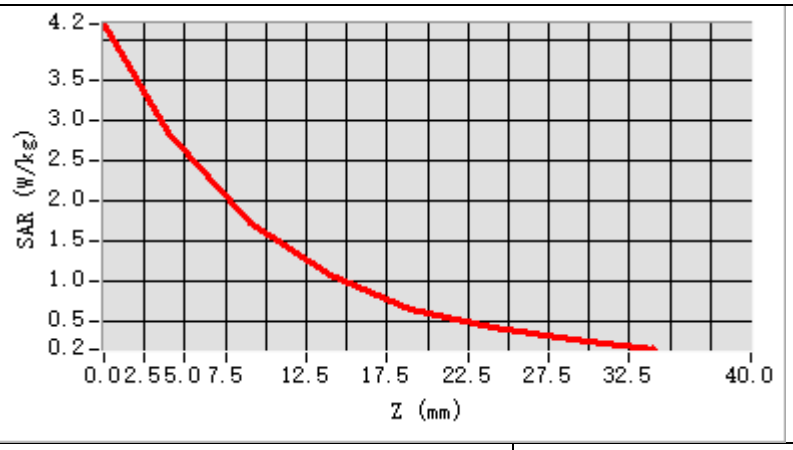
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.73
Conductivity (S/m)	1.39
Probe	SN 04/22 EPGO364
ConvF	1.92
Crest factor:	1:1

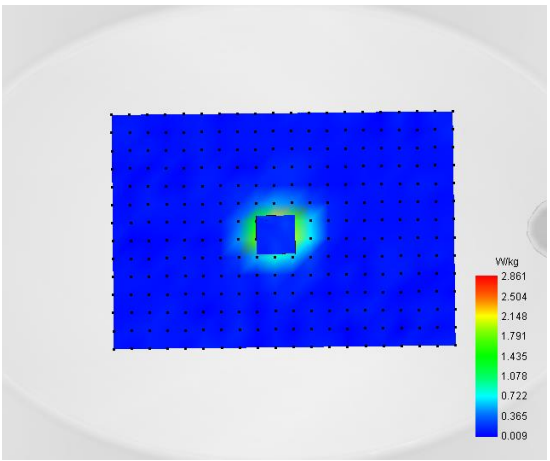
SURFACE	VOLUME SAR
	

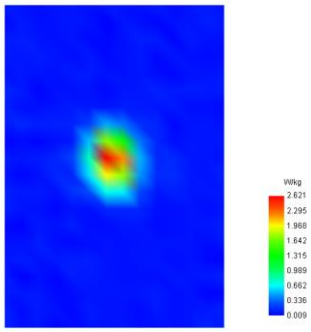
Maximum location: X=-2.00, Y=1.00 ; SAR Peak: 4.31 W/kg

SAR 10g (W/Kg)	2.089
SAR 1g (W/Kg)	3.915

Z Axis Scan


SAR (W/kg)
4.2
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.2
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)


W/kg
2.861
2.504
2.148
1.791
1.435
1.078
0.722
0.365
0.009

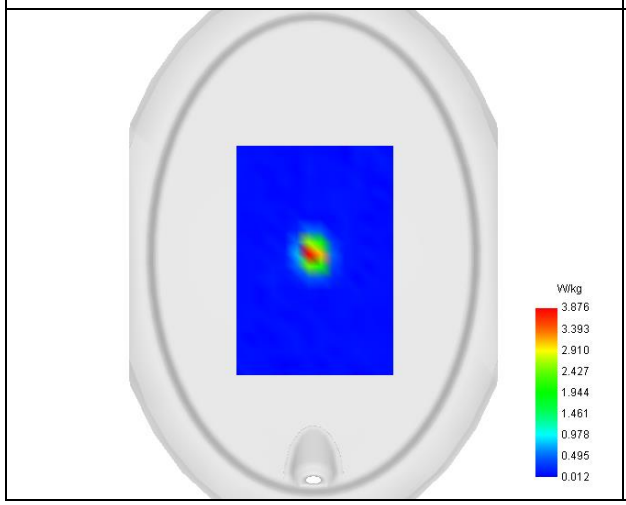
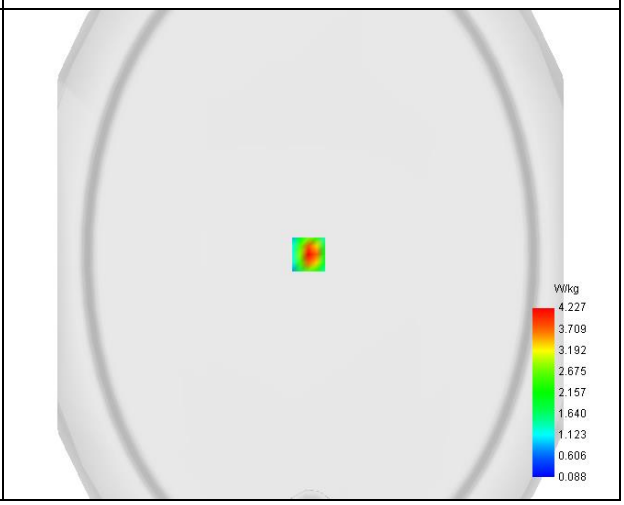

W/kg
2.621
2.295
1.968
1.642
1.315
0.989
0.662
0.336
0.009

System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement:2025-04-24

Experimental conditions.

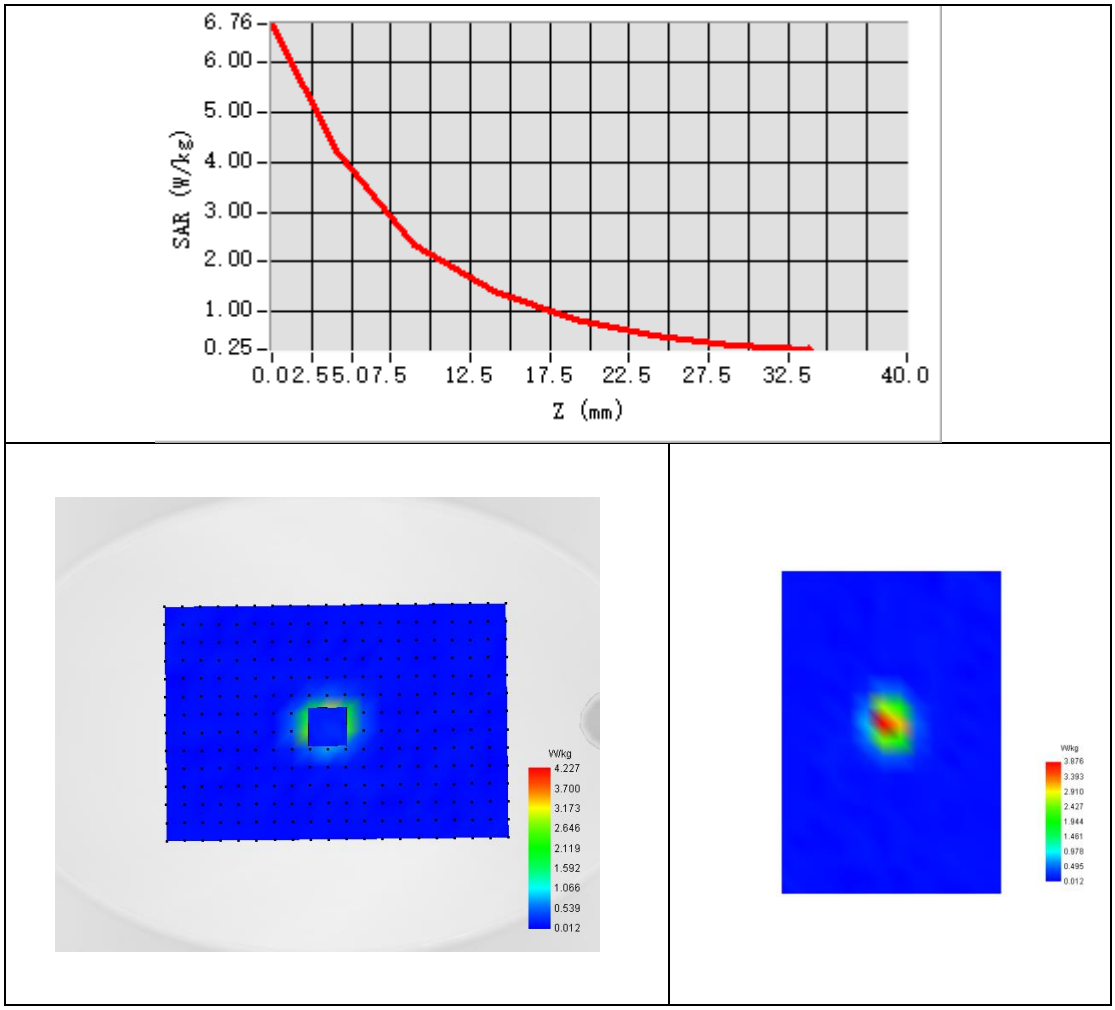
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.25
Conductivity (S/m)	1.41
Probe	SN 04/22 EPGO364
ConvF	2.20
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=-2.00, Y=0.00 ; SAR Peak: 6.85 W/kg

SAR 10g (W/Kg)	2.069
SAR 1g (W/Kg)	4.064

Z Axis Scan

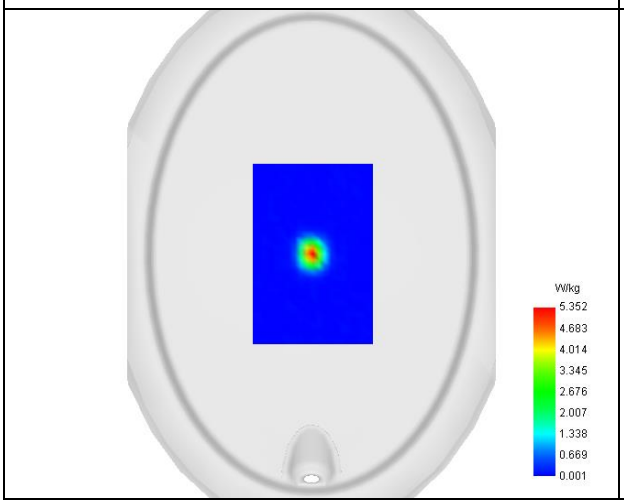
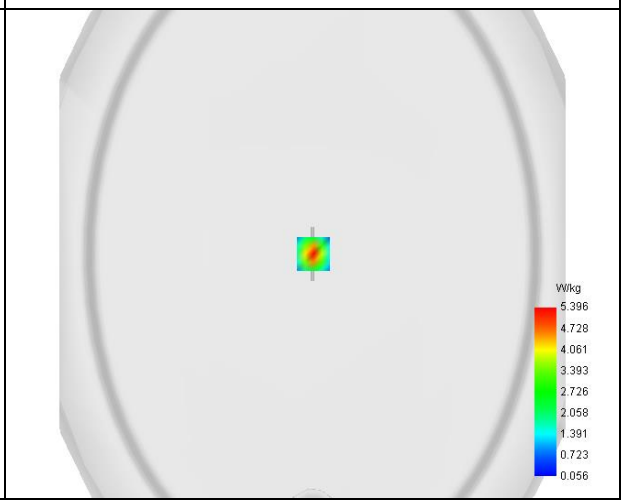

6.76
6.00
5.00
4.00
3.00
2.00
1.00
0.25
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
4.227
3.700
3.173
2.646
2.119
1.592
1.066
0.539
0.012
W/kg
3.876
3.393
2.910
2.427
1.944
1.461
0.978
0.495
0.012

System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement:2025-03-28

Experimental conditions.

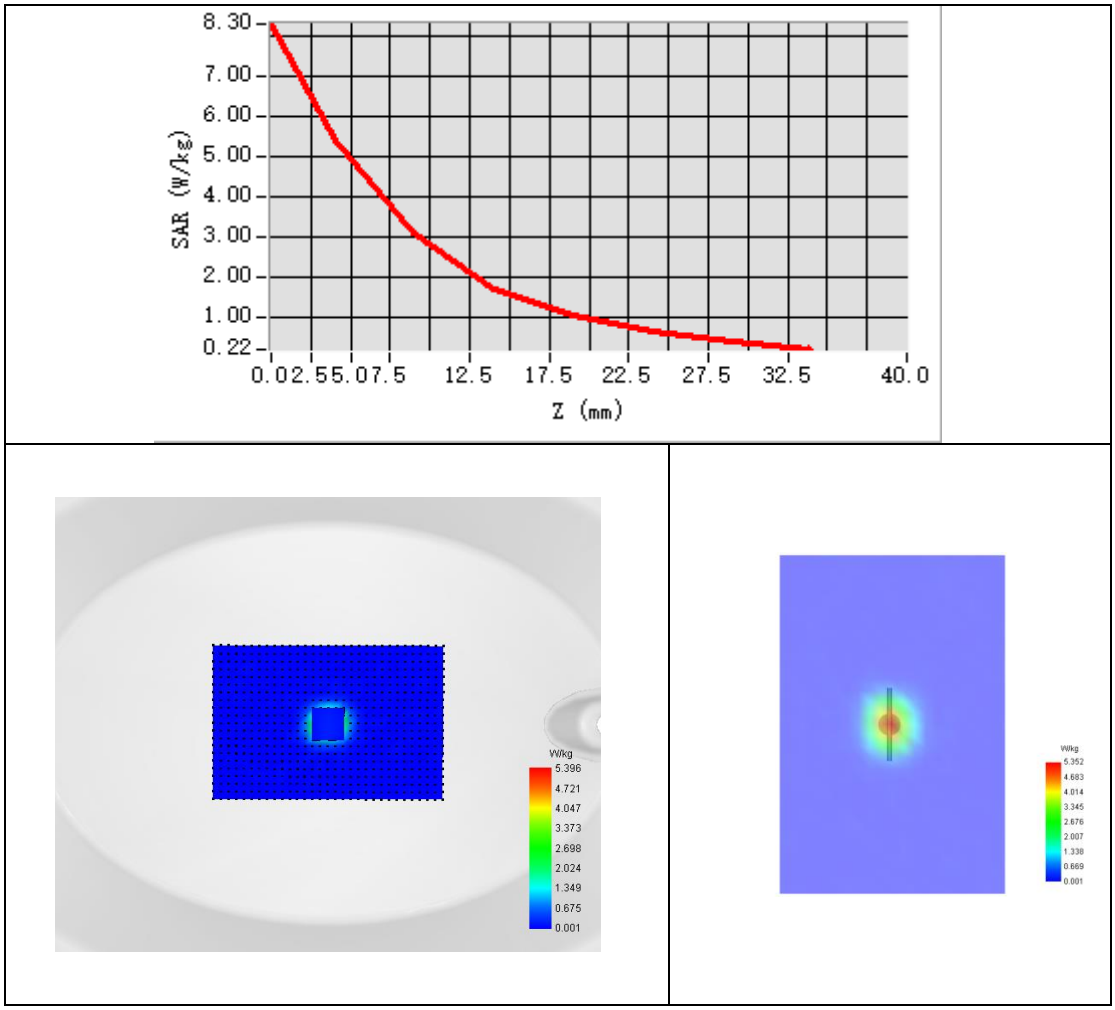
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	39.70
Conductivity (S/m)	1.77
Probe	SN 04/22 EPGO364
ConvF	2.30
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=1.00, Y=0.00 ; SAR Peak: 8.26 W/kg

SAR 10g (W/Kg)	2.378
SAR 1g (W/Kg)	5.463

Z Axis Scan

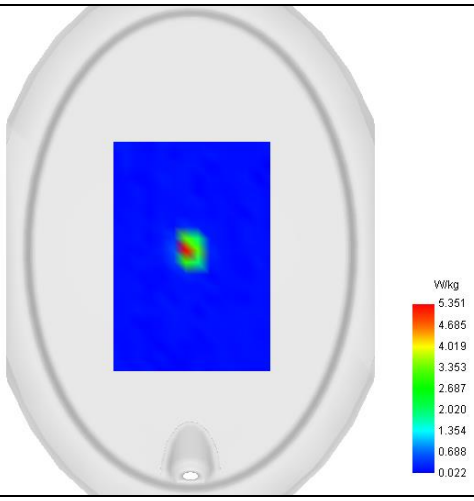
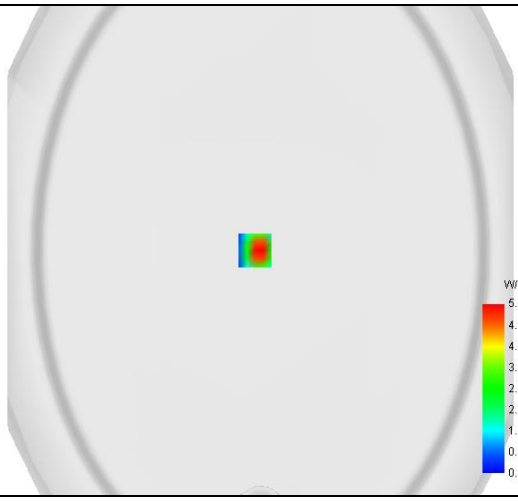

8.30
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.22
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
5.396
4.721
4.047
3.373
2.698
2.024
1.349
0.675
0.001
W/kg
5.352
4.683
4.014
3.345
2.676
2.007
1.338
0.669
0.001

System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement:2025-04-05

Experimental conditions.

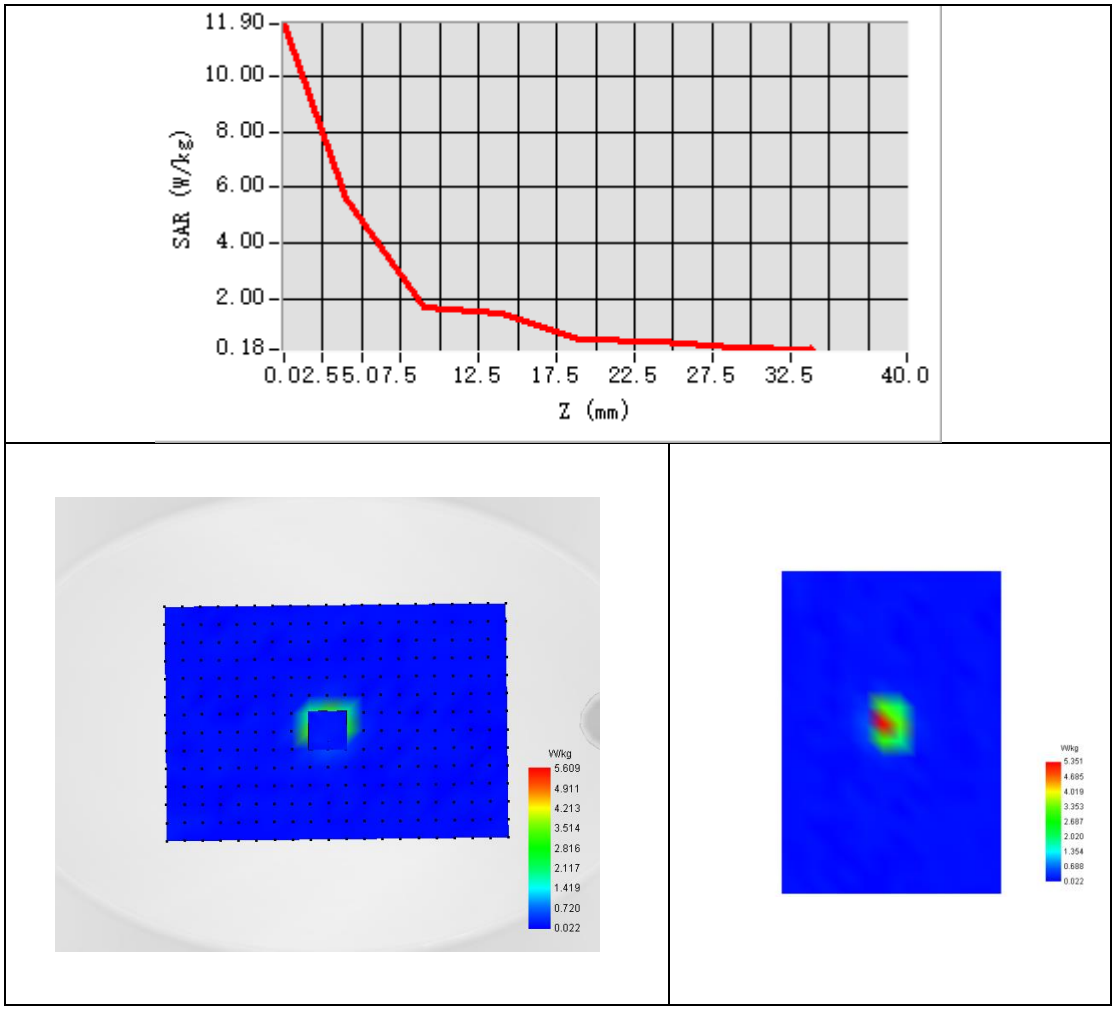
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.63
Conductivity (S/m)	1.97
Probe	SN 04/22 EPGO364
ConvF	2.37
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=-5.00, Y=0.00 ; SAR Peak: 10.29 W/kg

SAR 10g (W/Kg)	2.378
SAR 1g (W/Kg)	5.635

Z Axis Scan

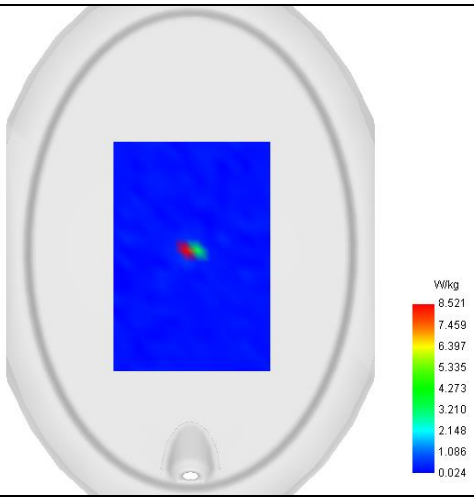
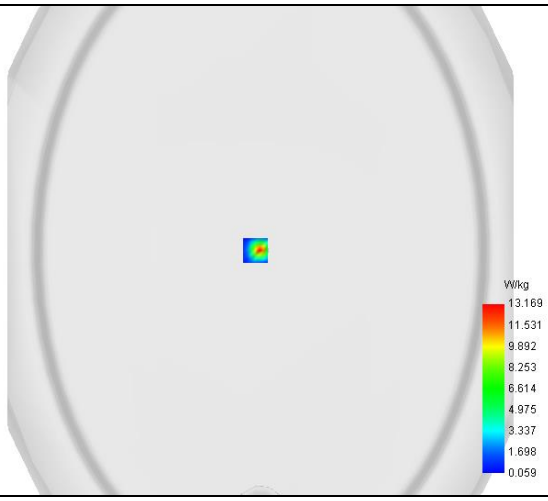

11.90
10.00
8.00
6.00
4.00
2.00
0.18
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
5.609
4.911
4.213
3.514
2.816
2.117
1.419
0.720
0.022
W/kg
5.351
4.685
4.019
3.353
2.687
2.020
1.354
0.688
0.022

System Performance Check Data (3700MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=4mm, dy=4mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2025-04-25

Experimental conditions.

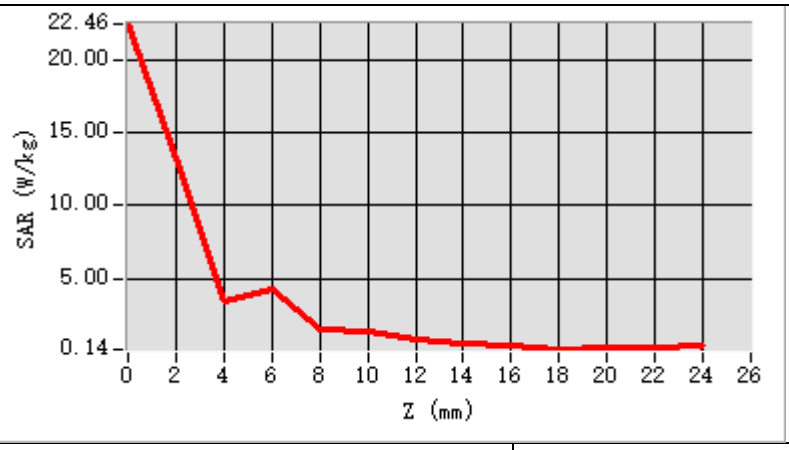
Phantom	Validation plane
Device Position	Dipole
Band	CW3700
Channels	Middle
Signal	CW
Frequency (MHz)	3700.000
Relative permittivity	38.14
Conductivity (S/m)	3.10
Probe	SN 04/22 EPGO364
ConvF	1.81
Crest factor:	1:1

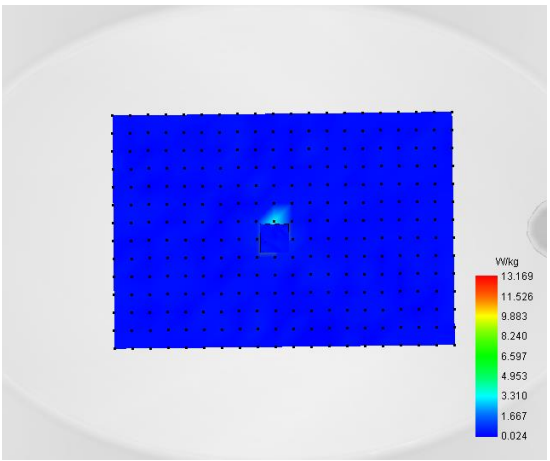
SURFACE	VOLUME SAR
	

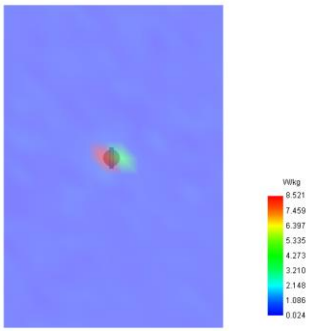
Maximum location: X=-5.00, Y=0.00 ; SAR Peak: 22.10 W/kg

SAR 10g (W/Kg)	2.535
SAR 1g (W/Kg)	6.879

Z Axis Scan


22.46
20.00
15.00
10.00
5.00
0.14
SAR (W/kg)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
Z (mm)


W/kg
13.169
11.526
9.883
8.240
6.597
4.953
3.310
1.667
0.024

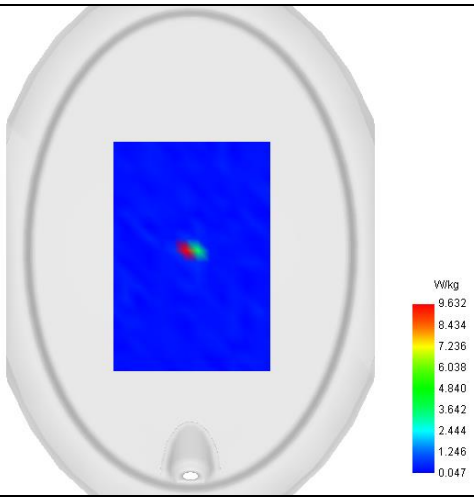
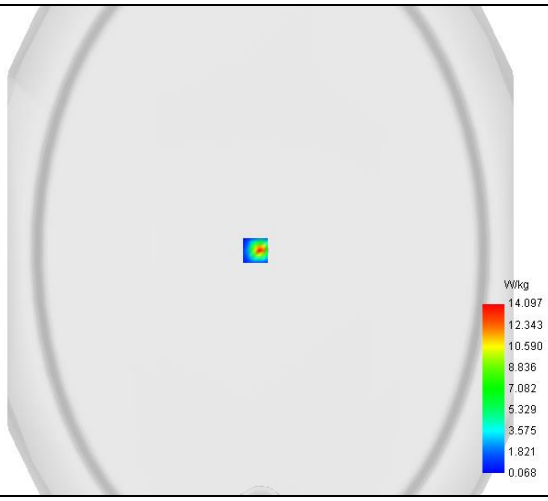

W/kg
8.521
7.459
6.397
5.335
4.273
3.210
2.148
1.086
0.024

System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=4mm, dy=4mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-04-27

Experimental conditions.

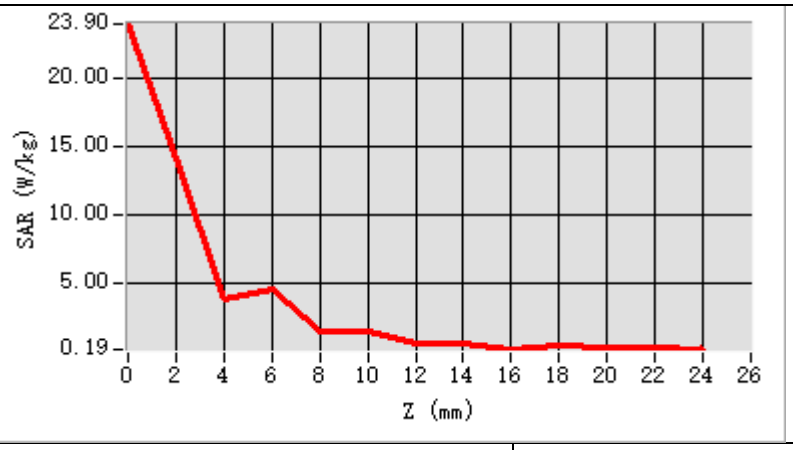
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	35.99
Conductivity (S/m)	4.64
Probe	SN 04/22 EPGO364
ConvF	1.99
Crest factor:	1:1

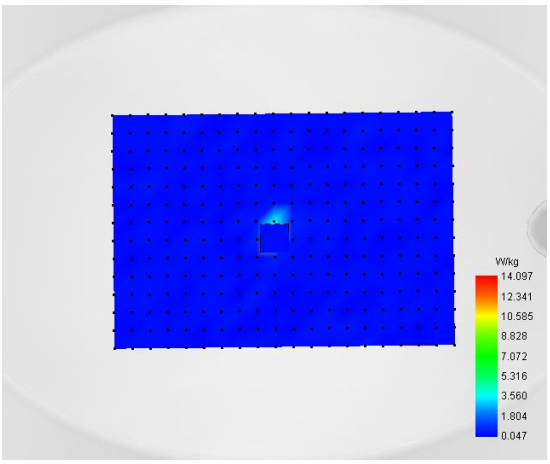
SURFACE	VOLUME SAR
	

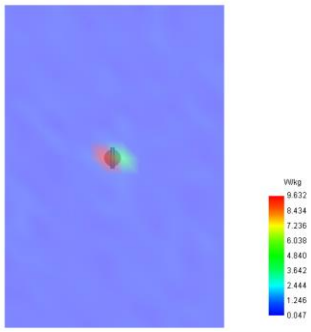
Maximum location: X=-5.00, Y=0.00 ; SAR Peak: 23.69 W/kg

SAR 10g (W/Kg)	2.314
SAR 1g (W/Kg)	8.203

Z Axis Scan


23.90
20.00
15.00
10.00
5.00
0.19
SAR (W/kg)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
Z (mm)


W/kg
14.097
12.341
10.585
8.828
7.072
5.316
3.560
1.804
0.047

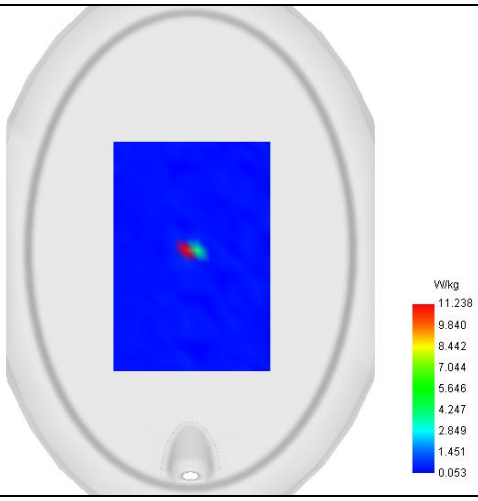
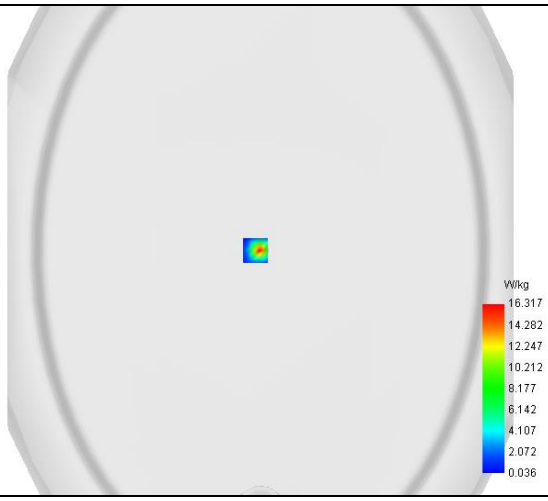


System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=4mm, dy=4mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-04-27

Experimental conditions.

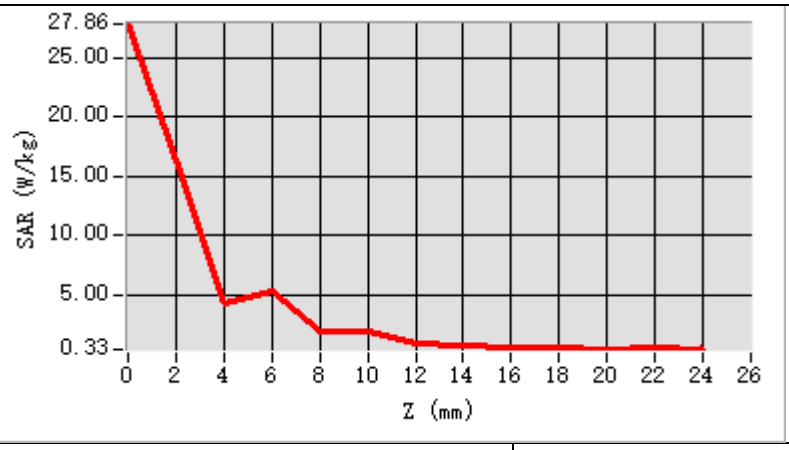
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.34
Conductivity (S/m)	4.88
Probe	SN 04/22 EPGO364
ConvF	1.87
Crest factor:	1:1

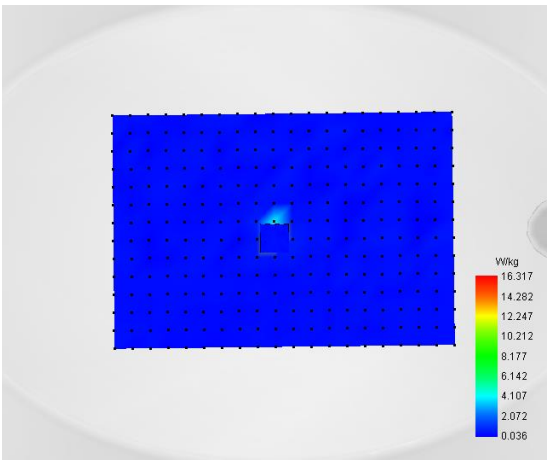
SURFACE	VOLUME SAR
	

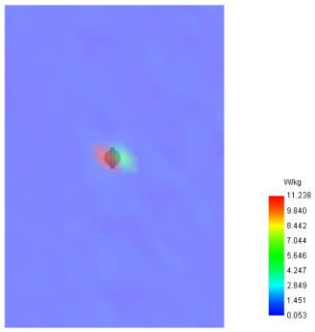
Maximum location: X=-5.00, Y=0.00 ; SAR Peak: 26.67 W/kg

SAR 10g (W/Kg)	2.381
SAR 1g (W/Kg)	8.506

Z Axis Scan


27.86
25.00
20.00
15.00
10.00
5.00
0.33
SAR (W/kg)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
Z (mm)


W/kg
16.317
14.282
12.247
10.212
8.177
6.142
4.107
2.072
0.036

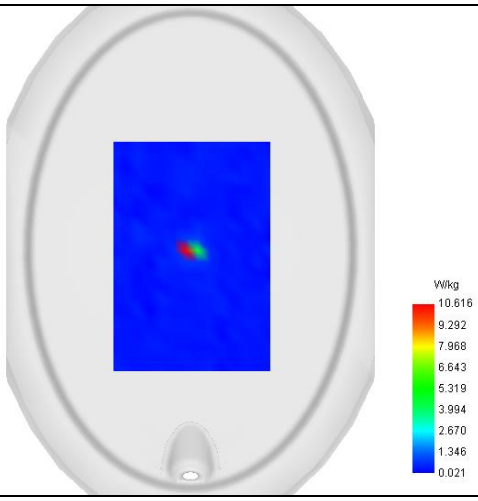
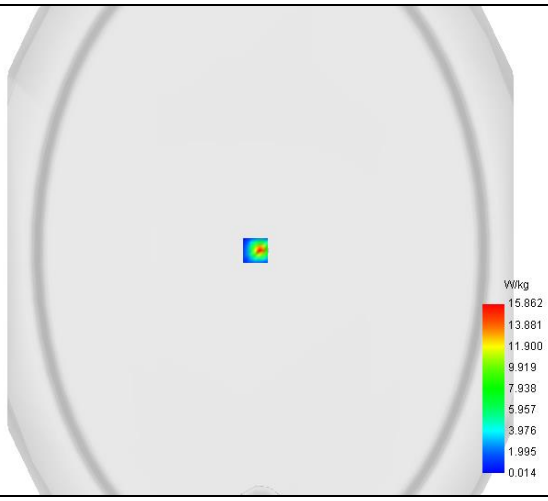

W/kg
11.238
9.840
8.442
7.044
5.646
4.247
2.849
1.451
0.053

System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=4mm, dy=4mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-04-28

Experimental conditions.

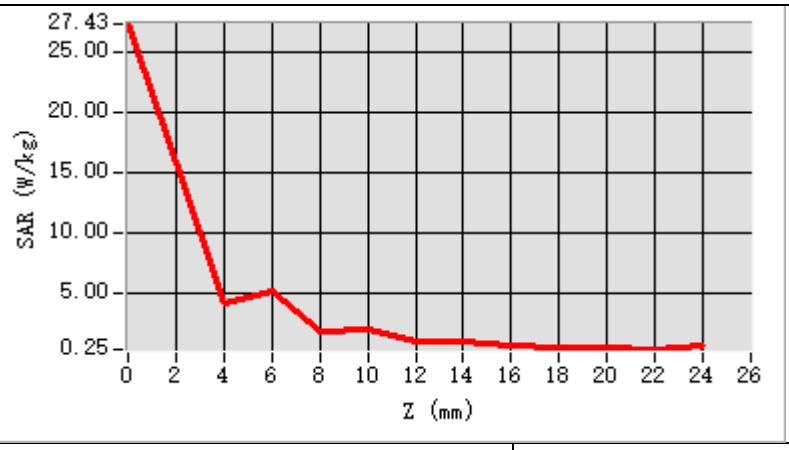
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	36.49
Conductivity (S/m)	5.11
Probe	SN 04/22 EPGO364
ConvF	1.87
Crest factor:	1:1

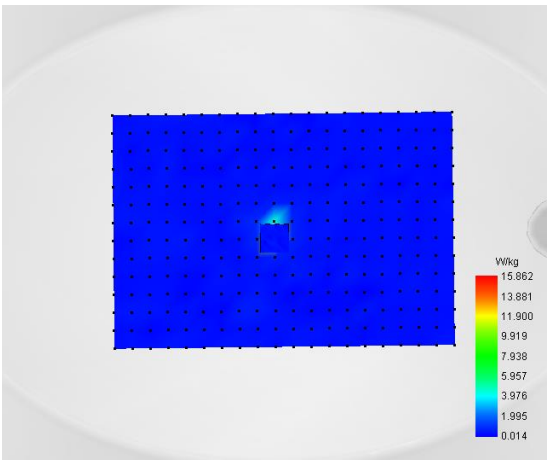
SURFACE	VOLUME SAR
	

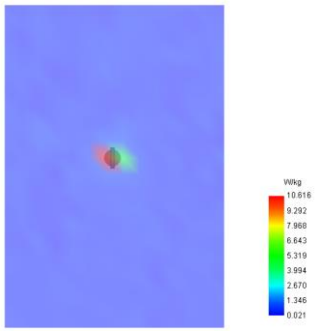
Maximum location: X=-5.00, Y=0.00 ; SAR Peak: 27.25 W/kg

SAR 10g (W/Kg)	2.308
SAR 1g (W/Kg)	8.272

Z Axis Scan


27.43
25.00
20.00
15.00
10.00
5.00
0.25
SAR (W/kg)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
Z (mm)


W/kg
15.862
13.881
11.900
9.919
7.938
5.957
3.976
1.995
0.014

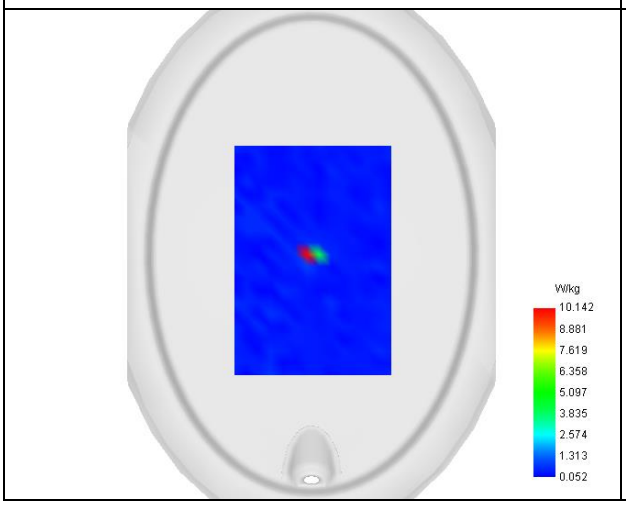
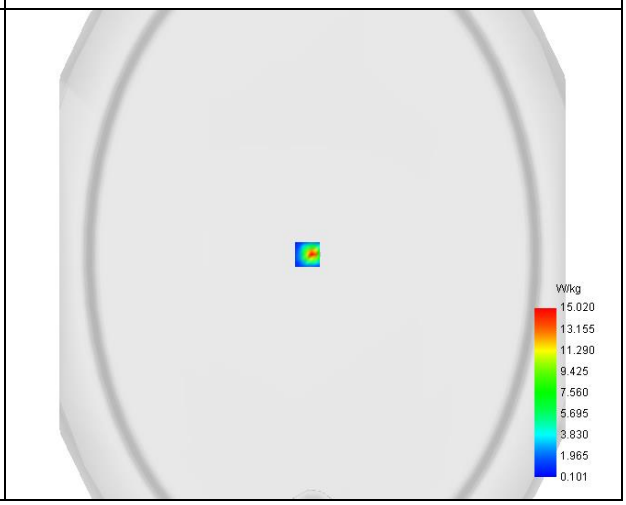

W/kg
10.616
9.292
7.968
6.643
5.319
3.994
2.670
1.346
0.021

System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=4mm, dy=4mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement:2025-04-28

Experimental conditions.

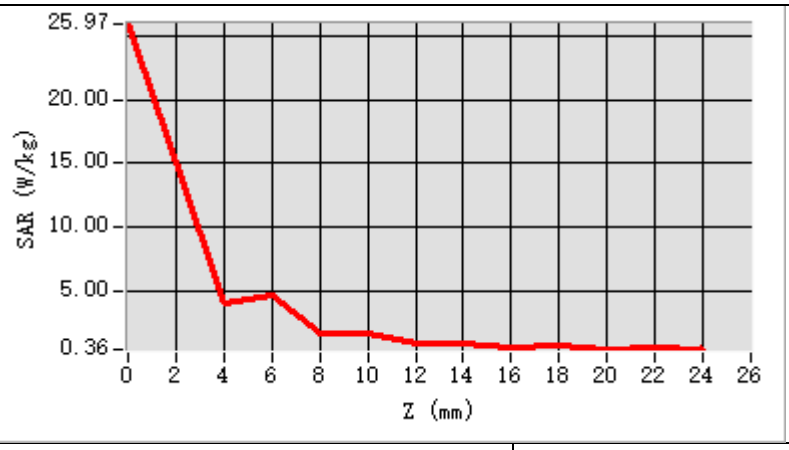
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	36.34
Conductivity (S/m)	5.31
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1

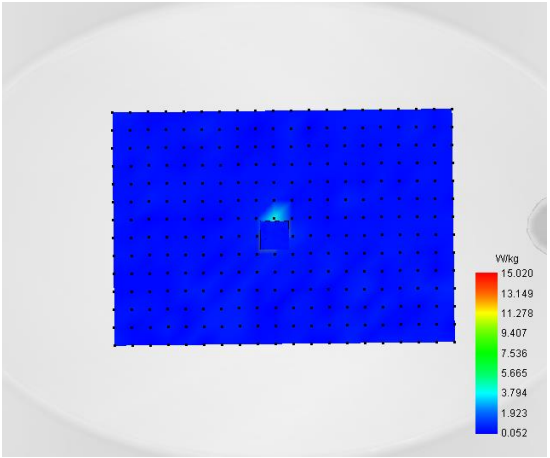
SURFACE	VOLUME SAR
	

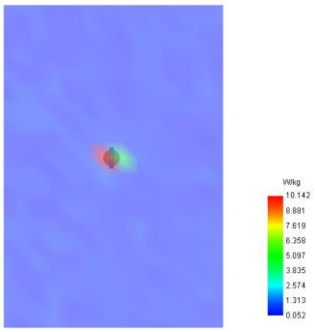
Maximum location: X=-5.00, Y=0.00 ; SAR Peak: 24.18 W/kg

SAR 10g (W/Kg)	2.395
SAR 1g (W/Kg)	8.309

Z Axis Scan


25.97
20.00
15.00
10.00
5.00
0.36
SAR (W/kg)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
Z (mm)


W/kg
15.020
13.149
11.278
9.407
7.536
5.665
3.794
1.923
0.052

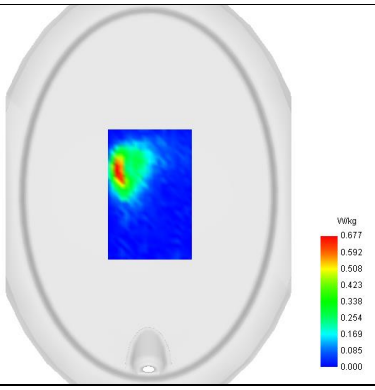
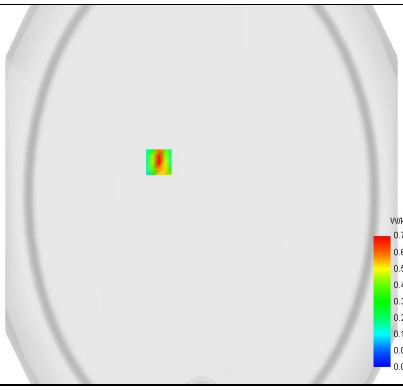
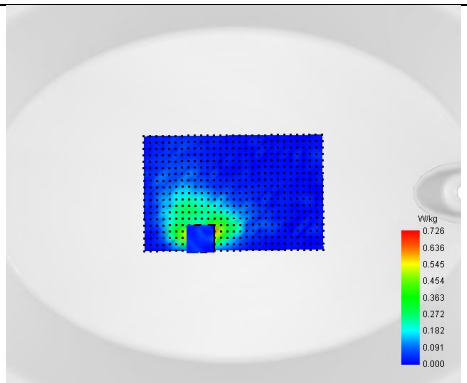
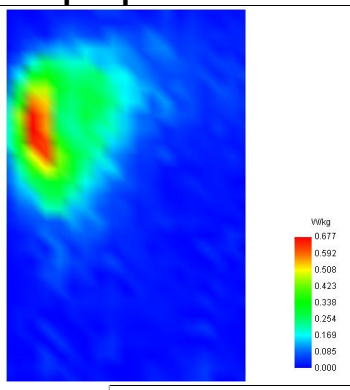
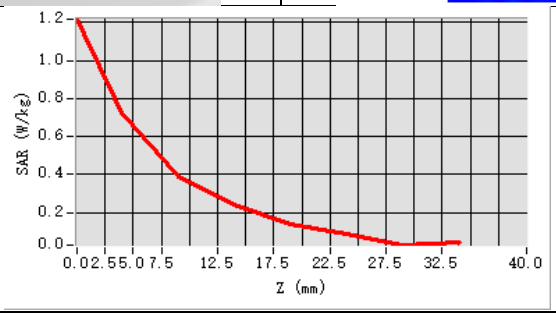

W/kg
10.142
8.881
7.619
6.358
5.097
3.835
2.574
1.313
0.052

Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-04-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	848.8
SAR 10g (W/Kg)	0.351
SAR 1g (W/Kg)	0.682
ConvF	1.72
Relative permittivity	41.32
Conductivity (S/m)	0.92

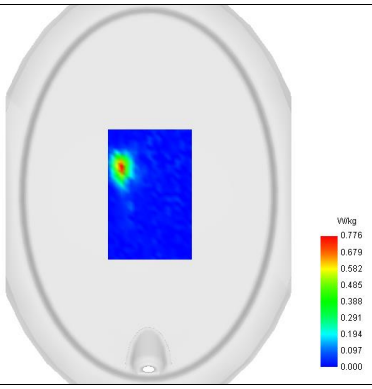
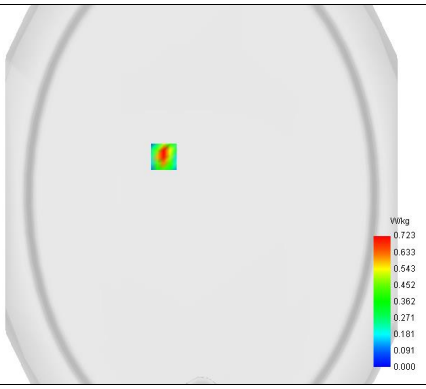
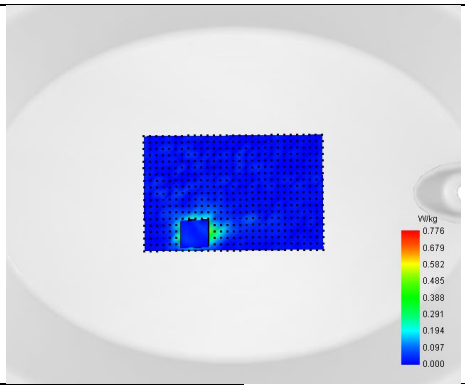
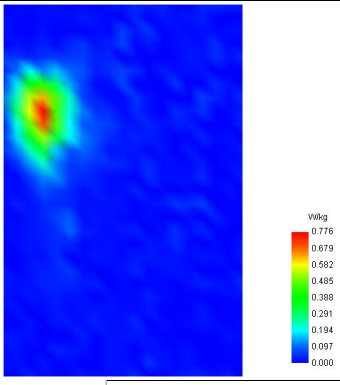
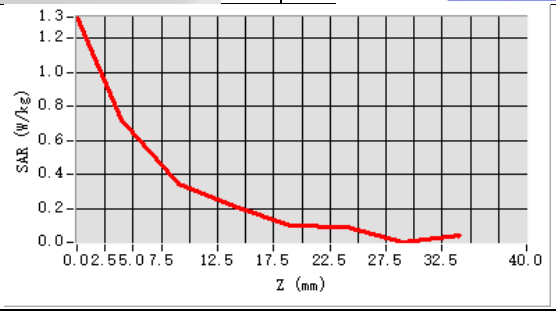
Maximum location: X=-53.00, Y=40.00 ; SAR Peak: 1.21 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 2:

Test Date	2025-04-25
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1850.2
SAR 10g (W/Kg)	0.356
SAR 1g (W/Kg)	0.667
ConvF	1.92
Relative permittivity	40.73
Conductivity (S/m)	1.39

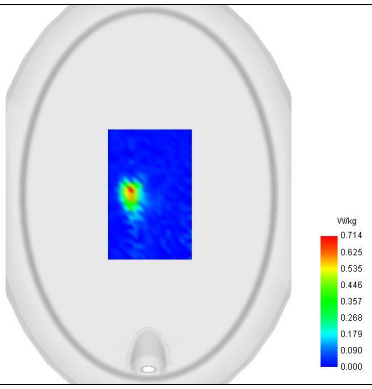
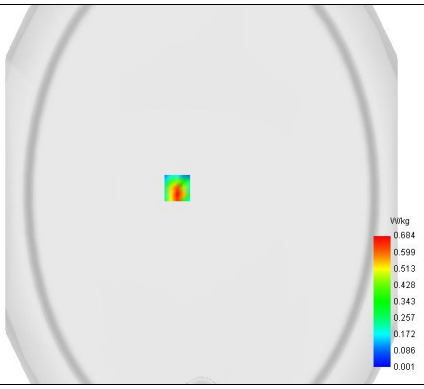
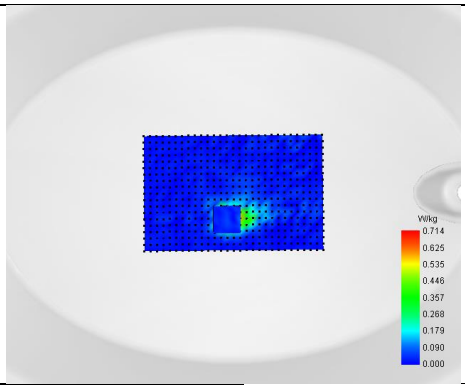
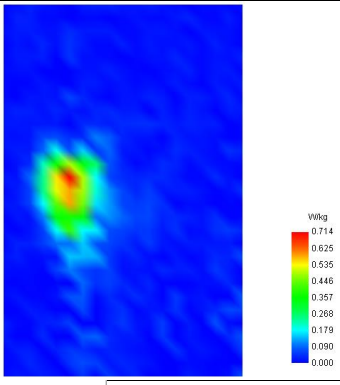
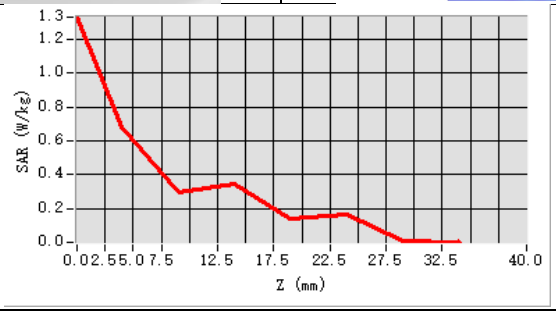
Maximum location: X=-47.00, Y=47.00 ; SAR Peak: 1.02 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 3:

Test Date	2025-04-24
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 2 (1900)
Signal	HSDPA
Frequency	1907.6
SAR 10g (W/Kg)	0.309
SAR 1g (W/Kg)	0.627
ConvF	2.20
Relative permittivity	40.25
Conductivity (S/m)	1.41

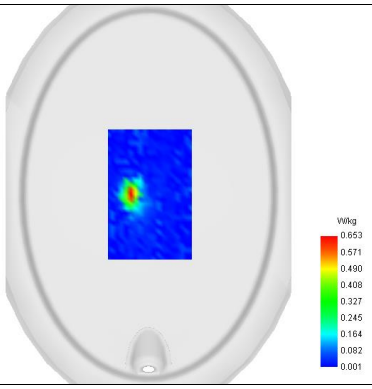
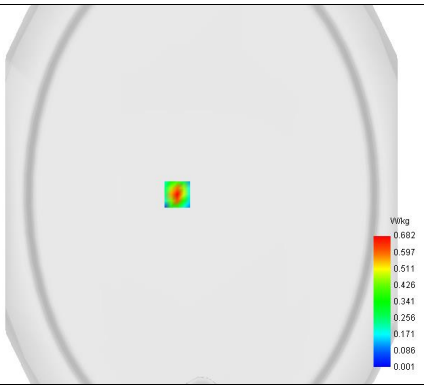
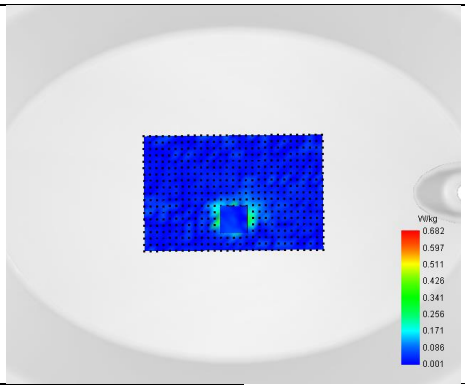
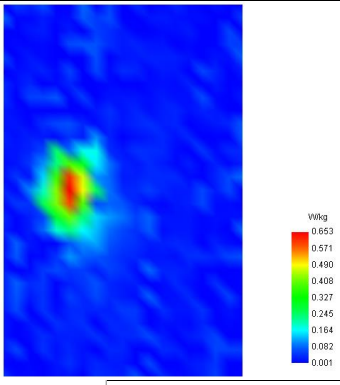
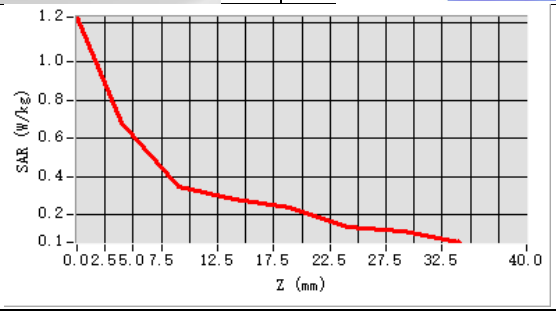
Maximum location: X=-30.00, Y=8.00 ; SAR Peak: 1.10 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 4:

Test Date	2025-04-25
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 4 (1700)
Signal	HSDPA
Frequency	1712.6
SAR 10g (W/Kg)	0.345
SAR 1g (W/Kg)	0.684
ConvF	1.92
Relative permittivity	40.73
Conductivity (S/m)	1.39

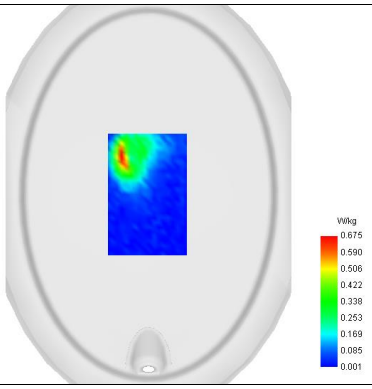
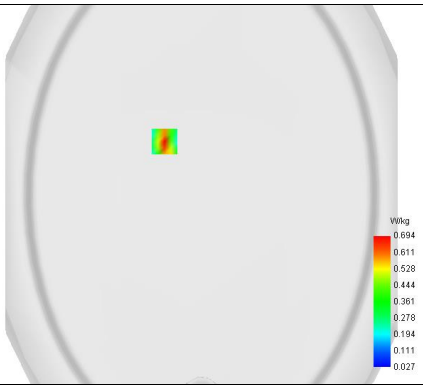
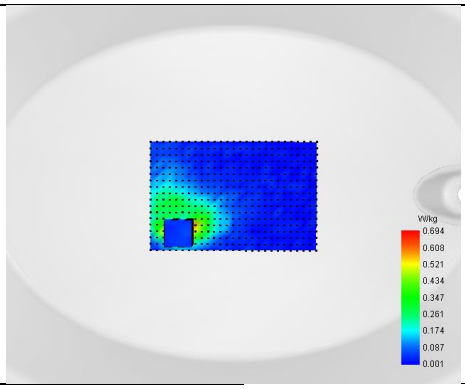
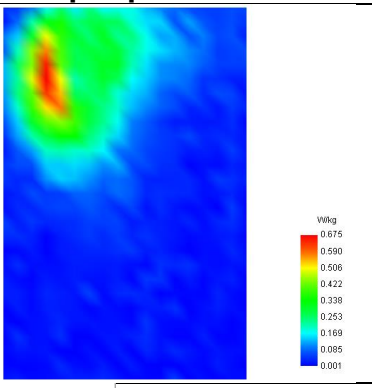
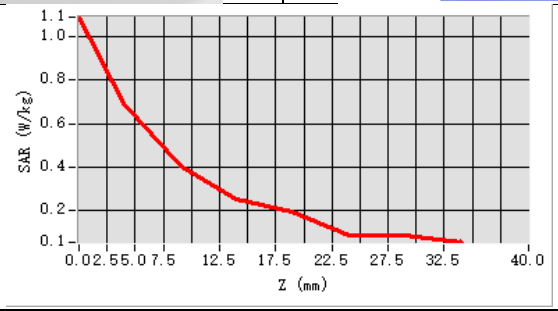
Maximum location: X=-30.00, Y=0.00 ; SAR Peak: 1.25 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 5:

Test Date	2025-04-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	826.4
SAR 10g (W/Kg)	0.359
SAR 1g (W/Kg)	0.660
ConvF	1.72
Relative permittivity	41.32
Conductivity (S/m)	0.92

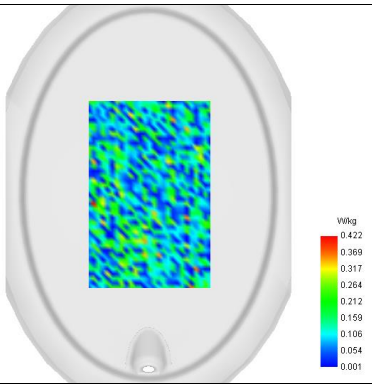
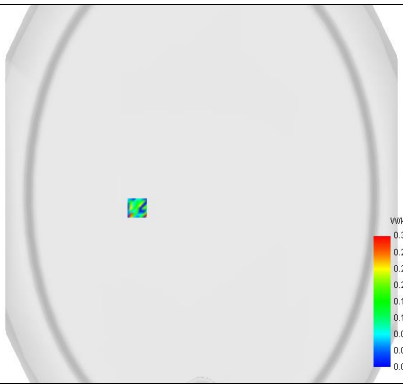
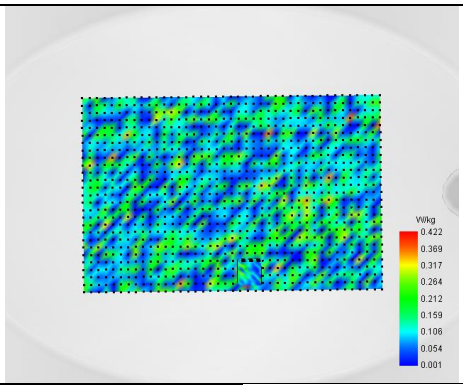
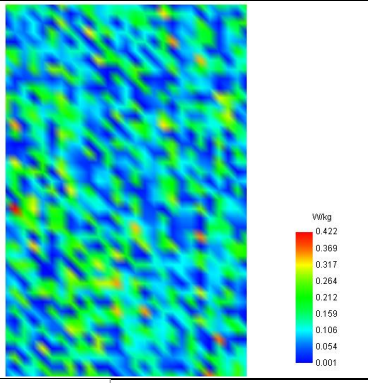
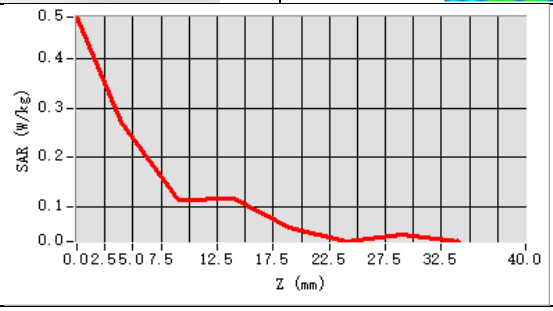
Maximum location: X=-46.00, Y=66.00 ; SAR Peak: 1.11 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 6:

Test Date	2025-03-28
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM ANT 1
Signal	IEEE 802.11b
Frequency	2412
SAR 10g (W/Kg)	0.121
SAR 1g (W/Kg)	0.279
ConvF	2.33
Relative permittivity	39.70
Conductivity (S/m)	1.77

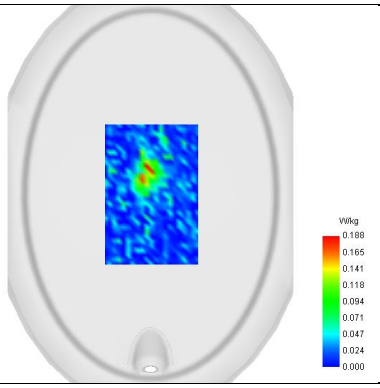
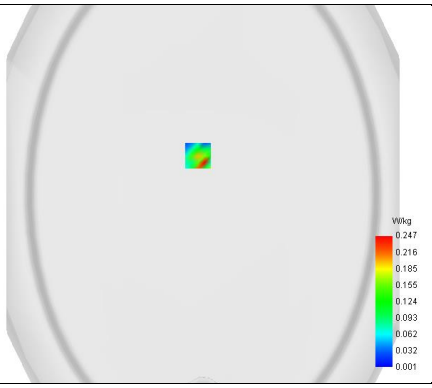
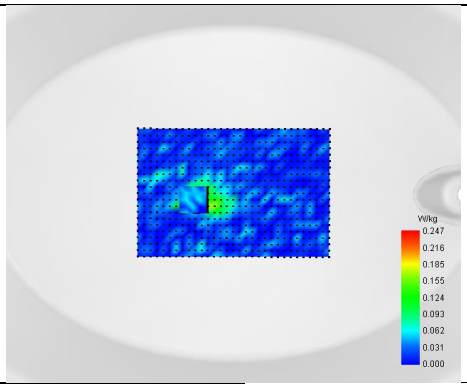
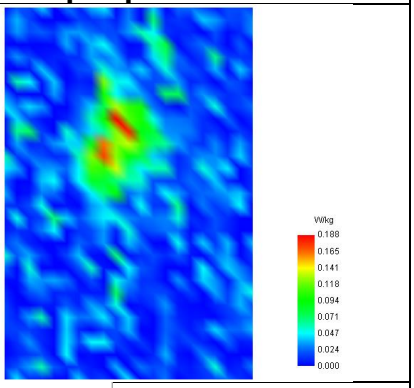
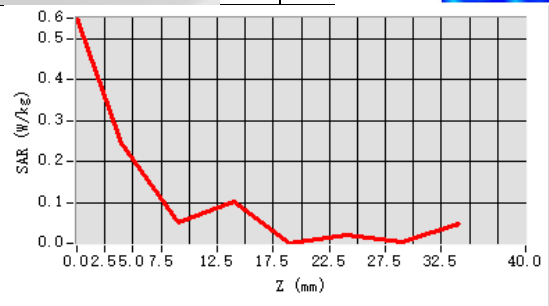
Maximum location: X=-15.00, Y=-97.00 ; SAR Peak: 0.63 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 7:

Test Date	2025-03-28
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	ISM ANT 2
Signal	IEEE 802.11b
Frequency	2412
SAR 10g (W/Kg)	0.093
SAR 1g (W/Kg)	0.213
ConvF	2.33
Relative permittivity	39.70
Conductivity (S/m)	1.77

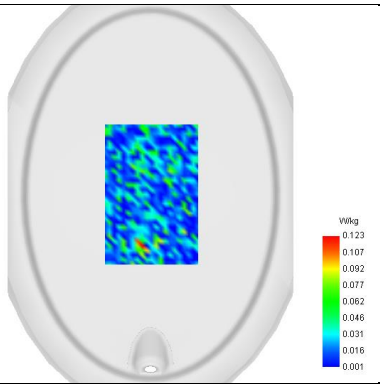
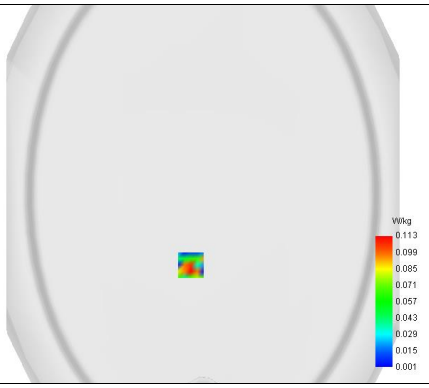
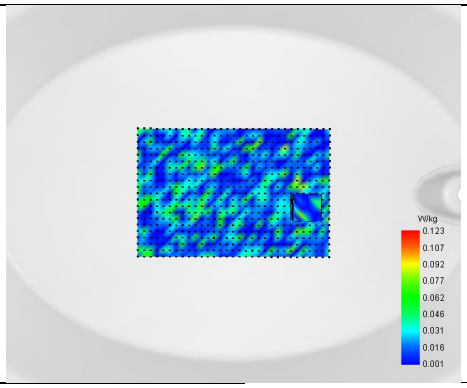
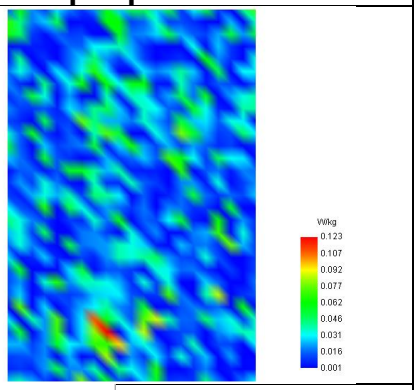
Maximum location: X=-6.00, Y=48.00 ; SAR Peak: 0.45 W/kg

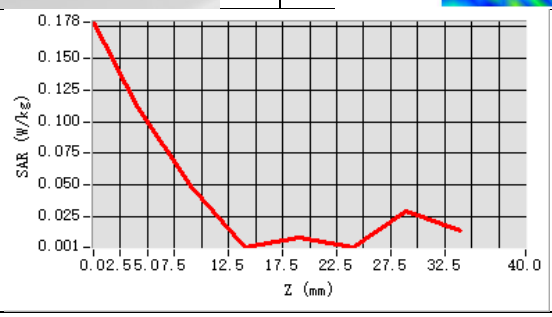
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 8:

Test Date	2025-03-28
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM MIMO 1
Signal	IEEE 802.11ax
Frequency	2412
SAR 10g (W/Kg)	0.053
SAR 1g (W/Kg)	0.126
ConvF	2.33
Relative permittivity	39.70
Conductivity (S/m)	1.77

Maximum location: X=-15.00, Y=-88.00 ; SAR Peak: 0.32 W/kg

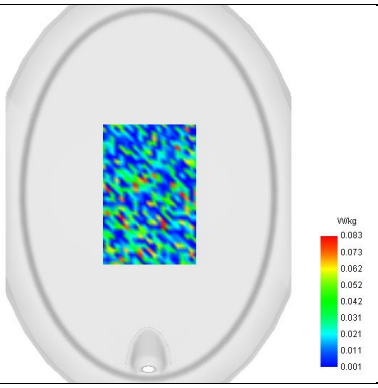
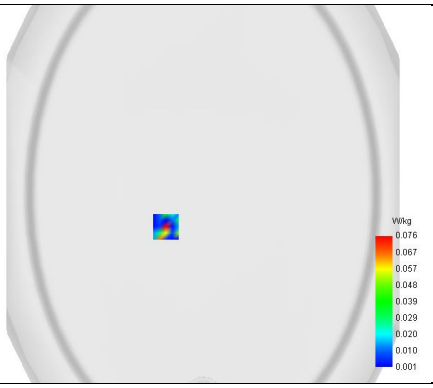
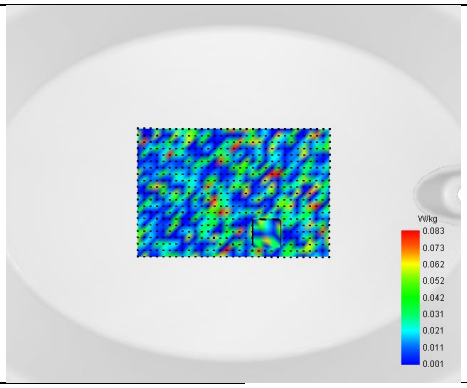
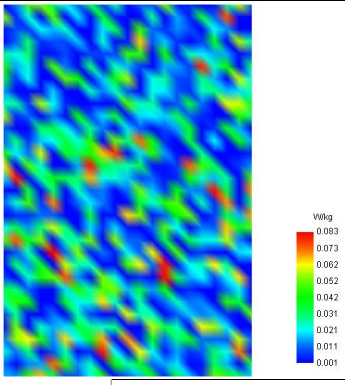
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	

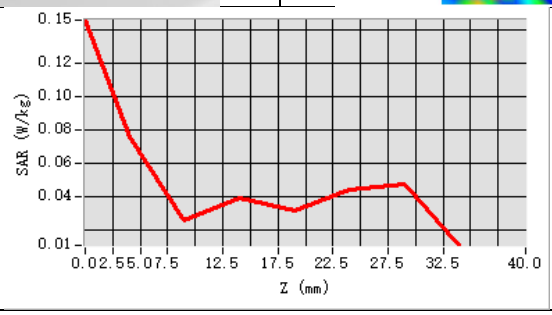


Plot 9:

Test Date	2025-03-28
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM MIMO 2
Signal	IEEE 802.11ax
Frequency	2412
SAR 10g (W/Kg)	0.019
SAR 1g (W/Kg)	0.058
ConvF	2.33
Relative permittivity	39.70
Conductivity (S/m)	1.77

Maximum location: X=-46.00, Y=-40.00 ; SAR Peak: 0.16 W/kg

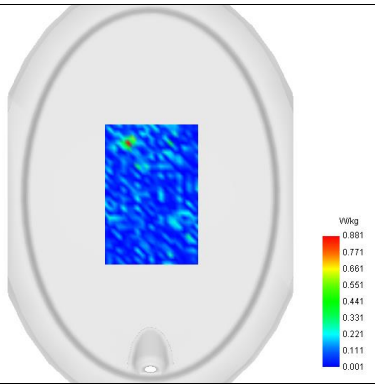
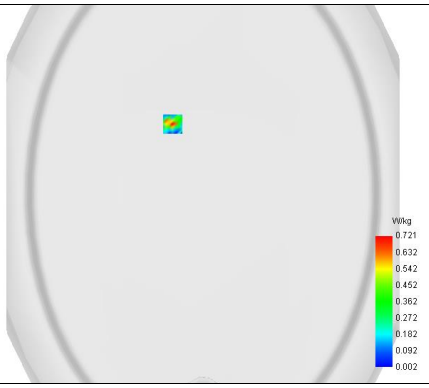
SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	



Plot 10:

Test Date	2025-04-27
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-1 ANT 1
Signal	IEEE 802.11a
Frequency	5240
SAR 10g (W/Kg)	0.129
SAR 1g (W/Kg)	0.353
ConvF	1.99
Relative permittivity	35.99
Conductivity (S/m)	4.64

Maximum location: X=-38.00, Y=88.00 ; SAR Peak: 1.95 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**