		1745	16.07	15.36	13.94
		1710.7	16.19	15.42	13.90
	3RB-High	1779.3	16.07	15.14	13.93
		1745	16.09	15.23	13.69
		1710.7	16.14	15.24	13.78
	3RB-Middle	1779.3	16.09	15.22	13.89
		1745	16.14	14.78	13.73
		1710.7	16.18	15.28	13.79
	3RB-Low	1779.3	16.06	15.30	13.82
		1745	16.14	15.28	13.53
		1710.7	16.16	15.31	13.77
	6RB	1779.3	15.18	14.26	12.75
		1745	15.28	14.31	12.70
		1710.7	15.28	14.44	12.80
3MHz	1RB-High	1778.5	16.08	15.53	14.94
		1745	16.22	15.48	14.83
		1711.5	16.20	15.47	15.03
	1RB-Middle	1778.5	16.06	15.35	14.58
		1745	16.08	15.42	14.70
		1711.5	16.12	15.50	14.78
	1RB-Low	1778.5	16.19	15.57	15.00
		1745	16.12	15.58	14.91
		1711.5	16.24	15.65	15.05
	8RB-High	1778.5	15.24	14.37	13.91
		1745	15.33	14.47	13.83
		1711.5	15.34	14.45	14.04
	8RB-Middle	1778.5	15.39	14.43	13.77
		1745	15.40	14.41	13.88
		1711.5	15.48	14.53	13.89
	8RB-Low	1778.5	15.33	14.39	13.82
		1745	15.31	14.38	13.89
		1711.5	15.45	14.42	13.93
	15RB	1778.5	15.34	14.27	13.75
		1745	15.30	14.29	13.78
		1711.5	15.38	14.39	13.96
5MHz	1RB-High	1777.5	16.23	15.53	14.85
		1745	16.22	15.44	14.95
		1712.5	16.23	15.59	15.15
	1RB-Middle	1777.5	16.11	15.35	14.83
		1745	15.97	15.44	14.71
		1712.5	16.14	15.33	14.86
	1RB-Low	1777.5	16.25	15.55	14.96
		1745	16.15	15.43	14.80
		1712.5	16.22	15.61	15.08
	12RB-High	1777.5	15.33	14.35	13.83
		1745	15.30	14.38	13.72
		1712.5	15.38	14.35	13.84
	12RB-Middle	1777.5	15.35	14.40	13.88
		1745	15.43	14.44	13.69
		1712.5	15.47	14.47	13.96
	12RB-Low	1777.5	15.34	14.31	13.82
		1745	15.25	14.25	13.81
		1712.5	15.39	14.49	13.85
	25RB	1777.5	15.32	14.27	13.97
		1745	15.35	14.35	13.92

		1712.5	15.39	14.38	13.97
10MHz	1RB-High	1775	16.00	15.37	14.82
		1745	16.15	15.33	14.54
		1715	16.14	15.45	14.66
	1RB-Middle	1775	16.24	15.39	14.93
		1745	16.13	15.42	14.92
		1715	16.10	15.47	14.99
	1RB-Low	1775	16.21	15.36	14.71
		1745	16.13	15.48	14.82
		1715	16.29	15.60	14.92
	25RB-High	1775	15.35	14.35	13.78
		1745	15.35	14.41	13.81
		1715	15.40	14.36	13.96
	25RB-Middle	1775	15.26	14.35	13.84
		1745	15.41	14.39	13.88
		1715	15.43	14.51	14.02
	25RB-Low	1775	15.25	14.33	13.83
		1745	15.25	14.30	13.83
		1715	15.36	14.49	14.05
	50RB	1775	15.26	14.34	13.73
		1745	15.35	14.42	13.80
		1715	15.41	14.41	13.99
15MHz	1RB-High	1772.5	16.01	15.33	13.76
		1745	16.01	15.31	13.62
		1717.5	16.03	15.25	13.92
	1RB-Middle	1772.5	15.93	15.41	13.82
		1745	16.01	15.38	13.77
		1717.5	16.04	15.51	13.79
	1RB-Low	1772.5	15.98	15.34	13.84
		1745	16.02	15.34	13.72
		1717.5	16.05	15.36	13.89
	36RB-High	1772.5	15.22	14.14	12.76
		1745	15.18	14.24	12.74
		1717.5	15.24	14.16	12.74
	36RB-Middle	1772.5	15.23	14.16	12.76
		1745	15.23	14.19	12.70
		1717.5	15.27	14.22	12.80
	36RB-Low	1772.5	15.18	14.10	12.72
		1745	15.12	14.07	12.67
		1717.5	15.33	14.27	12.83
	75RB	1772.5	15.25	14.19	12.67
		1745	15.23	14.19	12.71
		1717.5	15.32	14.28	12.69
20MHz	1RB-High	1770	16.06	15.37	14.84
		1745	15.98	15.40	14.62
		1720	16.05	15.40	14.73
	1RB-Middle	1770	16.05	15.45	14.76
		1745	16.06	15.40	14.72
		1720	16.38	15.35	14.66
	1RB-Low	1770	16.05	15.43	14.71
		1745	16.05	15.36	14.70
		1720	16.07	15.45	14.86
	50RB-High	1770	15.29	14.23	13.70
		1745	15.24	14.19	13.76
		1720	15.30	14.26	13.73

	50RB-Middle	1770	15.12	14.15	13.71
		1745	15.31	14.27	13.71
		1720	15.28	14.32	13.79
	50RB-Low	1770	15.25	14.19	13.64
		1745	15.15	14.19	13.65
		1720	15.23	14.27	13.75
	100RB	1770	15.22	14.13	13.64
		1745	15.26	14.20	13.76
		1720	15.28	14.30	13.78

LTE Band66 ANT0

Band 66					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High	1779.3	24.48	23.77	23.67
		1745	24.36	23.59	23.54
		1710.7	24.42	23.66	23.65
	1RB-Middle	1779.3	24.52	23.93	23.65
		1745	24.44	23.64	23.65
		1710.7	24.46	23.75	23.79
	1RB-Low	1779.3	24.40	23.66	23.82
		1745	24.41	23.72	23.72
		1710.7	24.38	23.75	23.83
	3RB-High	1779.3	24.44	23.53	23.57
		1745	24.38	23.52	23.58
		1710.7	24.47	23.51	23.56
	3RB-Middle	1779.3	24.45	23.57	23.58
		1745	24.53	23.52	23.55
		1710.7	24.48	23.61	23.59
	3RB-Low	1779.3	24.46	23.46	23.61
		1745	24.42	23.56	23.62
		1710.7	24.46	23.48	23.59
	6RB	1779.3	23.65	22.65	22.37
		1745	23.47	22.48	22.39
		1710.7	23.55	22.57	22.50
3MHz	1RB-High	1778.5	24.55	23.86	23.77
		1745	24.59	23.93	23.70
		1711.5	24.50	23.96	23.82
	1RB-Middle	1778.5	24.52	23.87	23.62
		1745	24.49	24.16	23.68
		1711.5	24.49	24.19	23.74
	1RB-Low	1778.5	24.61	23.96	23.68
		1745	24.52	23.93	23.71
		1711.5	24.62	23.95	23.77
	8RB-High	1778.5	23.73	22.63	22.65
		1745	23.62	22.60	22.64
		1711.5	23.64	22.76	22.73
	8RB-Middle	1778.5	23.63	22.65	22.64
		1745	23.67	22.70	22.74
		1711.5	23.65	22.70	22.67
	8RB-Low	1778.5	23.63	22.74	22.79
		1745	23.62	22.63	22.65
		1711.5	23.66	22.71	22.77
	15RB	1778.5	23.71	22.70	22.68

		1745	23.58	22.67	22.55
		1711.5	23.61	22.66	22.63
5MHz	1RB-High	1777.5	24.67	24.03	23.83
		1745	24.70	23.89	23.88
		1712.5	24.79	23.84	23.84
	1RB-Middle	1777.5	24.47	24.16	23.58
		1745	24.58	23.50	23.78
		1712.5	24.63	24.19	23.84
	1RB-Low	1777.5	24.75	24.07	23.83
		1745	24.75	24.05	24.06
		1712.5	24.70	23.95	23.76
	12RB-High	1777.5	23.73	22.57	22.61
		1745	23.68	22.72	22.58
		1712.5	23.77	22.80	22.61
	12RB-Middle	1777.5	23.77	22.75	22.73
		1745	23.82	22.80	22.79
		1712.5	23.82	22.77	22.55
	12RB-Low	1777.5	23.74	22.86	22.73
		1745	23.73	22.72	22.71
		1712.5	23.76	22.71	22.74
	25RB	1777.5	23.72	22.72	22.74
		1745	23.74	22.73	22.67
		1712.5	23.77	22.69	22.62
10MHz	1RB-High	1775	24.35	23.95	23.78
		1745	24.43	23.88	23.75
		1715	24.49	23.95	23.83
	1RB-Middle	1775	24.47	23.81	23.73
		1745	24.44	23.81	23.67
		1715	24.43	23.81	23.64
	1RB-Low	1775	24.48	23.95	23.63
		1745	24.50	23.84	23.71
		1715	24.49	23.85	23.74
	25RB-High	1775	23.65	22.60	22.75
		1745	23.68	22.56	22.60
		1715	23.66	22.71	22.66
	25RB-Middle	1775	23.68	22.73	22.64
		1745	23.61	22.71	22.66
		1715	23.61	22.70	22.69
	25RB-Low	1775	23.57	22.67	22.75
		1745	23.59	22.60	22.65
		1715	23.67	22.71	22.67
	50RB	1775	23.64	22.73	22.65
		1745	23.64	22.63	22.57
		1715	23.70	22.65	22.67
15MHz	1RB-High	1772.5	24.34	23.76	23.80
		1745	24.41	23.67	23.51
		1717.5	24.32	23.79	23.70
	1RB-Middle	1772.5	24.31	23.82	23.67
		1745	24.46	23.59	23.74
		1717.5	24.44	23.71	23.74
	1RB-Low	1772.5	24.37	23.92	23.86
		1745	24.44	23.78	23.81
		1717.5	24.38	23.83	23.64
	36RB-High	1772.5	23.50	22.59	22.54
		1745	23.48	22.49	22.49

		1717.5	23.41	22.39	22.41
	36RB-Middle	1772.5	23.56	22.58	22.63
		1745	23.57	22.52	22.56
		1717.5	23.58	22.46	22.55
	36RB-Low	1772.5	23.46	22.49	22.44
		1745	23.50	22.46	22.44
		1717.5	23.52	22.53	22.50
	75RB	1772.5	23.51	22.55	22.52
		1745	23.50	22.56	22.44
		1717.5	23.41	22.50	22.42
20MHz	1RB-High	1770	24.46	23.93	22.70
		1745	24.39	23.65	22.72
		1720	24.31	23.67	22.59
	1RB-Middle	1770	24.39	23.85	22.75
		1745	24.40	23.82	22.58
		1720	24.40	23.67	22.54
	1RB-Low	1770	24.38	23.83	22.66
		1745	24.39	23.87	22.70
		1720	24.49	23.74	22.57
	50RB-High	1770	23.60	22.59	21.59
		1745	23.45	22.46	21.52
		1720	23.46	22.34	21.45
	50RB-Middle	1770	23.62	22.62	21.65
		1745	23.57	22.52	21.59
		1720	23.43	22.46	21.51
	50RB-Low	1770	23.60	22.62	21.67
		1745	23.49	22.54	21.56
		1720	23.56	22.55	21.57
	100RB	1770	23.59	22.59	21.49
		1745	23.53	22.55	21.46
		1720	23.53	22.45	21.52

LTE Band71(Normal Power)

Band 71					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1RB-High (24)	695.5 (133447)	23.62	22.23	22.17
		680.5 (133297)	23.61	22.32	21.86
		665.5 (133147)	23.91	22.20	22.04
	1RB-Middle (12)	695.5 (133447)	23.51	22.77	22.63
		680.5 (133297)	23.61	23.11	22.43
		665.5 (133147)	23.34	22.62	22.48
	1RB-Low (0)	695.5 (133447)	23.61	23.65	22.43
		680.5 (133297)	23.55	23.91	24.17
		665.5 (133147)	23.55	22.86	22.64
	12RB-High (13)	695.5 (133447)	23.95	22.90	23.10
		680.5 (133297)	23.91	22.43	22.43
		665.5 (133147)	22.76	21.79	21.82
	12RB-Middle (6)	695.5 (133447)	23.91	22.94	22.43
		680.5 (133297)	23.91	21.67	22.65

		665.5 (133147)	22.41	21.44	21.41
	12RB-Low (0)	695.5 (133447)	23.94	22.88	22.85
		680.5 (133297)	23.99	22.27	22.65
		665.5 (133147)	23.04	22.08	22.04
	25RB (0)	695.5 (133447)	23.83	22.96	21.94
		680.5 (133297)	23.99	22.94	21.94
		665.5 (133147)	22.39	21.44	21.42
10MHz	1RB-High (49)	693 (132422)	23.04	22.36	22.19
		680.5 (133297)	23.04	22.04	21.79
		668 (133172)	23.54	22.54	23.85
	1RB-Middle (24)	693 (132422)	23.54	22.43	24.00
		680.5 (133297)	23.16	22.12	24.17
		668 (133172)	23.04	22.33	22.23
	1RB-Low (0)	693 (132422)	23.04	22.33	24.29
		680.5 (133297)	23.04	22.43	24.31
		668 (133172)	23.80	23.10	22.92
	25RB-High (25)	693 (132422)	23.97	22.11	21.86
		680.5 (133297)	24.00	22.43	21.90
		668 (133172)	23.03	22.26	21.04
	25RB-Middle (12)	693 (132422)	23.92	23.00	21.86
		680.5 (133297)	23.43	22.94	21.91
		668 (133172)	22.12	21.11	21.01
	25RB-Low (0)	693 (132422)	23.99	22.84	21.86
		680.5 (133297)	23.54	22.01	21.79
		668 (133172)	22.65	21.66	20.42
	50RB (0)	693 (132422)	23.93	22.94	21.73
		680.5 (133297)	23.11	22.90	21.80
		668 (133172)	22.88	21.91	21.26
15MHz	1RB-High (74)	690.5 (133397)	23.51	24.56	22.29
		680.5 (133297)	23.62	24.46	23.23
		670.5 (133197)	23.51	24.36	22.25
	1RB-Middle (37)	690.5 (133397)	23.55	24.37	22.20
		680.5 (133297)	23.55	24.29	20.43
		670.5 (133197)	23.59	24.30	22.71
	1RB-Low (0)	690.5 (133397)	23.51	24.59	21.53
		680.5 (133297)	23.55	24.52	21.55
		670.5 (133197)	23.52	23.35	20.96
	36RB-High (38)	690.5 (133397)	23.12	22.10	21.58
		680.5 (133297)	23.08	22.06	21.58
		670.5 (133197)	23.09	22.08	21.00
	36RB-Middle (19)	690.5 (133397)	23.16	22.16	21.55
		680.5 (133297)	23.14	22.16	21.51
		670.5 (133197)	23.10	22.18	20.03
	36RB-Low (0)	690.5 (133397)	23.15	22.20	20.45

		680.5 (133297)	23.16	22.10	21.47
		670.5 (133197)	23.06	22.01	20.00
	75RB (0)	690.5 (133397)	23.18	22.19	21.03
		680.5 (133297)	23.10	22.16	21.94
		670.5 (133197)	23.14	22.11	20.60
20MHz	1RB-High (99)	688 (133372)	24.02	23.44	22.14
		683 (133322)	23.98	23.63	22.31
		673 (133222)	24.08	23.59	22.36
	1RB-Middle (50)	688 (133372)	24.07	23.46	22.31
		683 (133322)	24.05	23.61	22.4
		673 (133222)	24.01	23.62	21.97
	1RB-Low (0)	688 (133372)	24.21	23.65	22.32
		683 (133322)	24.13	23.63	22.01
		673 (133222)	23.64	22.89	20.94
	50RB-High (50)	688 (133372)	23.06	22.19	21.23
		683 (133322)	23.05	22.12	21.17
		673 (133222)	23.24	22.19	21.06
	50RB-Middle (25)	688 (133372)	23.28	22.26	21.16
		683 (133322)	23.25	22.28	21.37
		673 (133222)	23.27	22.30	20.9
	50RB-Low (0)	688 (133372)	23.20	22.24	21.26
		683 (133322)	23.22	22.25	21.23
		673 (133222)	23.26	22.23	20.69
	100RB (0)	688 (133372)	23.28	22.32	21.09
		683 (133322)	23.20	22.27	21.22
		673 (133222)	23.23	22.25	20.64

LTE Carrier Aggregation Conducted Power (Downlink)

Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive. SAR test in not required since maximum output power when downlink carrier aggregation active is not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

Normal Power											
DL LTE CA Class	CC1					CC2				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_12A-66A	10M	23130	5130	1	49	20M	66536	1	0	25.00	23.83
CA_25A-25A	20M	26140	1860	1	0	20M	8590	1	0	25.00	24.12
CA_25A-26A	20M	26140	1860	1	0	15M	8865	1	0	25.00	24.20
CA_25A-41APC2	20M	26140	1860	1	0	20M	40620	1	0	25.00	24.19
CA_25A-41APC3	20M	26140	1860	1	0	20M	40620	1	0	25.00	24.22
CA_2A-2A	20M	18700	1860	1	0	20M	1100	1	0	25.00	24.07
CA_2A-4A	20M	18900	1880	1	0	20M	67036	1	0	25.00	24.00
CA_2A-5A	20M	18700	1860	1	0	15M	8865	1	0	25.00	24.07
CA_2A-66A	20M	18700	1860	1	0	20M	66536	1	0	25.00	24.07
CA_2A-71A	20M	18700	1860	1	0	20M	68836	1	0	25.00	24.06
CA_2C	20M	18700	1860	1	0	20M	898	1	0	25.00	24.07
CA_4A-12A	20M	132072	1720	1	0	5M	5155	1	12	25.00	23.10
CA_4A-4A	20M	20050	1720	1	0	20M	2300	1	0	25.00	23.02
CA_4A-5A	20M	132072	1720	1	0	15M	8865	1	0	25.00	23.04
CA_4A-71A	20M	132072	1720	1	0	20M	68836	1	0	25.00	23.03
CA_5A-66A	15M	26865	831.5	1	37	20M	66536	1	0	25.00	24.10
CA_66A-66A	20M	20050	1720	1	0	20M	2300	1	0	25.00	23.08
CA_66A-71A	20M	20050	1720	1	0	20M	68836	1	0	25.00	23.10
CA_66B	10M	132022	1715	1	0	10M	66585	1	0	25.00	22.91
CA_66C	20M	132572	1770	1	99	20M	67234	1	99	25.00	23.02
CA_66A-12A	20M	20050	1720	1	0	5M	5155	1	12	25.00	23.04
CA_26A-25A	15M	26865	831.5	1	37	20M	8590	1	0	25.00	24.17
CA_41APC2-25A	20M	39750	2506	1	99	20M	8590	1	0	27.50	26.04
CA_41APC3-25A	20M	39750	2506	1	99	20M	8590	1	0	25.00	24.02
CA_12A-2A	10M	23130	5130	1	49	20M	1100	1	0	25.00	23.84
CA_4A-2A	20M	132072	1720	1	0	20M	1100	1	0	25.00	23.09
CA_5A-2A	15M	26865	831.5	1	37	20M	1100	1	0	25.00	24.13
CA_66A-2A	20M	20050	1720	1	0	20M	1100	1	0	25.00	23.02
CA_71A-2A	20M	133322	683	1	0	20M	1100	1	0	25.00	24.02
CA_12A-4A	10M	23130	5130	1	49	20M	67036	1	0	25.00	23.87
CA_5A-4A	15M	26865	831.5	1	37	20M	67036	1	0	25.00	24.17
CA_71A-4A	20M	133322	683	1	0	20M	67036	1	0	25.00	24.01
CA_66A-5A	20M	20050	1720	1	0	15M	8865	1	0	25.00	23.05
CA_71A-66A	20M	133322	683	1	0	20M	66536	1	0	25.00	24.00

Low Power											
DL LTE CA Class	CC1					CC2				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_12A-66A	10M	23130	5130	1	49	20M	66536	1	0	22	21.36
CA_25A-25A	20M	26140	1860	1	0	20M	8590	1	0	17	15.81
CA_25A-26A	20M	26140	1860	1	0	15M	8865	1	0	17	15.83
CA_25A-41APC2	20M	26140	1860	1	0	20M	40620	1	0	17	15.82
CA_25A-41APC3	20M	26140	1860	1	0	20M	40620	1	0	17	15.9
CA_2A-12A	20M	18900	1880	1	0	5M	5155	1	12	17	16.45
CA_2A-2A	20M	18700	1860	1	0	20M	1100	1	0	17	16.41
CA_2A-4A	20M	18900	1880	1	0	20M	67036	1	0	17	16.4
CA_2A-5A	20M	18700	1860	1	0	15M	8865	1	0	17	16.48
CA_2A-66A	20M	18700	1860	1	0	20M	66536	1	0	17	16.48
CA_2A-71A	20M	18700	1860	1	0	20M	68836	1	0	17	16.49
CA_2C	20M	18700	1860	1	0	20M	898	1	0	17	16.39
CA_4A-12A	20M	132072	1720	1	0	5M	5155	1	12	17	15.93
CA_4A-4A	20M	132072	1720	1	0	20M	2300	1	0	17	15.9
CA_4A-5A	20M	132072	1720	1	0	15M	8865	1	0	17	15.95
CA_4A-71A	20M	132072	1720	1	0	20M	68836	1	0	17	15.97
CA_5A-66A	15M	26865	831.5	1	37	20M	66536	1	0	25	22.98
CA_66A-66A	20M	132072	1720	1	50	20M	2300	1	0	17	16.26
CA_66A-71A	20M	132072	1720	1	50	20M	68836	1	0	17	16.21
CA_66B	10M	132022	1715	1	0	10M	66585	1	0	17	16.19
CA_66C	20M	132572	1770	1	99	20M	67234	1	99	17	15.87
CA_66A-12A	20M	132072	1720	1	50	5M	5155	1	12	17	16.24
CA_26A-25A	15M	26865	831.5	1	37	20M	8590	1	0	25	22.97
CA_41APC2-25A	20M	39750	2506	1	99	20M	8590	1	0	17.5	16.4
CA_41APC3-25A	20M	39750	2506	1	99	20M	8590	1	0	15.00	14.66
CA_12A-2A	10M	23130	5130	1	49	20M	1100	1	0	22	21.28
CA_4A-2A	20M	132072	1720	1	0	20M	1100	1	0	17	15.97
CA_5A-2A	15M	26865	831.5	1	37	20M	1100	1	0	25	23.02
CA_66A-2A	20M	132072	1720	1	0	20M	1100	1	0	17	16.23
CA_71A-2A	20M	133322	683	1	0	20M	1100	1	0	22	21.01
CA_12A-4A	10M	23130	5130	1	49	20M	67036	1	0	22	21.26
CA_5A-4A	15M	26865	831.5	1	37	20M	67036	1	0	25	22.98
CA_71A-4A	20M	133322	683	1	0	20M	67036	1	0	22	21.08
CA_66A-5A	20M	132072	1720	1	0	15M	8865	1	0	17	16.22
CA_71A-66A	20M	133322	683	1	0	20M	66536	1	0	22	21.03

Normal Power															
DL LTE CA Class	CC1					CC2				CC3				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_12A-66A-66A	10M	23130	5130	1	49	20M	66536	1	0	20M	66536	1	0	25.00	23.77
CA_12A-66C	10M	23130	5130	1	49	20M	66536	1	0	20M	66536	1	0	25.00	23.79
CA_2A-12A-66A	20M	18700	1860	1	0	20M	1100	1	0	20M	66536	1	0	25.00	24.06
CA_2A-2A-12A	20M	18700	1860	1	0	20M	1100	1	0	5M	5155	1	12	25.00	24.03
CA_2A-2A-4A	20M	18700	1860	1	0	20M	1100	1	0	20M	67036	1	0	25.00	24.11
CA_2A-2A-66A	20M	18700	1860	1	0	20M	1100	1	0	20M	66536	1	0	25.00	24.10
CA_2A-2A-71A	20M	18700	1860	1	0	20M	1100	1	0	20M	68836	1	0	25.00	24.01
CA_2A-4A-12A	20M	18700	1860	1	0	20M	67036	1	0	5M	5155	1	12	25.00	24.06
CA_2A-4A-4A	20M	18700	1860	1	0	20M	67036	1	0	20M	2300	1	0	25.00	24.10
CA_2A-4A-5A	20M	18700	1860	1	0	20M	67036	1	0	15M	8865	1	0	25.00	24.03
CA_2A-4A-71A	20M	18700	1860	1	0	20M	67036	1	0	20M	68836	1	0	25.00	24.08
CA_2A-5A-66A	20M	18700	1860	1	0	15M	8865	1	0	20M	66536	1	0	25.00	24.06
CA_2A-66A-66A	20M	18700	1860	1	0	20M	2300	1	0	20M	2300	1	0	25.00	24.07
CA_2A-66A-71A	20M	18700	1860	1	0	20M	2300	1	0	20M	68836	1	0	25.00	24.10
CA_2A-66C	20M	18700	1860	1	0	20M	2300	1	0	20M	2300	1	0	25.00	24.01
CA_2C-66A	20M	18700	1860	1	0	20M	2300	1	0	20M	2300	1	0	25.00	24.10
CA_41APC3-41CPC3	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	25.00	24.02
CA_41APC2-41CPC2	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	27.50	26.12
CA_41DPC3	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	25.00	24.10
CA_41DPC2	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	27.50	25.66
CA_4A-4A-12A	20M	20050	1720	1	0	20M	2300	1	0	5M	5155	1	12	25.00	23.08
CA_4A-4A-71A	20M	20050	1720	1	0	20M	2300	1	0	20M	68836	1	0	25.00	23.04
CA_66A-66A-71A	20M	20050	1720	1	0	20M	2300	1	0	20M	68836	1	0	25.00	23.03
CA_66A-66C	20M	20050	1720	1	0	20M	2300	1	0	20M	67234	1	99	25.00	23.06
CA_66C-71A	20M	132572	1770	1	99	20M	67234	1	99	20M	68836	1	0	25.00	23.07
CA_66A-12A-66A	20M	20050	1720	1	0	20M	1100	1	0	20M	66536	1	0	25.00	23.11
CA_66C-12A	20M	132572	1770	1	99	20M	67234	1	99	5M	5155	1	12	25.00	22.99
CA_66A-2A-12A	20M	20050	1720	1	0	20M	1100	1	0	5M	5155	1	12	25.00	23.04
CA_12A-2A-2A	10M	23130	5130	1	49	20M	1100	1	0	5M	5155	1	12	25.00	23.83
CA_4A-2A-2A	20M	132072	1720	1	0	20M	1100	1	0	5M	5155	1	12	25.00	23.11
CA_66A-2A-2A	20M	20050	1720	1	0	20M	1100	1	0	5M	5155	1	12	25.00	23.11
CA_71A-2A-2A	20M	133322	683	1	0	20M	1100	1	0	5M	5155	1	12	25.00	23.94
CA_12A-2A-4A	10M	23130	5130	1	49	20M	1100	1	0	20M	2300	1	0	25.00	23.78
CA_4A-2A-4A	20M	132072	1720	1	0	20M	1100	1	0	20M	2300	1	0	25.00	23.11
CA_5A-2A-4A	15M	26865	831.5	1	37	20M	1100	1	0	20M	2300	1	0	25.00	24.09
CA71A- 2A-4A	20M	133322	683	1	0	20M	1100	1	0	20M	2300	1	0	25.00	23.96
CA_66A-2A-5A	20M	20050	1720	1	0	20M	1100	1	0	15M	8865	1	0	25.00	23.11
CA_66A-2A-66A	20M	20050	1720	1	0	20M	1100	1	0	20M	2300	1	0	25.00	23.08
CA_71A-2A-66A	20M	133322	683	1	0	20M	1100	1	0	20M	2300	1	0	25.00	23.98
CA_66C-2A	20M	132572	1770	1	99	20M	67234	1	99	5M	5155	1	12	25.00	23.01
CA_66A-2C	20M	20050	1720	1	0	20M	1100	1	0	5M	5155	1	12	25.00	23.01
CA_41CPC3-41APC3	20M	39750	2506	1	0	20M	39948	1	0	20M	41490	1	99	25.00	23.86
CA_41CPC2-41APC2	20M	39750	2506	1	0	20M	39948	1	0	20M	41490	1	99	27.50	27.01
CA_12A-4A-4A	10M	23130	5130	1	49	20M	1100	1	0	20M	2300	1	0	25.00	23.83
CA_71A-4A-4A	20M	133322	683	1	0	20M	67036	1	0	20M	2300	1	0	25.00	24.01
CA_71A-66A-66A	20M	133322	683	1	0	20M	66536	1	0	20M	2300	1	0	25.00	23.97
CA_66C-66A	20M	132572	1770	1	99	20M	67234	1	99	20M	2300	1	0	25.00	23.09
CA_71A-66C	20M	133322	683	1	0	20M	66536	1	0	20M	2300	1	0	25.00	23.97

Low Power															
DL LTE CA Class	CC1					CC2				CC3				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_12A-66A-66A	10M	23130	5130	1	49	20M	66536	1	0	20M	2300	1	0	22	21.3
CA_12A-66C	10M	23130	5130	1	49	20M	132572	1	99	20M	67234	1	99	22	21.36
CA_2A-12A-66A	20M	18900	1880	1	0	5M	5155	1	12	20M	2300	1	0	17	16.35
CA_2A-2A-12A	20M	18700	1860	1	0	20M	1100	1	0	5M	5155	1	12	17	16.48
CA_2A-2A-4A	20M	18700	1860	1	0	20M	1100	1	0	20M	67036	1	0	17	16.41
CA_2A-2A-66A	20M	18700	1860	1	0	20M	1100	1	0	20M	66536	1	0	17	16.41
CA_2A-2A-71A	20M	18700	1860	1	0	20M	1100	1	0	20M	68836	1	0	17	16.45
CA_2A-4A-12A	20M	18900	1880	1	0	20M	67036	1	0	5M	5155	1	12	17	16.43
CA_2A-4A-4A	20M	18900	1880	1	0	20M	67036	1	0	20M	67036	1	0	17	16.4
CA_2A-4A-5A	20M	18900	1880	1	0	20M	67036	1	0	15M	8865	1	0	17	16.44
CA_2A-4A-71A	20M	18900	1880	1	0	20M	67036	1	0	20M	68836	1	0	17	16.4
CA_2A-5A-66A	20M	18700	1860	1	0	15M	8865	1	0	20M	66536	1	0	17	16.42
CA_2A-66A-66A	20M	18700	1860	1	0	20M	66536	1	0	20M	66536	1	0	17	16.4
CA_2A-66A-71A	20M	18700	1860	1	0	20M	66536	1	0	20M	68836	1	0	17	16.47
CA_2A-66C	20M	18700	1860	1	0	20M	66536	1	0	20M	66536	1	0	17	16.43
CA_2C-66A	20M	18700	1860	1	0	20M	66536	1	0	20M	66536	1	0	17	16.4
CA_41APC3-41CPC3	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	15	14.11
CA_41APC3-41CPC3	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	15	14.11
CA_41DPC3	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	15	14.08
CA_41DPC2	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	17.5	15.84
CA_4A-4A-12A	20M	132072	1720	1	0	20M	2300	1	0	5M	5155	1	12	17	15.93
CA_4A-4A-71A	20M	132072	1720	1	0	20M	2300	1	0	20M	68836	1	0	17	15.94
CA_66A-66A-71A	20M	132072	1720	1	50	20M	2300	1	0	20M	68836	1	0	17	16.25
CA_66A-66C	20M	132072	1720	1	50	20M	2300	1	0	20M	66536	1	0	17	16.22
CA_66C-71A	20M	132072	1720	1	50	20M	2300	1	0	20M	68836	1	0	17	16.24
CA_66A-12A-66A	20M	132072	1720	1	50	5M	5155	1	12	20M	66536	1	0	17	16.21
CA_66C-12A	20M	132572	1770	1	99	20M	67234	1	99	5M	5155	1	12	17	15.9
CA_66A-2A-12A	20M	132072	1720	1	0	20M	1100	1	0	5M	5155	1	12	17	16.25
CA_12A-2A-2A	10M	23130	5130	1	49	20M	1100	1	0	20M	1100	1	0	22	21.33
CA_4A-2A-2A	20M	132072	1720	1	0	20M	1100	1	0	20M	1100	1	0	17	15.93
CA_66A-2A-2A	20M	132072	1720	1	0	20M	1100	1	0	20M	1100	1	0	17	16.27
CA_71A-2A-2A	20M	133322	683	1	0	20M	1100	1	0	20M	1100	1	0	22	21.08
CA_12A-2A-4A	10M	23130	5130	1	49	20M	1100	1	0	20M	2300	1	0	22	21.26
CA_4A-2A-4A	20M	132072	1720	1	0	20M	1100	1	0	20M	2300	1	0	17	15.93
CA_5A-2A-4A	15M	26865	831.5	1	37	20M	1100	1	0	20M	2300	1	0	25	23.01
CA71A-_2A-4A	20M	133322	683	1	0	20M	1100	1	0	20M	2300	1	0	22	21
CA_66A-2A-5A	20M	132072	1720	1	0	20M	1100	1	0	15M	8865	1	0	17	16.24
CA_66A-2A-66A	20M	132072	1720	1	0	20M	1100	1	0	20M	66536	1	0	17	16.21
CA_71A-2A-66A	20M	133322	683	1	0	20M	1100	1	0	20M	66536	1	0	22	21.05
CA_66C-2A	20M	132072	1720	1	0	20M	1100	1	0	20M	1100	1	0	17	16.25
CA_66A-2C	20M	132072	1720	1	0	20M	1100	1	0	20M	1100	1	0	17	16.2
CA_12A-4A-4A	10M	23130	5130	1	49	20M	67036	1	0	20M	2300	1	0	22	21.33
CA_71A-4A-4A	20M	133322	683	1	0	20M	67036	1	0	20M	2300	1	0	22	21
CA_71A-66A-66A	20M	133322	683	1	0	20M	66536	1	0	20M	66536	1	0	22	21.07
CA_66C-66A	20M	132572	1770	1	99	20M	67234	1	99	20M	66536	1	0	17	15.95
CA_71A-66C	20M	133322	683	1	0	20M	66536	1	0	20M	66536	1	0	22	21

Normal Power																			
DL LTE CA Class	CC1					CC2				CC3				CC4				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_25A-41DPC3	20M	26140	1860	1	0	20M	39948	1	0	20M	41490	1	99	20M	41490	1	99	25.00	24.14
CA_25A-41DPC2	20M	26140	1860	1	0	20M	39948	1	0	20M	41490	1	99	20M	41490	1	99	25.00	24.13
CA_2A-12A-66A-66A	20M	18900	1880	1	0	5M	5155	1	12	20M	66536	1	0	20M	66536	1	0	25.00	24.05
CA_2A-12A-66C	20M	18900	1880	1	0	5M	5155	1	12	20M	66536	1	0	20M	66536	1	0	25.00	24.08
CA_2A-2A-12A-66A	20M	18700	1860	1	0	20M	1100	1	0	20M	1100	1	0	20M	66536	1	0	25.00	24.08
CA_2A-2A-4A-12A	20M	18700	1860	1	0	20M	1100	1	0	20M	67036	1	0	5M	5155	1	12	25.00	24.09
CA_2A-2A-4A-71A	20M	18700	1860	1	0	20M	1100	1	0	20M	67036	1	0	20M	68836	1	0	25.00	24.07
CA_2A-2A-66A-66A	20M	18700	1860	1	0	20M	1100	1	0	20M	2300	1	0	20M	2300	1	0	25.00	24.05
CA_2A-2A-66A-71A	20M	18700	1860	1	0	20M	1100	1	0	20M	2300	1	0	20M	2300	1	0	25.00	24.07
CA_2A-2A-66C	20M	18700	1860	1	0	20M	1100	1	0	20M	2300	1	0	20M	2300	1	0	25.00	24.03
CA_2A-4A-4A-12A	20M	18900	1880	1	0	20M	67036	1	0	20M	67036	1	0	5M	5155	1	12	25.00	24.10
CA_2A-66A-66A-71A	20M	18700	1860	1	0	20M	66536	1	0	20M	2300	1	0	20M	68836	1	0	25.00	24.04
CA_2A-66C-71A	20M	18700	1860	1	0	20M	66536	1	0	20M	2300	1	0	20M	68836	1	0	25.00	24.02
CA_2C-66A-66A	20M	18700	1860	1	0	20M	66536	1	0	20M	2300	1	0	20M	2300	1	0	25.00	24.03
CA_41CPC3-41CPC3	20M	39750	2506	1	0	20M	39948	1	0	20M	41490	1	99	20M	39948	1	0	25.00	24.10
CA_41CPC2-41CPC2	20M	39750	2506	1	0	20M	39948	1	0	20M	41490	1	99	20M	39948	1	0	27.50	26.01
CA_41DPC3-25A	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	20M	8590	1	0	25.00	24.00
CA_41DPC2-25A	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	20M	8590	1	0	27.50	26.62
CA_66A-2A-12A-66A	20M	20050	1720	1	0	20M	1100	1	0	5M	5155	1	12	20M	2300	1	0	25.00	23.04
CA_66C-2A-12A	20M	132572	1770	1	99	20M	67234	1	99	20M	1100	1	0	5M	5155	1	12	25.00	23.07
CA_12A-2A-2A-66A	10M	23130	5130	1	49	20M	1100	1	0	5M	5155	1	12	20M	2300	1	0	25.00	23.84
CA_4A-2A-2A-12A	20M	132072	1720	1	0	20M	1100	1	0	5M	5155	1	12	5M	5155	1	12	25.00	23.03
CA_71A-2A-2A-4A	20M	133322	683	1	0	20M	1100	1	0	20M	1100	1	0	20M	2300	1	0	25.00	23.94
CA_66A-2A-2A-66A	20M	20050	1720	1	0	20M	1100	1	0	20M	1100	1	0	20M	2300	1	0	25.00	23.08
CA_71A-2A-2A-66A	20M	133322	683	1	0	20M	1100	1	0	20M	1100	1	0	20M	2300	1	0	25.00	23.97
CA_66C-2A-2A	20M	132572	1770	1	99	20M	67234	1	99	20M	1100	1	0	5M	5155	1	12	25.00	23.07
CA_12A-2A-4A-4A	10M	23130	5130	1	49	20M	1100	1	0	20M	2300	1	0	20M	2300	1	0	25.00	23.82
CA_71A-2A-66A-66A	20M	133322	683	1	0	20M	1100	1	0	20M	2300	1	0	20M	2300	1	0	25.00	23.95
CA_71A-2A-66C	20M	133322	683	1	0	20M	1100	1	0	20M	2300	1	0	20M	67234	1	99	25.00	24.00
CA_66A-2C-66A	20M	132572	1770	1	99	20M	67234	1	99	20M	1100	1	0	20M	2300	1	0	25.00	23.05

Low Power																			
DL LTE CA Class	CC1					CC2				CC3				CC4				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_25A-41DPC3	20M	26140	1860	1	0	20M	8590	1	0	20M	41490	1	99	20M	39948	1	0	17	15.83
CA_25A-41DPC2	20M	26140	1860	1	0	20M	8590	1	0	20M	41490	1	99	20M	39948	1	0	17.5	16.01
CA_2A-12A-66A-66A	20M	18900	1880	1	0	5M	5155	1	12	20M	66536	1	0	20M	66536	1	0	17	16.37
CA_2A-12A-66C	20M	18900	1880	1	0	5M	5155	1	12	20M	66536	1	0	20M	66536	1	0	17	16.4
CA_2A-2A-12A-66A	20M	18700	1860	1	0	20M	1100	1	0	5M	5155	1	12	20M	66536	1	0	17	16.49
CA_2A-2A-4A-12A	20M	18700	1860	1	0	20M	1100	1	0	20M	67036	1	0	5M	5155	1	12	17	16.43
CA_2A-2A-4A-71A	20M	18700	1860	1	0	20M	1100	1	0	20M	67036	1	0	20M	68836	1	0	17	16.49
CA_2A-2A-66A-66A	20M	18700	1860	1	0	20M	1100	1	0	20M	66536	1	0	20M	66536	1	0	17	16.49
CA_2A-2A-66A-71A	20M	18700	1860	1	0	20M	1100	1	0	20M	66536	1	0	20M	68836	1	0	17	16.44
CA_2A-2A-66C	20M	18700	1860	1	0	20M	1100	1	0	20M	132572	1	99	20M	67234	1	99	17	16.49
CA_2A-4A-4A-12A	20M	18900	1880	1	0	20M	67036	1	0	20M	67036	1	0	5M	5155	1	12	17	16.44
CA_2A-66A-66A-71A	20M	18700	1860	1	0	20M	66536	1	0	20M	66536	1	0	20M	68836	1	0	17	16.42
CA_2A-66C-71A	20M	18700	1860	1	0	20M	66536	1	0	20M	66536	1	0	20M	68836	1	0	17	16.39
CA_2C-66A-66A	20M	18700	1860	1	0	20M	66536	1	0	20M	66536	1	0	20M	66536	1	0	17	16.39
CA_41CPC3-41CPC3	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	20M	39948	1	0	15	14.11
CA_41CPC2-41CPC2	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	20M	39948	1	0	17.5	16.11
CA_41DPC3-25A	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	20M	8590	1	0	15	14.05
CA_41DPC2-25A	20M	39750	2506	1	99	20M	41490	1	99	20M	39948	1	0	20M	8590	1	0	17.5	16.12
CA_66A-2A-12A-66A	20M	132072	1720	1	0	20M	1100	1	0	5M	5155	1	12	20M	66536	1	0	17	16.2
CA_66C-2A-12A	20M	132572	1770	1	99	20M	67234	1	99	20M	1100	1	0	5M	5155	1	12	17	16.25
CA_12A-2A-2A-66A	10M	23130	5130	1	49	20M	1100	1	0	20M	1100	1	0	20M	66536	1	0	22	21.33
CA_4A-2A-2A-12A	20M	132072	1720	1	0	20M	1100	1	0	20M	2300	1	0	5M	5155	1	12	17	15.98
CA_71A-2A-2A-4A	20M	133322	683	1	0	20M	1100	1	0	20M	1100	1	0	20M	67036	1	0	22	21.01
CA_66A-2A-2A-66A	20M	132072	1720	1	0	20M	1100	1	0	20M	1100	1	0	20M	2300	1	0	17	16.28
CA_71A-2A-2A-66A	20M	133322	683	1	0	20M	1100	1	0	20M	1100	1	0	20M	2300	1	0	22	21.06
CA_66C-2A-2A	20M	132072	1720	1	0	20M	1100	1	0	20M	1100	1	0	20M	1100	1	0	17	16.21
CA_12A-2A-4A-4A	10M	23130	5130	1	49	20M	1100	1	0	20M	2300	1	0	20M	2300	1	0	22	21.32
CA_71A-2A-66A-66A	20M	133322	683	1	0	20M	1100	1	0	20M	67036	1	0	20M	2300	1	0	22	21.04
CA_71A-2A-66C	20M	133322	683	1	0	20M	1100	1	0	20M	66536	1	0	20M	66536	1	0	22	20.99
CA_66A-2C-66A	20M	132072	1720	1	0	20M	1100	1	0	20M	1100	1	0	20M	2300	1	0	17	16.23

11.4 NR 5G Measurement result

According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping 5G NR(FR1) bands as follows:

a) The maximum output power, including tolerance, for the smaller band must be ≤ the larger band to qualify for the SAR test exclusion.

b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.

Uplink RB allocations were used to Table 6.1-1 of the 3GPP TS 138.521-1:

Channel Bandwidth	SCS(kHz)	OFDM	RB allocation							
			Edge_Full_Left	Edge_Full_Right	Edge_1RB_Left	Edge_1RB_Right	Outer_Full	Inner_Full	Inner_1RB_Left	Inner_1RB_Right
5MHz	15	DFT-s	2@0	2@23	1@0	1@24	25@0	12@6	1@1	1@23
		CP	2@0	2@23	1@0	1@24	25@0	13@6	1@1	1@23
	30	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2[1]	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2[1]	1@1	1@9
	60	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10MHz	15	DFT-s	2@0	2@50	1@0	1@51	50@0	25@12	1@1	1@50
		CP	2@0	2@50	1@0	1@51	52@0	26@13	1@1	1@50
	30	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
	60	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2[1]	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2[1]	1@1	1@9
15MHz	15	DFT-s	2@0	2@77	1@0	1@78	75@0	36@18	1@1	1@77
		CP	2@0	2@77	1@0	1@78	79@0	39@19[1]	1@1	1@77
	30	DFT-s	2@0	2@36	1@0	1@37	36@0	18@9	1@1	1@36
		CP	2@0	2@36	1@0	1@37	38@0	19@9	1@1	1@36
	60	DFT-s	2@0	2@16	1@0	1@17	18@0	9@4	1@1	1@16
		CP	2@0	2@16	1@0	1@17	18@0	9@4	1@1	1@16
20MHz	15	DFT-s	2@0	2@104	1@0	1@105	100@0	50@25	1@1	1@104
		CP	2@0	2@104	1@0	1@105	106@0	53@26	1@1	1@104
	30	DFT-s	2@0	2@49	1@0	1@50	50@0	25@12	1@1	1@49
		CP	2@0	2@49	1@0	1@50	51@0	25@12[1]	1@1	1@49
	60	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
25MHz	15	DFT-s	2@0	2@131	1@0	1@132	128@0	64@32	1@1	1@131
		CP	2@0	2@131	1@0	1@132	133@0	67@33	1@1	1@131
	30	DFT-s	2@0	2@63	1@0	1@64	64@0	32@16	1@1	1@63
		CP	2@0	2@63	1@0	1@64	65@0	33@16	1@1	1@63
	60	DFT-s	2@0	2@29	1@0	1@30	30@0	15@7[1]	1@1	1@29
		CP	2@0	2@29	1@0	1@30	31@0	15@7[1]	1@1	1@29
30MHz	15	DFT-s	2@0	2@158	1@0	1@159	160@0	80@40	1@1	1@158
		CP	2@0	2@158	1@0	1@159	160@0	80@40	1@1	1@158
	30	DFT-s	2@0	2@76	1@0	1@77	75@0	36@18	1@1	1@76
		CP	2@0	2@76	1@0	1@77	78@0	39@19	1@1	1@76
	60	DFT-s	2@0	2@36	1@0	1@37	36@0	18@9	1@1	1@36
		CP	2@0	2@36	1@0	1@37	38@0	19@9	1@1	1@36
40MHz	15	DFT-s	2@0	2@214	1@0	1@215	216@0	108@54	1@1	1@214
		CP	2@0	2@214	1@0	1@215	216@0	108@54	1@1	1@214
	30	DFT-s	2@0	2@104	1@0	1@105	100@0	50@25	1@1	1@104
		CP	2@0	2@104	1@0	1@105	106@0	53@26	1@1	1@104
	60	DFT-s	2@0	2@49	1@0	1@50	50@0	25@12	1@1	1@49
		CP	2@0	2@49	1@0	1@50	51@0	25@12[1]	1@1	1@49
50MHz	15	DFT-s	2@0	2@268	1@0	1@269	270@0	135@67	1@1	1@268
		CP	2@0	2@268	1@0	1@269	270@0	135@67	1@1	1@268
	30	DFT-s	2@0	2@131	1@0	1@132	128@0	64@32	1@1	1@131
		CP	2@0	2@131	1@0	1@132	133@0	67@33	1@1	1@131
	60	DFT-s	2@0	2@63	1@0	1@64	64@0	32@16	1@1	1@63
		CP	2@0	2@63	1@0	1@64	65@0	33@16	1@1	1@63
60MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	DFT-s	2@0	2@160	1@0	1@161	162@0	81@40	1@1	1@160
		CP	2@0	2@160	1@0	1@161	162@0	81@40	1@1	1@160
	60	DFT-s	2@0	2@77	1@0	1@78	75@0	36@18	1@1	1@77
		CP	2@0	2@77	1@0	1@78	79@0	39@19[1]	1@1	1@77
80MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	30	DFT-s	2@0	2@215	1@0	1@216	216@0	108@54	1@1	1@215
		CP	2@0	2@215	1@0	1@216	217@0	109@54	1@1	1@215
	60	DFT-s	2@0	2@105	1@0	1@106	100@0	50@25	1@1	1@105
		CP	2@0	2@105	1@0	1@106	107@0	53@26[1]	1@1	1@105
90MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	DFT-s	2@0	2@243	1@0	1@244	240@0	120@60	1@1	1@243
		CP	2@0	2@243	1@0	1@244	245@0	123@61	1@1	1@243
	60	DFT-s	2@0	2@119	1@0	1@120	120@0	60@30	1@1	1@119
		CP	2@0	2@119	1@0	1@120	121@0	61@30	1@1	1@119
100MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	DFT-s	2@0	2@271	1@0	1@272	270@0	135@67	1@1	1@271
		CP	2@0	2@271	1@0	1@272	273@0	137@68	1@1	1@271
	60	DFT-s	2@0	2@133	1@0	1@134	135@0	64@32	1@1	1@133
		CP	2@0	2@133	1@0	1@134	135@0	67@33[1]	1@1	1@133

Note 1: The allocated RB number L_{CRB} is ceil(N_{RB}/2) -1 in order to meet Inner RB allocation definition ($RB_{Start,Low} \le RB_{Start} \le RB_{Start,High}$) described in subclause 6.2.2 of TS 38.101-1 [2].

3GPP MPR for NR:

Table 6.2.2.3-1: Maximum Power Reduction (MPR) for Power 3

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM PI/2 BPSK	≤ 3.5[1]	≤ 1.2[1]	≤ 0.2[1]
	≤ 0.5[2]		0[2]
DFT-s-OFDM QPSK	≤ 1		0
DFT-s-OFDM 16 QAM	≤ 2		≤ 1
DFT-s-OFDM 64 QAM	≤ 2.5		
DFT-s-OFDM 256 QAM	≤ 4.5		
CP-OFDM QPSK	≤ 3		≤ 1.5
CP-OFDM 16 QAM	≤ 3		≤ 2
CP-OFDM 64 QAM	≤ 3.5		
CP-OFDM 256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

No.	Test Freq Description	5G-n25 Normal Power							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	25.50	24.71
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	25.50	24.79
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	25.50	24.77
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	25.50	24.66
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	25.50	24.78
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	25.50	24.82
7	Middle	15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50_25	1882.5	376500	25.50	25.23
8	Middle	15	20	DFT-s-OFDM 16QAM	Inner_Full	50_25	1882.5	376500	25.50	24.12
9	Middle	15	20	DFT-s-OFDM 64QAM	Inner_Full	50_25	1882.5	376500	25.50	23.60
10	Middle	15	20	DFT-s-OFDM 256QAM	Inner_Full	50_25	1882.5	376500	25.50	23.57
11	Middle	15	20	CP-OFDM QPSK	Inner_Full	50_25	1882.5	376500	25.50	23.55
12	Middle	15	20	CP-OFDM 16QAM	Inner_Full	50_25	1882.5	376500	25.50	23.57
13	Middle	15	20	CP-OFDM 64QAM	Inner_Full	50_25	1882.5	376500	25.50	23.64
14	Middle	15	20	CP-OFDM 256QAM	Inner_Full	50_25	1882.5	376500	25.50	23.62
15	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	25.50	24.23
16	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	25.50	24.32
17	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	25.50	24.39
18	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	25.50	24.33
19	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	25.50	25.34
20	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	25.50	25.36
21	Middle	15	20	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	25.50	24.27
22	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1910	382000	25.50	25.12
23	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	25.50	25.31
24	Low	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1855	371000	25.50	25.26
25	High	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1907.5	381500	25.50	24.99
26	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	25.50	25.18
27	Low	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1857.5	371500	25.50	25.24

No.	Test Freq Description	5G-n25 Low Power							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	17.50	16.63
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	17.50	16.72
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	17.50	16.67
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	17.50	16.59
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	17.50	16.70
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	17.50	16.71
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	17.50	16.75
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	17.50	16.77
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	17.50	16.79
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	17.50	16.67
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	17.50	16.67
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	17.50	16.64
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	17.50	16.61
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	17.50	16.70
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	17.50	16.74
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	17.50	16.69
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	17.50	16.84
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	17.50	16.80
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	17.50	16.88
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	17.50	16.79
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	17.50	16.72
22	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1910	382000	17.50	16.71
23	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	17.50	16.80
24	Low	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1855	371000	17.50	16.65
25	High	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1907.5	381500	17.50	16.59
26	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	17.50	16.69
27	Low	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1857.5	371500	17.50	16.64

No.	Test Freq Description	5G-n66 Normal Power							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	25.50	24.77
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	25.50	24.78
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	25.50	24.48
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	25.50	25.06
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	25.50	25.02
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	25.50	25.00
7	Middle	15	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1745	349000	25.50	25.03
8	Middle	15	40	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	25.50	23.99
9	Middle	15	40	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	25.50	23.53
10	Middle	15	40	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	25.50	23.61
11	Middle	15	40	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	25.50	23.63
12	Middle	15	40	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	25.50	23.58
13	Middle	15	40	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	25.50	23.52
14	Middle	15	40	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	25.50	23.57
15	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	25.50	24.03
16	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	25.50	24.06
17	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	25.50	24.13
18	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	25.50	24.10
19	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	25.50	25.23
20	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	25.50	25.21
21	Middle	15	40	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	25.50	24.07
22	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1775	355000	25.50	25.11
23	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	25.50	25.08
24	Low	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1715	343000	25.50	24.21
25	High	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1772.5	354500	25.50	24.43
26	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	25.50	24.97
27	Low	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1717.5	343500	25.50	24.32
28	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1770	354000	25.50	24.93
29	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	25.50	25.09
30	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1720	344000	25.50	24.30
31	High	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1767.5	353500	25.50	25.01
32	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1745	349000	25.50	24.97
33	Low	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1722.5	344500	25.50	25.00
34	High	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1765	35300	25.50	25.05
35	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	25.50	25.06
36	Low	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1725	345000	25.50	25.02

No.	Test Freq Description	5G-n66 Low Power							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	17.50	16.41
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	17.50	16.38
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	17.50	16.48
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	17.50	16.33
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	17.50	16.32
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	17.50	16.27
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1745	349000	17.50	16.37
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	17.50	16.38
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	17.50	16.36
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	17.50	16.45
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	17.50	16.47
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	17.50	16.44
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	17.50	16.30
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	17.50	16.41
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	17.50	16.47
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	17.50	16.41
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	17.50	16.42
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	17.50	16.45
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	17.50	16.46
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	17.50	16.43
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	17.50	16.40
22	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1775	355000	17.50	16.44
23	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	17.50	16.40
24	Low	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1715	343000	17.50	16.44
25	High	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1772.5	354500	17.50	16.31
26	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	17.50	16.35
27	Low	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1717.5	343500	17.50	16.42
28	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1770	354000	17.50	16.72
29	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	17.50	16.85
30	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1720	344000	17.50	17.05
31	High	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1767.5	353500	17.50	16.16
32	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1745	349000	17.50	16.39
33	Low	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1722.5	344500	17.50	16.50
34	High	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1765	35300	17.50	16.47
35	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	17.50	16.80
36	Low	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1725	345000	17.50	16.91

No.	Test Freq Description	5G-n71 Normal Power							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n71
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	695.5	139100	25.50	24.96
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	680.5	136100	25.50	24.89
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	665.5	133100	25.50	25.04
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	688	137600	25.50	24.74
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	680.5	136100	25.50	24.69
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	673	134600	25.50	24.88
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	680.5	136100	25.50	25.09
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	680.5	136100	25.50	23.70
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	680.5	136100	25.50	23.56
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	680.5	136100	25.50	23.59
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	680.5	136100	25.50	23.50
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	680.5	136100	25.50	23.63
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	680.5	136100	25.50	23.61
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	680.5	136100	25.50	23.51
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	680.5	136100	25.50	23.70
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	680.5	136100	25.50	23.69
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	680.5	136100	25.50	23.72
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	680.5	136100	25.50	23.67
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	680.5	136100	25.50	24.51
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	680.5	136100	25.50	24.51
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	680.5	136100	25.50	23.64
14	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	693	138600	25.50	24.85
15	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	680.5	136100	25.50	24.49
16	Low	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	668	133600	25.50	24.89
17	High	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	690.5	138100	25.50	24.69
18	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	680.5	136100	25.50	24.37
19	Low	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	670.5	134100	25.50	24.74

No.	Test Freq Description	5G-n71 Low Power							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n71
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	695.5	139100	22.50	21.82
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	680.5	136100	22.50	22.02
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	665.5	133100	22.50	22.13
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	688	137600	22.50	21.82
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	680.5	136100	22.50	21.93
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	673	134600	22.50	21.95
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	680.5	136100	22.50	22.02
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	680.5	136100	22.50	21.93
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	680.5	136100	22.50	22.01
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	680.5	136100	22.50	20.60
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	680.5	136100	22.50	22.03
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	680.5	136100	22.50	22.06
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	680.5	136100	22.50	21.48
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	680.5	136100	22.50	20.57
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	680.5	136100	22.50	21.91
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	680.5	136100	22.50	21.87
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	680.5	136100	22.50	22.07
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	680.5	136100	22.50	22.03
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	680.5	136100	22.50	22.07
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	680.5	136100	22.50	22.02
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	680.5	136100	22.50	21.98
22	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	693	138600	22.50	21.90
23	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	680.5	136100	22.50	21.99
24	Low	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	668	133600	22.50	22.05
25	High	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	690.5	138100	22.50	21.76
26	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	680.5	136100	22.50	21.96
27	Low	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	670.5	134100	22.50	21.95

No.	Test Freq Description	5G-n41PC2 Normal Power								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	27.50	25.85
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2639	527799	27.50	26.27
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	27.50	26.75
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2455.02	509406	27.50	26.23
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500205	27.50	26.21
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	27.50	26.30
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	27.50	26.36
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	27.50	26.56
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	27.50	26.51
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	27.50	26.18
11	Middle2	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2592.99	518598	27.50	27.15
12	Middle2	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	27.50	25.98
13	Middle2	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	27.50	25.53
14	Middle2	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	27.50	25.52
15	Middle2	30	10	CP-OFDM QPSK	Inner_Full	12_6	2592.99	518598	27.50	25.62
16	Middle2	30	10	CP-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	27.50	25.51
17	Middle2	30	10	CP-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	27.50	25.54
18	Middle2	30	10	CP-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	27.50	25.50
19	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	2592.99	518598	27.50	25.51
20	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	27.50	25.51
21	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	2592.99	518598	27.50	25.55
22	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	27.50	25.57
23	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	2592.99	518598	27.50	25.62
24	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	27.50	25.61
25	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	25_0	2592.99	518598	27.50	25.54
26	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	27.50	26.93
27	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	27.50	26.90
28	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	27.50	26.83
29	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	27.50	26.80
30	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	27.50	26.78
31	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	27.50	25.59
32	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	27.50	25.60
33	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	27.50	26.65
34	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	27.50	26.68

No.	Test Freq Description	5G-n41 LowPC2 Power								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	17.50	16.91
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2639	527799	17.50	16.83
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	17.50	16.92
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2455.02	509406	17.50	16.84
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500205	17.50	16.87
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	17.50	16.62
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	17.50	16.63
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	17.50	16.55
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	17.50	16.59
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	17.50	16.61
11	Middle2	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2592.99	518598	17.50	16.83
12	Middle2	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	17.50	16.76
13	Middle2	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	17.50	16.83
14	Middle2	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	17.50	16.91
15	Middle2	30	10	CP-OFDM QPSK	Inner_Full	12_6	2592.99	518598	17.50	16.80
16	Middle2	30	10	CP-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	17.50	16.82
17	Middle2	30	10	CP-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	17.50	16.88
18	Middle2	30	10	CP-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	17.50	16.88
19	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	2592.99	518598	17.50	16.81
20	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	17.50	16.86
21	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	2592.99	518598	17.50	16.92
22	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	17.50	16.94
23	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	2592.99	518598	17.50	16.91
24	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	17.50	16.93
25	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	25_0	2592.99	518598	17.50	16.85
26	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	17.50	16.72
27	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	17.50	16.81
28	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	17.50	16.74
29	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	17.50	16.82
30	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	17.50	16.75
31	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	17.50	16.75
32	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	17.50	16.20
33	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	17.50	16.57
34	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	17.50	16.58

No.	Test Freq Description	5G-n77 PC2 L3450_3550 Normal Power							Tune up	Power Results
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	28.00	27.75
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	28.00	27.78
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	28.00	27.71
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	28.00	27.54
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	28.00	27.50
6	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3500.01	633334	28.00	27.49
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	28.00	26.51
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	28.00	26.01
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	28.00	26.03
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	135@67	3500.01	633334	28.00	26.01
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	28.00	26.05
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	28.00	26.01
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	28.00	26.04
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	2@271	3500.01	633334	28.00	26.03
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	2@0	3500.01	633334	28.00	26.01
16	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	1@271	3500.01	633334	28.00	27.60
17	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	1@1	3500.01	633334	28.00	27.40
18	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	270@0	3500.01	633334	28.00	26.40
19	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@0	3500.01	633334	28.00	26.02
20	Middle	30	100	DFT-s-OFDM QPSK	Outer_Full	1@272	3500.01	633334	28.00	26.05
23	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	28.00	27.60
24	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	28.00	27.61
25	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	28.00	27.66
26	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	28.00	27.51
27	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	28.00	27.48

No.	Test Freq Description	5G-n77 LPC2 L3450_3550 Low Power							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	18.00	17.70
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	18.00	17.63
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	18.00	17.66
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	18.00	17.33
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	18.00	17.31
6	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3500.01	633334	18.00	17.33
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	18.00	17.34
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	18.00	17.32
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	18.00	17.34
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	135@67	3500.01	633334	18.00	17.36
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	18.00	17.36
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	18.00	17.37
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	18.00	17.33
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	2@271	3500.01	633334	18.00	17.37
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	2@0	3500.01	633334	18.00	17.15
16	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	1@271	3500.01	633334	18.00	17.43
17	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	1@1	3500.01	633334	18.00	17.26
18	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	270@0	3500.01	633334	18.00	17.34
19	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@0	3500.01	633334	18.00	17.27
20	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	1@272	3500.01	633334	18.00	17.47
21	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	18.00	17.15
22	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	18.00	17.14
23	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	18.00	17.63
24	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	18.00	17.46
25	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	18.00	17.51
26	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	18.00	17.32
27	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	18.00	17.29

No.	Test Freq Description	5G-n77 PC2 L3700_3980 Normal Power							Power Results (dBm)	
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	28	27.72
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	28	27.27
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	28	27.64
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	28	27.71
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	28	27.94
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	28	27.83
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	28	27.09
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	28	27.29
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	28	27.33
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	28	27.44
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	28	27.43
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	28	27.64
13	Middle-3	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3822.000	654800	28	27.78
14	Middle-3	30	20	DFT-s-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	28	26.73
15	Middle-3	30	20	DFT-s-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	28	26.11
16	Middle-3	30	20	DFT-s-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	28	26.16
17	Middle-3	30	20	CP-OFDM QPSK	Inner_Full	135@67	3822.000	654800	28	26.11
18	Middle-3	30	20	CP-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	28	26.07
19	Middle-3	30	20	CP-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	28	26.01
20	Middle-3	30	20	CP-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	28	26.02
21	Middle-3	30	20	CP-OFDM 16QAM	Edge_Full_Right	2@271	3822.000	654800	28	26.04
22	Middle-3	30	20	CP-OFDM 16QAM	Edge_Full_Left	2@0	3822.000	654800	28	26.01
23	Middle-3	30	20	CP-OFDM 16QAM	Inner_1RB_Right	1@271	3822.000	654800	28	26.25
24	Middle-3	30	20	CP-OFDM 16QAM	Inner_1RB_Left	1@1	3822.000	654800	28	26.17
25	Middle-3	30	20	CP-OFDM 16QAM	Outer_Full	270@0	3822.000	654800	28	26.81
26	Middle-3	30	20	CP-OFDM 16QAM	Edge_1RB_Left	1@0	3822.000	654800	28	26.10
27	Middle-3	30	20	CP-OFDM 16QAM	Edge_1RB_Right	1@272	3822.000	654800	28	26.05
28	Middle-1	30	40	CP-OFDM 16QAM	Inner_Full	50@25	3918.000	661200	28	26.95
29	Middle-1	30	50	CP-OFDM 16QAM	Inner_Full	64@32	3918.000	661200	28	26.81
30	Middle-1	30	60	CP-OFDM 16QAM	Inner_Full	81@40	3918.000	661200	28	26.72
31	Middle-1	30	80	CP-OFDM 16QAM	Inner_Full	108@54	3918.000	661200	28	26.63
20	Middle-1	30	90	CP-OFDM 16QAM	Inner_Full	120@60	3918.000	661200	28	26.71

No.	Test Freq Description	5G-n77 PC2 H3700_3980 Lower Power							Power Results (dBm)	
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	18	17.66
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	18	17.75
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	18	17.90
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	18	17.93
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	18	17.79
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	18	17.65
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	18	17.31
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	18	17.51
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	18	17.69
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	18	17.57
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	18	17.59
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	18	17.50
13	Middle-3	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3822.000	654800	18	17.60
14	Middle-3	30	20	DFT-s-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	18	17.60
15	Middle-3	30	20	DFT-s-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	18	17.59
16	Middle-3	30	20	DFT-s-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	18	17.64
17	Middle-3	30	20	CP-OFDM QPSK	Inner_Full	135@67	3822.000	654800	18	17.65
18	Middle-3	30	20	CP-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	18	17.67
19	Middle-3	30	20	CP-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	18	17.67
20	Middle-3	30	20	CP-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	18	17.63
21	Middle-3	30	20	CP-OFDM 16QAM	Edge_Full_Right	2@271	3822.000	654800	18	17.58
22	Middle-3	30	20	CP-OFDM 16QAM	Edge_Full_Left	2@0	3822.000	654800	18	17.42
23	Middle-3	30	20	CP-OFDM 16QAM	Inner_1RB_Right	1@271	3822.000	654800	18	17.39
24	Middle-3	30	20	CP-OFDM 16QAM	Inner_1RB_Left	1@1	3822.000	654800	18	17.33
25	Middle-3	30	20	CP-OFDM 16QAM	Outer_Full	270@0	3822.000	654800	18	17.58
26	Middle-3	30	20	CP-OFDM 16QAM	Edge_1RB_Left	1@0	3822.000	654800	18	17.30
27	Middle-3	30	20	CP-OFDM 16QAM	Edge_1RB_Right	1@272	3822.000	654800	18	17.52
28	Middle-1	30	40	CP-OFDM 16QAM	Inner_Full	50@25	3918.000	661200	18	17.74
29	Middle-1	30	50	CP-OFDM 16QAM	Inner_Full	64@32	3918.000	661200	18	17.55
30	Middle-1	30	60	CP-OFDM 16QAM	Inner_Full	81@40	3918.000	661200	18	17.51
31	Middle-1	30	80	CP-OFDM 16QAM	Inner_Full	108@54	3918.000	661200	18	17.39
32	Middle-1	30	90	CP-OFDM 16QAM	Inner_Full	120@60	3918.000	661200	18	17.37

11.5 Wi-Fi and BT Measurement result

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, n, ac then ax) is selected. Therefore the SAR measurements performed for the 802.11n/ac modes, as the lowest order modulation, cover 802.11ax modes.

When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.

According to KDB 248227 D01, simultaneous SAR provisions in KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is<1.6W/kg and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

The maximum output power for WiFi 2.4G – Head(receiver on)

802.11b	Channel\data rate	1Mbps
WLAN2450	11(2462MHz)	11.95
	6(2437(MHz)	11.98
	1(2412MHz)	11.75
802.11g	Channel\data rate	6Mbps
WLAN2450	11(2462MHz)	11.52
	6(2437(MHz)	11.81
	1(2412MHz)	11.47
802.11n-20MHz	Channel\data rate	MCS0
WLAN2450	11(2462MHz)	11.41
	6(2437(MHz)	11.63
	1(2412MHz)	11.28
802.11n-40MHz	Channel\data rate	MCS0
WLAN2450	9(2452MHz)	11.96
	6(2437MHz)	11.97
	3(2422MHz)	11.82
tuneup		12.00

The maximum output power for WiFi 2.4G - Body(receiver off)

802.11b	Channel\data rate	1Mbps
WLAN2450	11(2462MHz)	16.34
	6(2437(MHz)	16.48
	1(2412MHz)	16.21
	tuneup	16.50
802.11g	Channel\data rate	6Mbps
WLAN2450	11(2462MHz)	15.01
	6(2437(MHz)	15.20
	1(2412MHz)	14.96
	tuneup	15.50
802.11n-20MHz	Channel\data rate	MCS0
WLAN2450	11(2462MHz)	14.84
	6(2437(MHz)	15.02
	1(2412MHz)	14.78
	tuneup	15.50
802.11n-40MHz	Channel\data rate	MCS0
WLAN2450	9(2452MHz)	12.53
	6(2437MHz)	12.98
	3(2422MHz)	12.95
tuneup		13.00

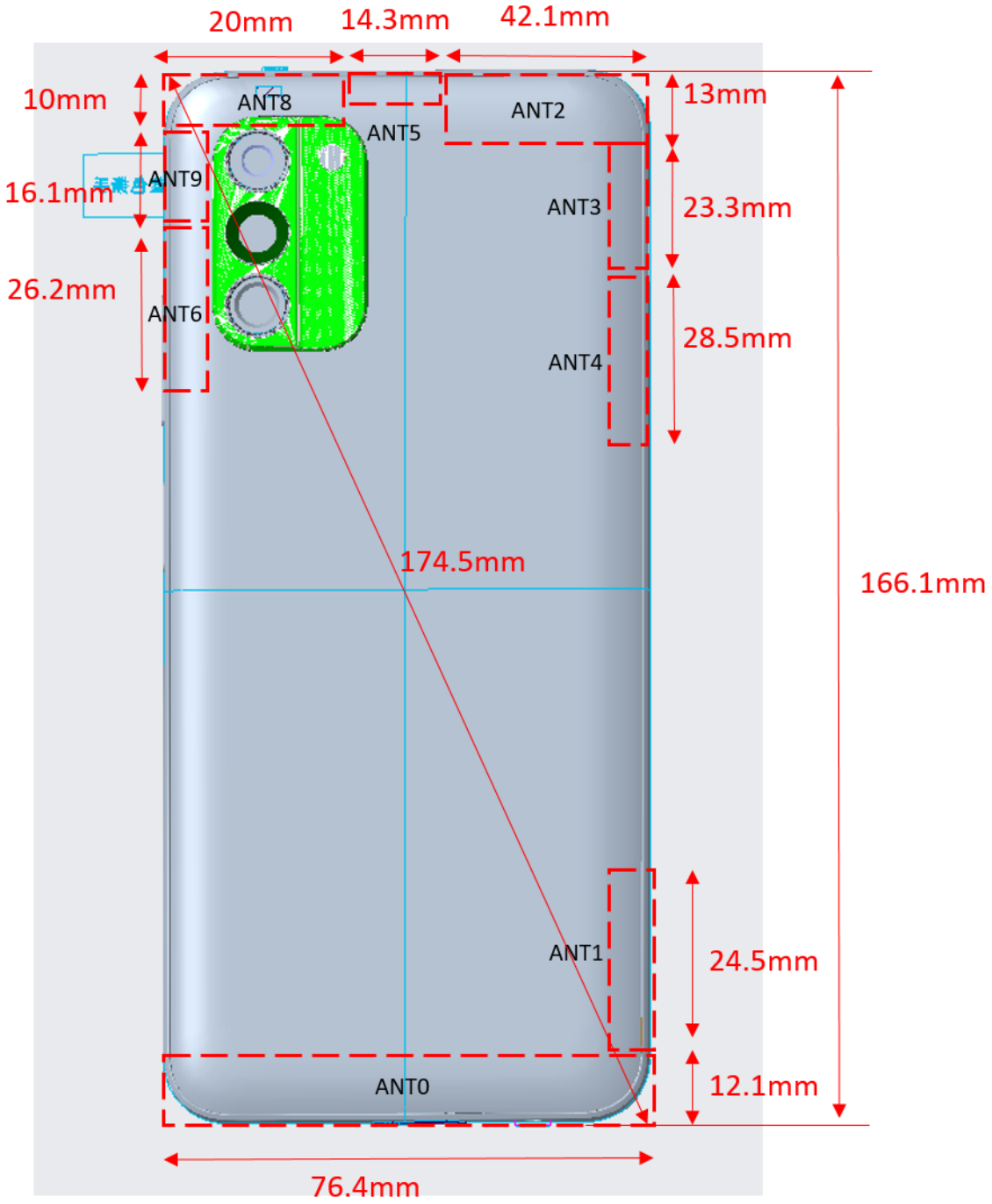
The maximum output power for WiFi 5G- Head(receiver on)

802.11ac(dBm)-80MHz	
Channel\data rate	MCS0
42(5210 MHz)	9.01
58(5290 MHz)	9.15
106(5530 MHz)	9.34
122(5610 MHz)	9.54
138(5690 MHz)	9.84
155(5775 MHz)	9.98
tuneup	11

The maximum output power for WiFi 5G- Body(receiver off)

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	14.71
40(5200 MHz)	14.61
44(5220 MHz)	14.51
48(5240 MHz)	14.57
52(5260 MHz)	14.59
56(5280 MHz)	14.85
60(5300 MHz)	15.44
64(5320 MHz)	15.84
100(5500 MHz)	15.42
104(5520 MHz)	15.47
108(5540 MHz)	15.34
112(5560 MHz)	15.17
116(5580 MHz)	15.11
120(5600 MHz)	15.10
124(5620 MHz)	15.43
128(5640 MHz)	15.88
132(5660 MHz)	16.08
136(5680 MHz)	16.14
140(5700 MHz)	15.76
144(5720 MHz)	15.41
149(5745 MHz)	15.06
153(5765 MHz)	15.36
157(5785 MHz)	15.70
161(5805 MHz)	16.10
165(5825 MHz)	16.47
tuneup	16.5

12 Antenna Location



Ref.	Antenna	Band
ANT0	LB TX+MDRX/ENDC	2G:GSM850/900 3G:W5 4G:B5/8/12/13/14/17/20/26/71 TX/PRX + B1/3/39/40 DRX+B2/4/25/66DRX/ENDC_TX+ B7/38/41DRX 5G:N5/26/71 TX/PRX+N29 PRX+N2/25/66/70 DRX+N41 DRX
ANT1	MH DRX	4G:B7/38/41(ATT B30) DRX2+ B2/4/66 DRX2 5G:N41 DRX2+N25/66 DRX2
ANT2	LB DRX+MHTX/PRX	2G:GSM1800/1900 3G:W1/2/4 4G:B1/2/3/4/25/39/40/66TX/PRX+ B5/8/12/13/14/17/20/26/71DRX 5G:N2/25/66/70 TX/PRX+ N5/25/29/71 DRX
ANT3	UHB MIMO+GPSL5	GPS L5 5G:N77 DRX
ANT4	HB TX/PRX+UHBMIMO	4G:B7/38/41(ATT B30) TX/TRX 5G:N41TX/PRX+N77 DRX2
ANT5	UHB TX/PRX	N77 TX/PRX
ANT6	UHB MIMO+HBPRX2	4G:B41(ATT B30) /B2/4/66 PRX2 5G:N77 PRX2+N25/66/41 PRX2
ANT8	GPS L1+2.4G WiFi	GPS L1+WIFI 2.4G 11b/g/n
ANT9	5G WiFi	WIFI 5G11n/a

12.1 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR v01, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
ANT0	Yes	Yes	Yes	Yes	No	Yes
ANT2	Yes	Yes	Yes	No	Yes	No
ANT4	Yes	Yes	Yes	No	No	No
ANT5	Yes	Yes	No	Yes	Yes	No
ANT8	Yes	Yes	No	Yes	Yes	No
ANT9	Yes	Yes	No	Yes	Yes	No

12.2 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied. The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Standalone SAR test exclusion considerations

Band/Mode	F(GHz)	Position	SAR test exclusion threshold(mW)	RF output power		SAR test exclusion
				dBm	mW	
Bluetooth	2.441	Head	9.60	10	10	No
		Body	19.20	10	10	No
2.4GHz WLAN	2.45	Head	9.58	12	16	No
		Body	19.17	16.5	45	No
5GHz WLAN	5.2	Head	6.58	11	13	No
		Body	13.16	16.5	45	No
	5.3	Head	6.52	11	13	No
		Body	13.03	16.5	45	No
	5.6	Head	6.34	11	13	No
		Body	12.68	16.5	45	No
	5.8	Head	6.23	11	13	No
		Body	12.46	16.5	45	No

13 SAR Test Result

Note:

KDB 447498 D01 General RF Exposure Guidance:

For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor

For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz

≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz

≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 648474 D04 Handset SAR:

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

KDB 941225 D01 SAR test for 3G devices:

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.

When the reported SAR is > 0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.

Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low,Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.

Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.

Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is <1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the

group of overlapping channels should be selected for testing; therefore, the requirement for H, M and L channels may not fully apply.

KDB 248227 D01 SAR meas for 802.11:

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; these are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the initial test position(s) by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The initial test position(s) is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s).

When the reported SAR for the initial test position is:

≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.

> 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.

- For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
- When it is unclear, all equivalent conditions must be tested.

For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required test channels are considered.

- The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.

When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.

When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR

with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

Duty Cycle

Mode	Duty Cycle
Speech for GSM	1:8.3
GPRS&EGPRS 1 Slot	1:8.3
GPRS&EGPRS 2 Slot	1:4
GPRS&EGPRS 3 Slot	1:2.67
GPRS&EGPRS 4 Slot	1:2
WCDMA&LTE FDD	1:1
TDD PC3	1:1.58

Ambient Temperature: 21.5-23.5 ℃ Liquid Temperature: 21.5-23.5 ℃

Note

EUT2:

Article 1: Difference description:

Only supplier different. Detail as the below table:

	First source	Second source	note
LCD	LCE	TXD	Same spec
Camera	Front camra 16M: Holitech Main camera 48M: TXD Ultrawide camera 5M：KingCome Depth camera 2M: C&T	Front camra 16M: DDHL Main camera 48M: HongShi Ultrawide camera 5M: LCE Depth camera 2M: NewSeasons	Same spec
Charge Circuit	SGM	南芯	Same spec
Memory	Longsys	Samsung	Same spec
MIC	AAC	共达	Same spec

13.1 SAR results

ENDC	Left Cheek	Left Tilt	Right Cheek	Right Tilt	Front 10mm	Rear 10mm	Left Edge 10mm	Right Edge 10mm	Bottom Edge 10mm	Top Edge 10mm
DC_66A_N41A	0.43	0.19	0.98	0.29	0.29	0.28	0.3	0.22	0.06	0
DC_12A_N41A	0.3	0.11	0.82	0.22	0.49	0.52	0.42	0.51	0.06	0
DC_12A-66A_n66A	0.42	0.42	0.57	0.53	0.63	0.57	0.34	0.51	0.06	0.24
DC_2A-(n)71AA	0.33	0.18	0.36	0.19	0.42	0.51	0.32	0.488	0.36	0
DC_2A-12A_n66A	0.44	0.45	0.61	0.54	0.41	0.31	0.21	0.018	0.06	0.24
DC_12A-2A_n66A	0.42	0.42	0.57	0.53	0.63	0.57	0.34	0.51	0.06	0.24
DC_2A-13A_n66A	0.44	0.45	0.61	0.54	0.41	0.31	0.21	0.018	0.06	0.24
DC_2A-2A_n41A	0.32	0.14	0.86	0.23	0.27	0.26	0.29	0.018	0.06	0
DC_2A-2A_n66A	0.44	0.45	0.61	0.54	0.41	0.31	0.21	0.018	0.06	0.24
DC_2A-2A_n71A	0.33	0.18	0.36	0.19	0.42	0.51	0.32	0.488	0.36	0
DC_2A-5A_n66A	0.44	0.45	0.61	0.54	0.41	0.31	0.21	0.018	0.06	0.24
DC_66A-2A_n25A	0.73	0.7	0.89	0.8	0.53	0.44	0.25	0.22	0.06	0.33
DC_2A-66A_n25A	0.62	0.65	0.77	0.74	0.51	0.42	0.24	0.018	0.06	0.33
DC_2A-66A_n66A	0.44	0.45	0.61	0.54	0.41	0.31	0.21	0.018	0.06	0.24
DC_66A-2A_n71A	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	0
DC_2A-66A_n71A	0.33	0.18	0.36	0.19	0.42	0.51	0.32	0.488	0.36	0
DC_2C_n41A	0.32	0.14	0.86	0.23	0.27	0.28	0.29	0.018	0.06	0
DC_2C_n71A	0.33	0.18	0.36	0.19	0.42	0.51	0.32	0.488	0.36	0
DC_66A-(n)71AA	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	0
DC_66A-66A_n71A	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	0
DC_66A-66A_n77A	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	0
DC_66C_n71A	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	0
DC_2A-71A_n71A	0.33	0.18	0.36	0.19	0.42	0.51	0.32	0.488	0.36	0
DC_66A-12A_n25A	0.73	0.7	0.89	0.8	0.53	0.44	0.25	0.22	0.06	0.33
DC_12A-66A_n25A	0.6	0.62	0.73	0.73	0.73	0.68	0.37	0.51	0.06	0.33
DC_66A-71A_n71A	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	0

ENDC+WiFi 2.4G	Left Cheek	Left Tilt	Right Cheek	Right Tilt	Front 10mm	Rear 10mm	Left Edge 10mm	Right Edge 10mm	Bottom Edge 10mm	Top Edge 10mm
DC_66A_N41A	0.63	0.37	1.09	0.36	0.42	0.42	0.30	0.34	0.06	0.25
DC_12A_N41A	0.50	0.29	0.93	0.29	0.62	0.66	0.42	0.63	0.06	0.25
DC_12A-66A_n66A	0.62	0.60	0.68	0.60	0.76	0.71	0.34	0.63	0.06	0.49
DC_2A-(n)71AA	0.53	0.36	0.47	0.26	0.55	0.65	0.32	0.61	0.36	0.25
DC_2A-12A_n66A	0.64	0.63	0.72	0.61	0.54	0.45	0.21	0.14	0.06	0.49
DC_12A-2A_n66A	0.62	0.60	0.68	0.60	0.76	0.71	0.34	0.63	0.06	0.49
DC_2A-13A_n66A	0.64	0.63	0.72	0.61	0.54	0.45	0.21	0.14	0.06	0.49
DC_2A-2A_n41A	0.52	0.32	0.97	0.30	0.40	0.40	0.29	0.14	0.06	0.25
DC_2A-2A_n66A	0.64	0.63	0.72	0.61	0.54	0.45	0.21	0.14	0.06	0.49
DC_2A-2A_n71A	0.53	0.36	0.47	0.26	0.55	0.65	0.32	0.61	0.36	0.25
DC_2A-5A_n66A	0.64	0.63	0.72	0.61	0.54	0.45	0.21	0.14	0.06	0.49
DC_66A-2A_n25A	0.93	0.88	1.00	0.87	0.66	0.58	0.25	0.34	0.06	0.58
DC_2A-66A_n25A	0.82	0.83	0.88	0.81	0.64	0.56	0.24	0.14	0.06	0.58
DC_2A-66A_n66A	0.64	0.63	0.72	0.61	0.54	0.45	0.21	0.14	0.06	0.49
DC_66A-2A_n71A	0.64	0.41	0.59	0.32	0.57	0.67	0.33	0.81	0.36	0.25
DC_2A-66A_n71A	0.53	0.36	0.47	0.26	0.55	0.65	0.32	0.61	0.36	0.25
DC_2C_n41A	0.52	0.32	0.97	0.30	0.40	0.42	0.29	0.14	0.06	0.25
DC_2C_n71A	0.53	0.36	0.47	0.26	0.55	0.65	0.32	0.61	0.36	0.25
DC_66A-(n)71AA	0.64	0.41	0.59	0.32	0.57	0.67	0.33	0.81	0.36	0.25
DC_66A-66A_n71A	0.64	0.41	0.59	0.32	0.57	0.67	0.33	0.81	0.36	0.25
DC_66A-66A_n77A	0.64	0.41	0.59	0.32	0.57	0.67	0.33	0.81	0.36	0.25
DC_66C_n71A	0.64	0.41	0.59	0.32	0.57	0.67	0.33	0.81	0.36	0.25
DC_2A-71A_n71A	0.53	0.36	0.47	0.26	0.55	0.65	0.32	0.61	0.36	0.25
DC_66A-12A_n25A	0.93	0.88	1.00	0.87	0.66	0.58	0.25	0.34	0.06	0.58
DC_12A-66A_n25A	0.80	0.80	0.84	0.80	0.86	0.82	0.37	0.63	0.06	0.58
DC_66A-71A_n71A	0.64	0.41	0.59	0.32	0.57	0.67	0.33	0.81	0.36	0.25

ENDC+WiFi 5G	Left Cheek	Left Tilt	Right Cheek	Right Tilt	Front 10mm	Rear 10mm	Left Edge 10mm	Right Edge 10mm	Bottom Edge 10mm	Top Edge 10mm
DC_66A_N41A	0.60	0.32	1.03	0.34	0.41	0.59	0.30	0.66	0.06	0.10
DC_12A_N41A	0.47	0.24	0.87	0.27	0.61	0.83	0.42	0.95	0.06	0.10
DC_12A-66A_n66A	0.59	0.69	0.62	0.58	0.75	0.88	0.34	0.95	0.06	0.34
DC_2A-(n)71AA	0.50	0.45	0.41	0.24	0.54	0.82	0.32	0.93	0.36	0.10
DC_2A-12A_n66A	0.61	0.72	0.66	0.59	0.53	0.62	0.21	0.46	0.06	0.34
DC_12A-2A_n66A	0.59	0.69	0.62	0.58	0.75	0.88	0.34	0.95	0.06	0.34
DC_2A-13A_n66A	0.61	0.72	0.66	0.59	0.53	0.62	0.21	0.46	0.06	0.34
DC_2A-2A_n41A	0.49	0.41	0.91	0.28	0.39	0.57	0.29	0.46	0.06	0.10
DC_2A-2A_n66A	0.61	0.72	0.66	0.59	0.53	0.62	0.21	0.46	0.06	0.34
DC_2A-2A_n71A	0.50	0.45	0.41	0.24	0.54	0.82	0.32	0.93	0.36	0.10
DC_2A-5A_n66A	0.61	0.72	0.66	0.59	0.53	0.62	0.21	0.46	0.06	0.34
DC_66A-2A_n25A	0.90	0.97	0.94	0.85	0.65	0.75	0.25	0.66	0.06	0.43
DC_2A-66A_n25A	0.79	0.92	0.82	0.79	0.63	0.73	0.24	0.46	0.06	0.43
DC_2A-66A_n66A	0.61	0.72	0.66	0.59	0.53	0.62	0.21	0.46	0.06	0.34
DC_66A-2A_n71A	0.61	0.50	0.53	0.30	0.56	0.84	0.33	1.13	0.36	0.10
DC_2A-66A_n71A	0.50	0.45	0.41	0.24	0.54	0.82	0.32	0.93	0.36	0.10
DC_2C_n41A	0.49	0.41	0.91	0.28	0.39	0.59	0.29	0.46	0.06	0.10
DC_2C_n71A	0.50	0.45	0.41	0.24	0.54	0.82	0.32	0.93	0.36	0.10
DC_66A-(n)71AA	0.61	0.50	0.53	0.30	0.56	0.84	0.33	1.13	0.36	0.10
DC_66A-66A_n71A	0.61	0.50	0.53	0.30	0.56	0.84	0.33	1.13	0.36	0.10
DC_66A-66A_n77A	0.61	0.50	0.53	0.30	0.56	0.84	0.33	1.13	0.36	0.10
DC_66C_n71A	0.61	0.50	0.53	0.30	0.56	0.84	0.33	1.13	0.36	0.10
DC_2A-71A_n71A	0.50	0.45	0.41	0.24	0.54	0.82	0.32	0.93	0.36	0.10
DC_66A-12A_n25A	0.90	0.97	0.94	0.85	0.65	0.75	0.25	0.66	0.06	0.43
DC_12A-66A_n25A	0.77	0.89	0.78	0.78	0.85	0.99	0.37	0.95	0.06	0.43
DC_66A-71A_n71A	0.61	0.50	0.53	0.30	0.56	0.84	0.33	1.13	0.36	0.10

Cellular+WiFi 2.4G	Left Cheek	Left Tilt	Right Cheek	Right Tilt	Front 10mm	Rear 10mm	Left Edge 10mm	Right Edge 10mm	Bottom Edge 10mm	Top Edge 10mm
WCDMA1900	0.80	0.92	1.05	1.03	0.71	/	/	/	/	/
WCDMA 850	/	/	/	/	/	0.76	1.09	/	/	/
LTE Band71	/	/	/	/	/	/	/	0.67	/	/
GSM850	/	/	/	/	/	/	/	/	0.38	/
WCDMA1900	/	/	/	/	/	/	/	/	/	0.80

Cellular+WiFi 5G	Left Cheek	Left Tilt	Right Cheek	Right Tilt	Front 10mm	Rear 10mm	Left Edge 10mm	Right Edge 10mm	Bottom Edge 10mm	Top Edge 10mm
WCDMA1900	0.77	0.87	0.99	1.01	0.70	/	/	/	/	/
WCDMA 850	/	/	/	/	/	0.93	1.09	/	/	/
LTE Band71	/	/	/	/	/	/	/	0.99	/	/
GSM850	/	/	/	/	/	/	/	/	0.38	/
WCDMA1900	/	/	/	/	/	/	/	/	/	0.90

ULCA	Left Cheek	Left Tilt	Right Cheek	Right Tilt	Front 10mm	Rear 10mm	Left Edge 10mm	Right Edge 10mm	Bottom Edge 10mm	Top Edge 10mm
CA_2A-12A	0.68	0.76	0.8	0.85	0.9	0.84	0.48	0.51	0.06	0.49
CA_2A-5A	0.74	0.8	0.87	0.88	0.75	0.65	0.38	0.28	0.07	0.49
CA_4A-12A	0.44	0.46	0.55	0.58	0.75	0.66	0.38	0.51	0.06	0.33
CA_4A-5A	0.5	0.5	0.62	0.61	0.6	0.47	0.28	0.28	0.07	0.33
CA_5A-66A	0.5	0.5	0.62	0.61	0.6	0.47	0.28	0.28	0.07	0.33
CA_12A-66A	0.44	0.46	0.55	0.58	0.75	0.66	0.38	0.51	0.06	0.33
CA_2A-4A	0.92	1.14	1.17	1.31	0.93	0.72	0.48	0	0	0.82
CA_2A-66A	0.92	1.14	1.17	1.31	0.93	0.72	0.48	0	0	0.82
CA_66B	0.68	0.84	0.92	1.04	0.78	0.54	0.38	0	0	0.66
CA_66C	0.68	0.84	0.92	1.04	0.78	0.54	0.38	0	0	0.66
CA_41C PC2	0.22	0.1	0.62	0.1	0.48	0.44	0.9	0	0	0
CA_41C PC3	0.25	0.1	0.69	0.12	0.54	0.52	0.99	0	0	0

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	GSM850	190	836.6	/	Left Cheek	0mm	\	32.96	33.50	0.173	0.20	0.126	0.14	-0.20
Head	GSM850	190	836.6	/	Left Tilt	0mm	\	32.96	33.50	0.109	0.12	0.085	0.10	-0.07
Head	GSM850	190	836.6	/	Right Cheek	0mm	\	32.96	33.50	0.202	0.23	0.155	0.18	0.19
Head	GSM850	128	824.2	/	Right Cheek	0mm	\	32.83	33.50	0.182	0.21	0.140	0.16	-0.20
Head	GSM850	251	848.8	/	Right Cheek	0mm	Fig.A1	32.73	33.50	0.266	0.32	0.204	0.24	-0.07
Head	GSM850	190	836.6	/	Right Tilt	0mm	\	32.96	33.50	0.141	0.16	0.107	0.12	0.10
Head	GSM850	251	848.8	/	Right Cheek	0mm	EUT2	32.73	33.50	0.258	0.31	0.184	0.22	0.01
Body	GSM850	190	836.6	GPRS(2TX)	Front	10mm	\	31.14	32.00	0.371	0.45	0.225	0.27	0.03
Body	GSM850	251	848.8	GPRS(2TX)	Rear	10mm	Fig.A2	31.20	32.00	0.586	0.71	0.333	0.40	0.02
Body	GSM850	190	836.6	GPRS(2TX)	Rear	10mm	\	31.14	32.00	0.541	0.66	0.312	0.38	-0.11
Body	GSM850	128	824.2	GPRS(2TX)	Rear	10mm	\	31.04	32.00	0.419	0.52	0.240	0.30	0.09
Body	GSM850	190	836.6	GPRS(2TX)	Left Edge	10mm	\	31.14	32.00	0.104	0.13	0.070	0.08	-0.11
Body	GSM850	190	836.6	GPRS(2TX)	Right Edge	10mm	\	31.14	32.00	0.242	0.29	0.162	0.20	0.09
Body	GSM850	190	836.6	GPRS(2TX)	Bottom Edge	10mm	\	31.14	32.00	0.310	0.38	0.158	0.19	0.02
Body	GSM850	251	848.8	EGPRS(2TX)	Rear	10mm	\	31.13	32.00	0.560	0.68	0.301	0.37	0.11
Body	GSM850	251	848.8	GPRS(2TX)	Rear	10mm	EUT2	31.20	32.00	0.568	0.68	0.301	0.36	-0.07
Head	GSM1900	661	1880	/	Left Cheek	0mm	\	21.89	22.50	0.162	0.19	0.099	0.11	-0.06
Head	GSM1900	661	1880	/	Left Tilt	0mm	\	21.89	22.50	0.196	0.23	0.113	0.13	-0.04
Head	GSM1900	661	1880	/	Right Cheek	0mm	\	21.89	22.50	0.213	0.25	0.127	0.15	-0.10
Head	GSM1900	661	1880	/	Right Tilt	0mm	\	21.89	22.50	0.247	0.28	0.131	0.15	-0.01
Head	GSM1900	810	1909.8	/	Right Tilt	0mm	Fig.A3	21.91	22.50	0.294	0.34	0.150	0.17	0.01
Head	GSM1900	512	1850.2	/	Right Tilt	0mm	\	21.87	22.50	0.268	0.31	0.141	0.16	0.18
Head	GSM1900	810	1909.8	/	Right Tilt	0mm	EUT2	21.91	22.50	0.277	0.32	0.143	0.16	0.19
Body	GSM1900	661	1880	GPRS(1TX)	Front	10mm	\	21.92	22.50	0.066	0.08	0.039	0.04	-0.02
Body	GSM1900	661	1880	GPRS(1TX)	Rear	10mm	\	21.92	22.50	0.075	0.09	0.043	0.05	-0.13
Body	GSM1900	661	1880	GPRS(1TX)	Left Edge	10mm	\	21.92	22.50	0.033	0.04	0.019	0.02	0.14
Body	GSM1900	810	1909.8	GPRS(1TX)	Top Edge	10mm	\	21.92	22.50	0.111	0.13	0.058	0.07	-0.18
Body	GSM1900	661	1880	GPRS(1TX)	Top Edge	10mm	\	21.92	22.50	0.097	0.11	0.051	0.06	-0.02
Body	GSM1900	512	1850.2	GPRS(1TX)	Top Edge	10mm	\	21.91	22.50	0.102	0.12	0.055	0.06	0.02
Body	GSM1900	810	1909.8	EGPRS(1TX)	Top Edge	10mm	\	21.85	22.50	0.106	0.12	0.058	0.07	-0.08
Body	GSM1900	661	1880	GPRS(2TX)	Front	17mm	\	28.00	29.00	0.246	0.31	0.142	0.18	-0.07
Body	GSM1900	810	1909.8	GPRS(2TX)	Front	17mm	Fig.A4	28.05	29.00	0.320	0.40	0.188	0.23	-0.08
Body	GSM1900	512	1850.2	GPRS(2TX)	Front	17mm	\	27.89	29.00	0.238	0.31	0.138	0.18	0.14
Body	GSM1900	661	1880	GPRS(2TX)	Rear	21mm	\	28.00	29.00	0.199	0.25	0.115	0.14	0.20
Body	GSM1900	661	1880	GPRS(2TX)	Left Edge	17mm	\	28.00	29.00	0.137	0.17	0.082	0.10	0.16
Body	GSM1900	661	1880	GPRS(2TX)	Top Edge	21mm	\	28.00	29.00	0.222	0.28	0.128	0.16	0.08
Body	GSM1900	810	1909.8	EGPRS(2TX)	Front	17mm	\	28.05	29.00	0.317	0.39	0.186	0.23	0.20
Body	GSM1900	810	1909.8	GPRS(2TX)	Front	17mm	EUT2	28.05	29.00	0.320	0.40	0.188	0.23	0.09

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	WCDMA1900	9400	1880	RMC	Left Cheek	0mm	\	16.26	17.00	0.510	0.60	0.281	0.33	-0.02
Head	WCDMA1900	9400	1880	RMC	Left Tilt	0mm	\	16.26	17.00	0.625	0.74	0.330	0.39	-0.12
Head	WCDMA1900	9400	1880	RMC	Right Cheek	0mm	\	16.26	17.00	0.607	0.72	0.348	0.41	0.02
Head	WCDMA1900	9400	1880	RMC	Right Tilt	0mm	\	16.26	17.00	0.792	0.94	0.381	0.45	-0.02
Head	WCDMA1900	9262	1852.4	RMC	Right Tilt	0mm	\	16.21	17.00	0.729	0.87	0.350	0.42	-0.09
Head	WCDMA1900	9538	1907.6	RMC	Right Tilt	0mm	Fig.A5	16.22	17.00	0.803	0.96	0.381	0.46	-0.02
Head	WCDMA1900	9538	1907.6	RMC	Right Tilt	0mm	EUT2	16.22	17.00	0.800	0.96	0.374	0.45	-0.18
Body	WCDMA1900	9400	1880	RMC	Front	10mm	\	16.26	17.00	0.170	0.20	0.102	0.12	-0.07
Body	WCDMA1900	9400	1880	RMC	Rear	10mm	\	16.26	17.00	0.210	0.25	0.121	0.14	-0.09
Body	WCDMA1900	9400	1880	RMC	Left Edge	10mm	\	16.26	17.00	0.078	0.09	0.048	0.06	0.10
Body	WCDMA1900	9538	1907.6	RMC	Top Edge	10mm	\	16.22	17.00	0.316	0.38	0.166	0.20	0.08
Body	WCDMA1900	9400	1880	RMC	Top Edge	10mm	\	16.26	17.00	0.286	0.34	0.152	0.18	0.13
Body	WCDMA1900	9262	1852.4	RMC	Top Edge	10mm		16.21	17.00	0.271	0.32	0.144	0.17	-0.04
Body	WCDMA1900	9400	1880	RMC	Front	17mm	Fig.A6	24.22	25.00	0.487	0.58	0.298	0.36	-0.03
Body	WCDMA1900	9538	1907.6	RMC	Front	17mm		24.29	25.00	0.474	0.56	0.291	0.34	0.04
Body	WCDMA1900	9262	1852.4	RMC	Front	17mm		24.15	25.00	0.451	0.55	0.272	0.33	0.09
Body	WCDMA1900	9400	1880	RMC	Rear	21mm	\	24.22	25.00	0.389	0.47	0.235	0.28	0.08
Body	WCDMA1900	9400	1880	RMC	Left Edge	17mm	\	24.22	25.00	0.264	0.32	0.166	0.20	0.04
Body	WCDMA1900	9400	1880	RMC	Top Edge	21mm	\	24.22	25.00	0.461	0.55	0.278	0.33	0.14
Body	WCDMA1900	9400	1880	RMC	Front	17mm	EUT2	24.22	25.00	0.475	0.57	0.280	0.34	-0.11
Head	WCDMA1700	1412	1732.4	RMC	Left Cheek	0mm	\	16.15	17.00	0.389	0.47	0.203	0.25	0.12
Head	WCDMA1700	1412	1732.4	RMC	Left Tilt	0mm	\	16.15	17.00	0.457	0.56	0.227	0.28	0.09
Head	WCDMA1700	1412	1732.4	RMC	Right Cheek	0mm	\	16.15	17.00	0.559	0.68	0.299	0.36	-0.10
Head	WCDMA1700	1312	1712.4	RMC	Right Cheek	0mm	\	16.04	17.00	0.505	0.63	0.272	0.34	-0.06
Head	WCDMA1700	1513	1752.6	RMC	Right Cheek	0mm	Fig.A7	16.09	17.00	0.572	0.71	0.308	0.38	-0.18
Head	WCDMA1700	1412	1732.4	RMC	Right Tilt	0mm	\	16.15	17.00	0.518	0.63	0.247	0.30	-0.09
Head	WCDMA1700	1513	1752.6	RMC	Right Cheek	0mm	EUT2	16.09	17.00	0.572	0.71	0.308	0.38	0.06
Body	WCDMA1700	1412	1732.5	RMC	Front	10mm	\	16.15	17.00	0.135	0.16	0.083	0.10	-0.05
Body	WCDMA1700	1412	1732.5	RMC	Rear	10mm	\	16.15	17.00	0.137	0.17	0.082	0.10	0.19
Body	WCDMA1700	1412	1732.5	RMC	Left Edge	10mm	\	16.15	17.00	0.058	0.07	0.035	0.04	0.04
Body	WCDMA1700	1513	1752.6	RMC	Top Edge	10mm	\	16.09	17.00	0.169	0.21	0.092	0.11	-0.14
Body	WCDMA1700	1412	1732.5	RMC	Top Edge	10mm		16.15	17.00	0.172	0.21	0.094	0.11	-0.09
Body	WCDMA1700	1312	1712.4	RMC	Top Edge	10mm	\	16.04	17.00	0.151	0.19	0.083	0.10	0.12
Body	WCDMA1700	1412	1732.5	RMC	Front	17mm	Fig.A8	24.02	25.00	0.311	0.39	0.199	0.25	-0.17
Body	WCDMA1700	1513	1752.6	RMC	Rear	21mm	\	24.06	25.00	0.263	0.33	0.151	0.19	0.03
Body	WCDMA1700	1412	1732.5	RMC	Rear	21mm	\	24.02	25.00	0.241	0.30	0.140	0.17	-0.08
Body	WCDMA1700	1312	1712.4	RMC	Rear	21mm	\	24.12	25.00	0.209	0.26	0.122	0.15	0.20
Body	WCDMA1700	1412	1732.5	RMC	Left Edge	17mm	\	24.02	25.00	0.204	0.26	0.117	0.15	0.00
Body	WCDMA1700	1513	1752.6	RMC	Top Edge	21mm	\	24.06	25.00	0.296	0.37	0.175	0.22	-0.14
Body	WCDMA1700	1412	1732.5	RMC	Top Edge	21mm		24.02	25.00	0.284	0.36	0.167	0.21	-0.03
Body	WCDMA1700	1312	1712.4	RMC	Top Edge	21mm	\	24.12	25.00	0.249	0.30	0.145	0.18	0.09
Body	WCDMA1700	1412	1732.5	RMC	Front	17mm	EUT2	24.02	25.00	0.278	0.35	0.171	0.21	-0.16
Head	WCDMA 850	4183	836.6	RMC	Left Cheek	0mm	\	24.58	25.00	0.369	0.41	0.257	0.28	-0.09
Head	WCDMA 850	4183	836.6	RMC	Left Tilt	0mm	\	24.58	25.00	0.205	0.23	0.157	0.17	0.20
Head	WCDMA 850	4183	836.6	RMC	Right Cheek	0mm		24.58	25.00	0.371	0.41	0.284	0.31	-0.16
Head	WCDMA 850	4132	826.4	RMC	Right Cheek	0mm	\	24.46	25.00	0.288	0.33	0.222	0.25	0.03
Head	WCDMA 850	4233	846.6	RMC	Right Cheek	0mm	Fig.A9	24.57	25.00	0.384	0.42	0.294	0.32	0.08
Head	WCDMA 850	4183	836.6	RMC	Right Tilt	0mm	\	24.58	25.00	0.261	0.29	0.204	0.22	0.14
Head	WCDMA 850	4233	846.6	RMC	Right Cheek	0mm	EUT2	24.57	25.00	0.365	0.40	0.290	0.32	-0.01
Body	WCDMA 850	4183	836.6	RMC	Front	10mm	\	24.58	25.00	0.331	0.37	0.193	0.21	0.17
Body	WCDMA 850	4233	846.6	RMC	Rear	10mm	Fig.A10	24.57	25.00	0.563	0.62	0.317	0.35	-0.03
Body	WCDMA 850	4183	836.6	RMC	Rear	10mm		24.58	25.00	0.489	0.54	0.280	0.31	0.07
Body	WCDMA 850	4132	826.4	RMC	Rear	10mm	\	24.46	25.00	0.404	0.46	0.232	0.26	0.09
Body	WCDMA 850	4183	836.6	RMC	Left Edge	10mm	\	24.58	25.00	0.142	0.16	0.094	0.10	0.10
Body	WCDMA 850	4183	836.6	RMC	Right Edge	10mm	\	24.58	25.00	0.290	0.32	0.191	0.21	-0.01
Body	WCDMA 850	4183	836.6	RMC	Bottom Edge	10mm	\	24.58	25.00	0.319	0.35	0.165	0.18	-0.17
Body	WCDMA 850	4233	846.6	RMC	Rear	10mm	EUT2	24.57	25.00	0.540	0.60	0.271	0.30	-0.04

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	LTE Band7	21350	2560	1RB-High	Left Cheek	0mm	\	14.28	15.00	0.224	0.26	0.112	0.13	0.14
Head	LTE Band7	21350	2560	1RB-High	Left Tilt	0mm	\	14.28	15.00	0.071	0.08	0.036	0.04	0.12
Head	LTE Band7	21350	2560	1RB-High	Right Cheek	0mm	Fig.A11	14.28	15.00	0.514	0.61	0.220	0.26	0.08
Head	LTE Band7	21350	2560	1RB-High	Right Tilt	0mm	\	14.28	15.00	0.137	0.16	0.066	0.08	0.10
Head	LTE Band7	21350	2560	50RB-Low	Left Cheek	0mm	\	13.39	14.00	0.182	0.21	0.091	0.10	0.16
Head	LTE Band7	21350	2560	50RB-Low	Left Tilt	0mm	\	13.39	14.00	0.057	0.07	0.029	0.03	0.13
Head	LTE Band7	21350	2560	50RB-Low	Right Cheek	0mm	\	13.39	14.00	0.471	0.54	0.198	0.23	0.11
Head	LTE Band7	21350	2560	50RB-Low	Right Tilt	0mm	\	13.39	14.00	0.101	0.12	0.051	0.06	0.13
Head	LTE Band7	21350	2560	1RB-High	Right Cheek	0mm	EUT2	14.28	15.00	0.472	0.56	0.212	0.25	-0.06
Body	LTE Band7	21350	2560	1RB-High	Front	10mm	\	14.28	15.00	0.138	0.16	0.067	0.08	0.20
Body	LTE Band7	21350	2560	1RB-High	Rear	10mm	\	14.28	15.00	0.210	0.25	0.098	0.12	0.00
Body	LTE Band7	21350	2560	1RB-High	Left Edge	10mm		14.28	15.00	0.288	0.34	0.128	0.15	-0.03
Body	LTE Band7	21350	2560	50RB-Low	Front	10mm	\	13.39	14.00	0.114	0.13	0.055	0.06	-0.05
Body	LTE Band7	21350	2560	50RB-Low	Rear	10mm	\	13.39	14.00	0.158	0.18	0.076	0.09	-0.16
Body	LTE Band7	21350	2560	50RB-Low	Left Edge	10mm	\	13.39	14.00	0.231	0.27	0.102	0.12	-0.01
Body	LTE Band7	21350	2560	1RB-Middle	Front	17mm	\	23.09	24.00	0.429	0.53	0.241	0.30	-0.15
Body	LTE Band7	21100	2535	1RB-Middle	Rear	21mm	\	23.09	24.00	0.446	0.55	0.250	0.31	0.20
Body	LTE Band7	21350	2560	1RB-Middle	Rear	21mm	\	23.09	24.00	0.411	0.51	0.231	0.28	0.18
Body	LTE Band7	20850	2510	1RB-Middle	Rear	21mm	\	23.09	24.00	0.408	0.50	0.226	0.28	-0.19
Body	LTE Band7	21350	2560	1RB-Middle	Left Edge	17mm	\	23.09	24.00	0.818	1.01	0.424	0.52	0.19
Body	LTE Band7	20850	2510	1RB-Middle	Left Edge	17mm		23.09	24.00	0.872	1.08	0.451	0.56	0.02
Body	LTE Band7	21100	2535	1RB-Middle	Left Edge	17mm	Fig.A12	23.09	24.00	0.886	1.09	0.458	0.56	-0.07
Body	LTE Band7	21350	2560	50RB-High	Front	17mm	\	22.24	23.00	0.341	0.41	0.193	0.23	-0.07
Body	LTE Band7	21350	2560	50RB-High	Rear	21mm	\	22.24	23.00	0.335	0.40	0.184	0.22	0.12
Body	LTE Band7	21350	2560	50RB-High	Left Edge	17mm	\	22.24	23.00	0.665	0.79	0.344	0.41	0.12
Body	LTE Band7	21100	2535	1RB-Middle	Left Edge	17mm	EUT2	23.09	24.00	0.865	1.07	0.449	0.55	-0.19
Head	LTE Band12	23130	711	1RB-Low	Left Cheek	0mm	Fig.A13	21.46	22.00	0.087	0.10	0.067	0.08	-0.04
Head	LTE Band12	23130	711	1RB-Low	Left Tilt	0mm	\	21.46	22.00	0.032	0.04	0.019	0.02	-0.20
Head	LTE Band12	23130	711	1RB-Low	Right Cheek	0mm	\	21.46	22.00	0.080	0.09	0.069	0.08	0.12
Head	LTE Band12	23130	711	1RB-Low	Right Tilt	0mm	\	21.46	22.00	0.057	0.06	0.047	0.05	0.09
Head	LTE Band12	23130	711	25RB-Low	Left Cheek	0mm	\	20.40	21.00	0.057	0.07	0.043	0.05	-0.09
Head	LTE Band12	23130	711	25RB-Low	Left Tilt	0mm	\	20.40	21.00	0.028	0.03	0.017	0.02	0.18
Head	LTE Band12	23130	711	25RB-Low	Right Cheek	0mm	\	20.40	21.00	0.057	0.07	0.047	0.05	-0.13
Head	LTE Band12	23130	711	25RB-Low	Right Tilt	0mm	\	20.40	21.00	0.025	0.03	0.016	0.02	-0.03
Head	LTE Band12	23130	711	1RB-Low	Left Cheek	0mm	EUT2	21.46	22.00	0.074	0.08	0.054	0.06	0.00
Body	LTE Band12	23130	711	1RB-Low	Front	10mm	\	21.46	22.00	0.132	0.15	0.101	0.11	0.11
Body	LTE Band12	23130	711	1RB-Low	Rear	10mm	\	21.46	22.00	0.184	0.21	0.142	0.16	0.19
Body	LTE Band12	23130	711	1RB-Low	Left Edge	10mm	\	21.46	22.00	0.115	0.13	0.081	0.09	-0.15
Body	LTE Band12	23130	711	1RB-Low	Right Edge	10mm		21.46	22.00	0.188	0.21	0.131	0.15	0.10
Body	LTE Band12	23130	711	1RB-Low	Bottom Edge	10mm	\	21.46	22.00	0.101	0.11	0.050	0.06	-0.02
Body	LTE Band12	23130	711	25RB-Low	Front	10mm	\	20.40	21.00	0.101	0.12	0.075	0.09	0.14
Body	LTE Band12	23130	711	25RB-Low	Rear	10mm	\	20.40	21.00	0.144	0.17	0.110	0.13	0.13
Body	LTE Band12	23130	711	25RB-Low	Left Edge	10mm	\	20.40	21.00	0.090	0.10	0.062	0.07	-0.13
Body	LTE Band12	23130	711	25RB-Low	Right Edge	10mm	\	20.40	21.00	0.155	0.18	0.109	0.12	-0.07
Body	LTE Band12	23130	711	25RB-Low	Bottom Edge	10mm	\	20.40	21.00	0.088	0.10	0.046	0.05	0.20
Body	LTE Band12	23130	711	1RB-Low	Front	17mm	\	24.46	25.00	0.322	0.36	0.246	0.28	0.04
Body	LTE Band12	23130	711	1RB-Low	Rear	21mm	\	24.46	25.00	0.345	0.39	0.263	0.30	-0.02
Body	LTE Band12	23130	711	1RB-Low	Left Edge	17mm	\	24.46	25.00	0.171	0.19	0.120	0.14	0.13
Body	LTE Band12	23130	711	1RB-Low	Right Edge	10mm	Fig.A14	24.46	25.00	0.452	0.51	0.317	0.36	0.10
Body	LTE Band12	23130	711	1RB-Low	Bottom Edge	21mm	\	24.46	25.00	0.055	0.06	0.035	0.04	-0.15
Body	LTE Band12	23130	711	25RB-Low	Front	17mm	\	23.37	24.00	0.265	0.31	0.201	0.23	0.17
Body	LTE Band12	23130	711	25RB-Low	Rear	21mm	\	23.37	24.00	0.279	0.32	0.212	0.25	0.18
Body	LTE Band12	23130	711	25RB-Low	Left Edge	17mm	\	23.37	24.00	0.135	0.16	0.097	0.11	-0.03
Body	LTE Band12	23130	711	25RB-Low	Right Edge	10mm	\	23.37	24.00	0.370	0.43	0.259	0.30	-0.12
Body	LTE Band12	23130	711	25RB-Low	Bottom Edge	21mm	\	23.37	24.00	0.054	0.06	0.034	0.04	-0.12
Body	LTE Band12	23130	711	1RB-Low	Right Edge	10mm	EUT2	24.46	25.00	0.430	0.49	0.301	0.34	-0.19

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	LTE Band13	23230	782	1RB-Middle	Left Cheek	0mm	Fig.A15	21.34	22.00	0.109	0.13	0.083	0.10	0.13
Head	LTE Band13	23230	782	1RB-Middle	Left Tilt	0mm	\	21.34	22.00	0.064	0.07	0.051	0.06	0.00
Head	LTE Band13	23230	782	1RB-Middle	Right Cheek	0mm	\	21.34	22.00	0.106	0.12	0.085	0.10	-0.12
Head	LTE Band13	23230	782	1RB-Middle	Right Tilt	0mm	\	21.34	22.00	0.071	0.08	0.058	0.07	0.14
Head	LTE Band13	23230	782	25RB-Middle	Left Cheek	0mm	\	20.42	21.00	0.077	0.09	0.058	0.07	-0.11
Head	LTE Band13	23230	782	25RB-Middle	Left Tilt	0mm	\	20.42	21.00	0.047	0.05	0.037	0.04	0.01
Head	LTE Band13	23230	782	25RB-Middle	Right Cheek	0mm	\	20.42	21.00	0.082	0.09	0.066	0.08	0.17
Head	LTE Band13	23230	782	25RB-Middle	Right Tilt	0mm	\	20.42	21.00	0.054	0.06	0.045	0.05	0.17
Head	LTE Band13	23230	782	1RB-Middle	Left Cheek	0mm	EUT2	21.34	22.00	0.091	0.11	0.074	0.09	0.03
Body	LTE Band13	23230	782	1RB-High	Front	10mm	\	21.34	22.00	0.106	0.12	0.083	0.10	-0.14
Body	LTE Band13	23230	782	1RB-High	Rear	10mm		21.34	22.00	0.159	0.19	0.120	0.14	0.16
Body	LTE Band13	23230	782	1RB-High	Left Edge	10mm	\	21.34	22.00	0.089	0.10	0.075	0.09	-0.13
Body	LTE Band13	23230	782	1RB-High	Right Edge	10mm	\	21.34	22.00	0.153	0.18	0.129	0.15	-0.07
Body	LTE Band13	23230	782	1RB-High	Bottom Edge	10mm	\	21.34	22.00	0.126	0.15	0.077	0.09	0.11
Body	LTE Band13	23230	782	25RB-Middle	Front	10mm	\	20.42	21.00	0.080	0.09	0.074	0.08	-0.04
Body	LTE Band13	23230	782	25RB-Middle	Rear	10mm	\	20.42	21.00	0.124	0.14	0.107	0.12	-0.14
Body	LTE Band13	23230	782	25RB-Middle	Left Edge	10mm	\	20.42	21.00	0.068	0.08	0.057	0.07	0.19
Body	LTE Band13	23230	782	25RB-Middle	Right Edge	10mm	\	20.42	21.00	0.116	0.13	0.100	0.11	-0.09
Body	LTE Band13	23230	782	25RB-Middle	Bottom Edge	10mm	\	20.42	21.00	0.090	0.10	0.055	0.06	-0.05
Body	LTE Band13	23230	782	1RB-Middle	Front	17mm	\	24.37	25.00	0.276	0.32	0.214	0.25	-0.09
Body	LTE Band13	23230	782	1RB-Middle	Rear	21mm		24.37	25.00	0.280	0.32	0.214	0.25	0.11
Body	LTE Band13	23230	782	1RB-Middle	Left Edge	17mm	\	24.37	25.00	0.127	0.15	0.091	0.11	-0.12
Body	LTE Band13	23230	782	1RB-Middle	Right Edge	10mm	Fig.A16	24.37	25.00	0.391	0.45	0.273	0.32	-0.17
Body	LTE Band13	23230	782	1RB-Middle	Bottom Edge	21mm	\	24.37	25.00	0.075	0.09	0.048	0.06	0.00
Body	LTE Band13	23230	782	25RB-Middle	Front	17mm	\	23.48	24.00	0.236	0.27	0.176	0.20	-0.20
Body	LTE Band13	23230	782	25RB-Middle	Rear	21mm	\	23.48	24.00	0.228	0.26	0.174	0.20	0.02
Body	LTE Band13	23230	782	25RB-Middle	Left Edge	17mm	\	23.48	24.00	0.105	0.12	0.076	0.09	-0.13
Body	LTE Band13	23230	782	25RB-Middle	Right Edge	10mm	\	23.48	24.00	0.312	0.35	0.219	0.25	0.19
Body	LTE Band13	23230	782	25RB-Middle	Bottom Edge	21mm	\	23.48	24.00	0.058	0.07	0.037	0.04	-0.10
Body	LTE Band13	23230	782	1RB-Middle	Right Edge	10mm	EUT2	24.37	25.00	0.380	0.44	0.260	0.30	-0.05
Head	LTE Band25	26590	1905	1RB-Low	Left Cheek	0mm		16.48	17.00	0.500	0.56	0.262	0.30	0.13
Head	LTE Band25	26590	1905	1RB-Low	Left Tilt	0mm	\	16.48	17.00	0.623	0.70	0.312	0.35	-0.09
Head	LTE Band25	26590	1905	1RB-Low	Right Cheek	0mm	\	16.48	17.00	0.616	0.69	0.321	0.36	-0.19
Head	LTE Band25	26590	1905	1RB-Low	Right Tilt	0mm	Fig.A17	16.48	17.00	0.685	0.77	0.349	0.39	-0.20
Head	LTE Band25	26365	1882.5	50RB-Middle	Left Cheek	0mm	\	15.35	16.00	0.386	0.45	0.205	0.24	-0.12
Head	LTE Band25	26365	1882.5	50RB-Middle	Left Tilt	0mm	\	15.35	16.00	0.465	0.54	0.234	0.27	-0.13
Head	LTE Band25	26365	1882.5	50RB-Middle	Right Cheek	0mm	\	15.35	16.00	0.461	0.54	0.258	0.30	0.00
Head	LTE Band25	26365	1882.5	50RB-Middle	Right Tilt	0mm	\	15.35	16.00	0.623	0.72	0.286	0.33	0.15
Head	LTE Band25	26590	1905	1RB-Low	Right Tilt	0mm	EUT2	16.48	17.00	0.666	0.75	0.320	0.36	0.03
Body	LTE Band25	26590	1905	1RB-Low	Front	10mm	\	16.48	17.00	0.165	0.19	0.096	0.11	-0.20
Body	LTE Band25	26590	1905	1RB-Low	Rear	10mm		16.48	17.00	0.201	0.23	0.112	0.13	-0.17
Body	LTE Band25	26590	1905	1RB-Low	Left Edge	10mm	\	16.48	17.00	0.068	0.08	0.040	0.05	-0.17
Body	LTE Band25	26590	1905	1RB-Low	Top Edge	10mm		16.48	17.00	0.278	0.31	0.147	0.17	-0.18
Body	LTE Band25	26365	1882.5	50RB-Middle	Front	10mm	\	15.35	16.00	0.141	0.16	0.083	0.10	0.10
Body	LTE Band25	26365	1882.5	50RB-Middle	Rear	10mm	\	15.35	16.00	0.164	0.19	0.093	0.11	-0.17
Body	LTE Band25	26365	1882.5	50RB-Middle	Left Edge	10mm	\	15.35	16.00	0.059	0.07	0.036	0.04	0.19
Body	LTE Band25	26365	1882.5	50RB-Middle	Top Edge	10mm	\	15.35	16.00	0.216	0.25	0.112	0.13	-0.11
Body	LTE Band25	26590	1905	1RB-Middle	Front	17mm	Fig.A18	24.31	25.00	0.462	0.54	0.282	0.33	-0.19
Body	LTE Band25	26590	1905	1RB-Middle	Rear	21mm		24.31	25.00	0.387	0.45	0.237	0.28	-0.18
Body	LTE Band25	26590	1905	1RB-Middle	Left Edge	17mm	\	24.31	25.00	0.246	0.29	0.157	0.18	-0.06
Body	LTE Band25	26590	1905	1RB-Middle	Top Edge	21mm	\	24.31	25.00	0.419	0.49	0.252	0.30	0.00
Body	LTE Band25	26140	1860	50RB-Middle	Front	17mm	\	23.51	24.00	0.387	0.43	0.234	0.26	0.04
Body	LTE Band25	26140	1860	50RB-Middle	Rear	21mm	\	23.51	24.00	0.307	0.34	0.187	0.21	-0.10
Body	LTE Band25	26140	1860	50RB-Middle	Left Edge	17mm	\	23.51	24.00	0.198	0.22	0.124	0.14	-0.06
Body	LTE Band25	26140	1860	50RB-Middle	Top Edge	21mm	\	23.51	24.00	0.329	0.37	0.199	0.22	-0.19
Body	LTE Band25	26590	1905	1RB-Middle	Front	17mm	EUT2	24.31	25.00	0.442	0.52	0.269	0.32	0.05
Head	LTE Band26	26775	822.5	1RB-Low	Left Cheek	0mm	\	23.36	25.00	0.104	0.15	0.078	0.11	-0.16
Head	LTE Band26	26775	822.5	1RB-Low	Left Tilt	0mm	\	23.36	25.00	0.055	0.08	0.043	0.06	0.20
Head	LTE Band26	26775	822.5	1RB-Low	Right Cheek	0mm	Fig.A19	23.36	25.00	0.111	0.16	0.085	0.12	-0.12
Head	LTE Band26	26775	822.5	1RB-Low	Right Tilt	0mm	\	23.36	25.00	0.059	0.09	0.046	0.07	0.19
Head	LTE Band26	26775	822.5	36RB-Low	Left Cheek	0mm	\	22.40	24.00	0.091	0.13	0.064	0.09	-0.07
Head	LTE Band26	26775	822.5	36RB-Low	Left Tilt	0mm	\	22.40	24.00	0.045	0.06	0.034	0.05	0.00
Head	LTE Band26	26775	822.5	36RB-Low	Right Cheek	0mm	\	22.40	24.00	0.076	0.11	0.059	0.09	0.20
Head	LTE Band26	26775	822.5	36RB-Low	Right Tilt	0mm	\	22.40	24.00	0.048	0.07	0.037	0.05	0.01
Head	LTE Band26	26775	822.5	1RB-Low	Right Cheek	0mm	EUT2	23.36	25.00	0.095	0.14	0.075	0.11	0.09
Body	LTE Band26	26775	822.5	1RB-Low	Front	10mm	\	23.36	25.00	0.088	0.13	0.053	0.08	0.03
Body	LTE Band26	26775	822.5	1RB-Low	Rear	10mm		23.36	25.00	0.131	0.19	0.077	0.11	0.16
Body	LTE Band26	26775	822.5	1RB-Low	Left Edge	10mm	\	23.36	25.00	0.055	0.08	0.036	0.05	-0.14
Body	LTE Band26	26965	841.5	1RB-Low	Right Edge	10mm	Fig.A20	23.36	25.00	0.240	0.35	0.166	0.24	-0.16
Body	LTE Band26	26775	822.5	1RB-Low	Bottom Edge	10mm	\	23.36	25.00	0.081	0.12	0.039	0.06	-0.16
Body	LTE Band26	26775	822.5	36RB-Low	Front	10mm	\	22.40	24.00	0.075	0.11	0.045	0.07	0.11
Body	LTE Band26	26775	822.5	36RB-Low	Rear	10mm	\	22.40	24.00	0.110	0.16	0.065	0.09	-0.08
Body	LTE Band26	26775	822.5	36RB-Low	Left Edge	10mm	\	22.40	24.00	0.045	0.06	0.029	0.04	-0.06
Body	LTE Band26	26775	822.5	36RB-Low	Right Edge	10mm	\	22.40	24.00	0.071	0.10	0.047	0.07	-0.07
Body	LTE Band26	26775	822.5	36RB-Low	Bottom Edge	10mm	\	22.40	24.00	0.070	0.10	0.034	0.05	0.13
Body	LTE Band26	26965	841.5	1RB-Low	Right Edge	10mm	EUT2	23.36	25.00	0.221	0.32	0.149	0.22	0.01

RF Exposure Conditions	Frequency Band	41099	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	LTE Band66	41100	1720	1RB-Middle	Left Cheek	0mm	\	16.38	17.00	0.278	0.32	0.174	0.20	-0.18
Head	LTE Band66	41101	1720	1RB-Middle	Left Tilt	0mm	\	16.38	17.00	0.344	0.40	0.206	0.24	0.08
Head	LTE Band66	41102	1720	1RB-Middle	Right Cheek	0mm		16.38	17.00	0.374	0.43	0.233	0.27	-0.12
Head	LTE Band66	41103	1720	1RB-Middle	Right Tilt	0mm	Fig.A25	16.38	17.00	0.419	0.48	0.214	0.25	0.11
Head	LTE Band66	41104	1745	50RB-Middle	Left Cheek	0mm	\	15.31	16.00	0.252	0.30	0.151	0.18	-0.19
Head	LTE Band66	41105	1745	50RB-Middle	Left Tilt	0mm	\	15.31	16.00	0.321	0.38	0.184	0.22	0.00
Head	LTE Band66	41106	1745	50RB-Middle	Right Cheek	0mm	\	15.31	16.00	0.333	0.39	0.206	0.24	-0.15
Head	LTE Band66	41107	1745	50RB-Middle	Right Tilt	0mm	\	15.31	16.00	0.368	0.43	0.183	0.21	0.18
Head	LTE Band66	41108	1720	1RB-Middle	Right Tilt	0mm	EUT2	16.38	17.00	0.402	0.46	0.194	0.22	0.08
Body	LTE Band66	41109	1720	1RB-Middle	Front	10mm	\	16.38	17.00	0.118	0.14	0.074	0.08	-0.09
Body	LTE Band66	41110	1720	1RB-Middle	Rear	10mm	\	16.38	17.00	0.132	0.15	0.077	0.09	-0.06
Body	LTE Band66	41111	1720	1RB-Middle	Left Edge	10mm	\	16.38	17.00	0.052	0.06	0.031	0.04	0.07
Body	LTE Band66	41112	1720	1RB-Middle	Top Edge	10mm		16.38	17.00	0.157	0.18	0.086	0.10	-0.11
Body	LTE Band66	41113	1745	50RB-Middle	Front	10mm	\	15.31	16.00	0.110	0.13	0.068	0.08	-0.14
Body	LTE Band66	41114	1745	50RB-Middle	Rear	10mm	\	15.31	16.00	0.122	0.14	0.070	0.08	-0.10
Body	LTE Band66	41115	1745	50RB-Middle	Left Edge	10mm	\	15.31	16.00	0.047	0.05	0.027	0.03	0.01
Body	LTE Band66	41116	1745	50RB-Middle	Top Edge	10mm	\	15.31	16.00	0.144	0.17	0.078	0.09	0.04
Body	LTE Band66	41117	1720	1RB-Low	Front	17mm	Fig.A26	23.21	25.00	0.256	0.39	0.164	0.25	0.04
Body	LTE Band66	41118	1720	1RB-Low	Rear	21mm	\	23.21	25.00	0.177	0.27	0.113	0.17	0.13
Body	LTE Band66	41119	1720	1RB-Low	Left Edge	17mm	\	23.21	25.00	0.092	0.14	0.057	0.09	0.20
Body	LTE Band66	41120	1720	1RB-Low	Top Edge	21mm	\	23.21	25.00	0.216	0.33	0.124	0.19	0.09
Body	LTE Band66	41121	1745	50RB-Middle	Front	17mm	\	22.24	24.00	0.228	0.34	0.134	0.20	-0.14
Body	LTE Band66	41122	1745	50RB-Middle	Rear	21mm	\	22.24	24.00	0.160	0.24	0.092	0.14	-0.01
Body	LTE Band66	41123	1745	50RB-Middle	Left Edge	17mm	\	22.24	24.00	0.126	0.19	0.074	0.11	0.03
Body	LTE Band66	41124	1745	50RB-Middle	Top Edge	21mm	\	22.24	24.00	0.189	0.28	0.109	0.16	0.11
Body	LTE Band66	41125	1720	1RB-Low	Front	17mm	EUT2	23.21	25.00	0.251	0.38	0.157	0.24	0.03
Head	LTE Band71	41126	673	1RB-Low	Left Cheek	0mm	Fig.A27	21.19	22.00	0.089	0.11	0.069	0.08	-0.11
Head	LTE Band71	41127	673	1RB-Low	Left Tilt	0mm	\	21.19	22.00	0.048	0.06	0.039	0.05	0.13
Head	LTE Band71	41128	673	1RB-Low	Right Cheek	0mm	\	21.19	22.00	0.083	0.10	0.068	0.08	0.16
Head	LTE Band71	41129	673	1RB-Low	Right Tilt	0mm	\	21.19	22.00	0.056	0.07	0.045	0.05	0.12
Head	LTE Band71	41130	688	50RB-Middle	Left Cheek	0mm	\	20.30	21.00	0.085	0.10	0.066	0.08	0.20
Head	LTE Band71	41131	688	50RB-Middle	Left Tilt	0mm	\	20.30	21.00	0.000	0.00	0.000	0.00	-0.18
Head	LTE Band71	41132	688	50RB-Middle	Right Cheek	0mm	\	20.30	21.00	0.075	0.09	0.061	0.07	-0.19
Head	LTE Band71	41133	688	50RB-Middle	Right Tilt	0mm	\	20.30	21.00	0.045	0.05	0.037	0.04	-0.19
Head	LTE Band71	41134	673	1RB-Low	Left Cheek	0mm	EUT2	21.19	22.00	0.081	0.10	0.066	0.08	0.11
Body	LTE Band71	41135	673	1RB-Low	Front	10mm	\	21.19	22.00	0.114	0.14	0.087	0.10	0.09
Body	LTE Band71	41136	673	1RB-Low	Rear	10mm		21.19	22.00	0.158	0.19	0.122	0.15	0.00
Body	LTE Band71	41137	673	1RB-Low	Left Edge	10mm	\	21.19	22.00	0.119	0.14	0.084	0.10	0.14
Body	LTE Band71	41138	673	1RB-Low	Right Edge	10mm		21.19	22.00	0.201	0.24	0.141	0.17	-0.12
Body	LTE Band71	41139	673	1RB-Low	Bottom Edge	10mm	\	21.19	22.00	0.072	0.09	0.039	0.05	0.03
Body	LTE Band71	41140	688	50RB-Middle	Front	10mm	\	20.30	21.00	0.108	0.13	0.083	0.10	0.10
Body	LTE Band71	41141	688	50RB-Middle	Rear	10mm	\	20.30	21.00	0.144	0.17	0.111	0.13	0.16
Body	LTE Band71	41142	688	50RB-Middle	Left Edge	10mm	\	20.30	21.00	0.101	0.12	0.071	0.08	-0.07
Body	LTE Band71	41143	688	50RB-Middle	Right Edge	10mm	\	20.30	21.00	0.180	0.21	0.128	0.15	-0.10
Body	LTE Band71	41144	688	50RB-Middle	Bottom Edge	10mm	\	20.30	21.00	0.094	0.11	0.049	0.06	0.14
Body	LTE Band71	41145	688	1RB-Low	Front	17mm	\	24.21	25.00	0.295	0.35	0.225	0.27	0.20
Body	LTE Band71	41146	688	1RB-Low	Rear	21mm		24.21	25.00	0.304	0.36	0.233	0.28	-0.14
Body	LTE Band71	41147	688	1RB-Low	Left Edge	17mm	\	24.21	25.00	0.138	0.17	0.100	0.12	0.17
Body	LTE Band71	41148	688	1RB-Low	Right Edge	10mm	Fig.A28	24.21	25.00	0.462	0.55	0.325	0.39	0.09
Body	LTE Band71	41149	688	1RB-Low	Bottom Edge	21mm	\	24.21	25.00	0.062	0.07	0.038	0.05	0.10
Body	LTE Band71	41150	688	50RB-Middle	Front	17mm	\	23.28	24.00	0.230	0.27	0.176	0.21	0.13
Body	LTE Band71	41151	688	50RB-Middle	Rear	21mm	\	23.28	24.00	0.242	0.29	0.183	0.22	-0.07
Body	LTE Band71	41152	688	50RB-Middle	Left Edge	17mm	\	23.28	24.00	0.138	0.16	0.099	0.12	-0.17
Body	LTE Band71	41153	688	50RB-Middle	Right Edge	10mm	\	23.28	24.00	0.364	0.43	0.257	0.30	0.19
Body	LTE Band71	41154	688	50RB-Middle	Bottom Edge	21mm	\	23.28	24.00	0.056	0.07	0.034	0.04	0.11
Body	LTE Band71	41155	688	1RB-Low	Right Edge	10mm	EUT2	24.21	25.00	0.460	0.55	0.312	0.37	0.10

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	LTE Band2 ANT0	18700	1860	1RB-Low	Left Cheek	0mm	\	24.50	25.00	0.110	0.12	0.061	0.07	-0.18
Head	LTE Band2 ANT0	18700	1860	1RB-Low	Left Tilt	0mm	\	24.50	25.00	0.058	0.07	0.033	0.04	0.04
Head	LTE Band2 ANT0	18700	1860	1RB-Low	Right Cheek	0mm	Fig.A45	24.50	25.00	0.117	0.13	0.066	0.07	-0.13
Head	LTE Band2 ANT0	18700	1860	1RB-Low	Right Tilt	0mm	\	24.50	25.00	0.062	0.07	0.036	0.04	-0.06
Head	LTE Band2 ANT0	18700	1860	36RB-Low	Left Cheek	0mm	\	23.48	24.00	0.096	0.11	0.050	0.06	0.09
Head	LTE Band2 ANT0	18700	1860	36RB-Low	Left Tilt	0mm	\	23.48	24.00	0.047	0.05	0.026	0.03	0.19
Head	LTE Band2 ANT0	18700	1860	36RB-Low	Right Cheek	0mm	\	23.48	24.00	0.081	0.09	0.046	0.05	-0.07
Head	LTE Band2 ANT0	18700	1860	36RB-Low	Right Tilt	0mm	\	23.48	24.00	0.050	0.06	0.029	0.03	0.17
Head	LTE Band2 ANT0	18700	1860	1RB-Low	Right Cheek	0mm	EUT2	24.50	25.00	0.100	0.11	0.058	0.07	0.16
Body	LTE Band2 ANT0	18700	1860	1RB-Low	Front	10mm	\	24.50	25.00	0.120	0.14	0.087	0.10	-0.09
Body	LTE Band2 ANT0	18700	1860	1RB-Low	Rear	10mm		24.50	25.00	0.113	0.13	0.081	0.09	0.11
Body	LTE Band2 ANT0	18700	1860	1RB-Low	Left Edge	10mm	\	24.50	25.00	0.050	0.06	0.034	0.04	0.19
Body	LTE Band2 ANT0	18700	1860	1RB-Low	Right Edge	10mm	Fig.A46	24.50	25.00	0.159	0.18	0.107	0.12	-0.01
Body	LTE Band2 ANT0	18700	1860	1RB-Low	Bottom Edge	10mm	\	24.50	25.00	0.042	0.05	0.025	0.03	-0.05
Body	LTE Band2 ANT0	18700	1860	50RB-Low	Front	10mm	\	23.48	24.00	0.080	0.09	0.059	0.07	0.08
Body	LTE Band2 ANT0	18700	1860	50RB-Low	Rear	10mm	\	23.48	24.00	0.074	0.08	0.055	0.06	0.04
Body	LTE Band2 ANT0	18700	1860	50RB-Low	Left Edge	10mm	\	23.48	24.00	0.035	0.04	0.025	0.03	-0.10
Body	LTE Band2 ANT0	18700	1860	50RB-Low	Right Edge	10mm	\	23.48	24.00	0.106	0.12	0.071	0.08	0.18
Body	LTE Band2 ANT0	18700	1860	50RB-Low	Bottom Edge	10mm	\	23.48	24.00	0.056	0.06	0.028	0.03	0.03
Body	LTE Band2 ANT0	18700	1860	1RB-Low	Right Edge	10mm	EUT2	24.50	25.00	0.147	0.16	0.096	0.11	0.16
Head	LTE Band66 ANT0	132072	1720	1RB-Low	Left Cheek	0mm	\	24.49	25.00	0.205	0.23	0.101	0.11	-0.06
Head	LTE Band66 ANT0	132072	1720	1RB-Low	Left Tilt	0mm	\	24.49	25.00	0.108	0.12	0.055	0.06	-0.19
Head	LTE Band66 ANT0	132072	1720	1RB-Low	Right Cheek	0mm	Fig.A47	24.49	25.00	0.219	0.25	0.109	0.12	-0.08
Head	LTE Band66 ANT0	132072	1720	1RB-Low	Right Tilt	0mm	\	24.49	25.00	0.117	0.13	0.059	0.07	0.10
Head	LTE Band66 ANT0	26775	1770	50RB-Middle	Left Cheek	0mm	\	23.62	24.00	0.179	0.20	0.082	0.09	0.07
Head	LTE Band66 ANT0	26775	1770	50RB-Middle	Left Tilt	0mm	\	23.62	24.00	0.088	0.10	0.043	0.05	0.14
Head	LTE Band66 ANT0	26775	1770	50RB-Middle	Right Cheek	0mm	\	23.62	24.00	0.151	0.16	0.075	0.08	-0.08
Head	LTE Band66 ANT0	26775	1770	50RB-Middle	Right Tilt	0mm	\	23.62	24.00	0.094	0.10	0.048	0.05	-0.01
Head	LTE Band66 ANT0	132072	1720	1RB-Low	Right Cheek	0mm	EUT2	24.49	25.00	0.187	0.21	0.096	0.11	0.05
Body	LTE Band66 ANT0	132072	1720	1RB-Low	Front	10mm	\	24.49	25.00	0.146	0.16	0.096	0.11	-0.12
Body	LTE Band66 ANT0	132072	1720	1RB-Low	Rear	10mm		24.49	25.00	0.137	0.15	0.090	0.10	0.16
Body	LTE Band66 ANT0	132072	1720	1RB-Low	Left Edge	10mm	\	24.49	25.00	0.060	0.07	0.038	0.04	-0.11
Body	LTE Band66 ANT0	132072	1720	1RB-Low	Right Edge	10mm	Fig.A48	24.49	25.00	0.193	0.22	0.118	0.13	-0.20
Body	LTE Band66 ANT0	132072	1720	1RB-Low	Bottom Edge	10mm	\	24.49	25.00	0.051	0.06	0.028	0.03	-0.14
Body	LTE Band66 ANT0	26775	1770	50RB-Middle	Front	10mm	\	23.62	24.00	0.097	0.11	0.065	0.07	0.15
Body	LTE Band66 ANT0	26775	1770	50RB-Middle	Rear	10mm	\	23.62	24.00	0.090	0.10	0.060	0.07	-0.10
Body	LTE Band66 ANT0	26775	1770	50RB-Middle	Left Edge	10mm	\	23.62	24.00	0.043	0.05	0.028	0.03	0.02
Body	LTE Band66 ANT0	26775	1770	50RB-Middle	Right Edge	10mm	\	23.62	24.00	0.128	0.14	0.078	0.09	-0.01
Body	LTE Band66 ANT0	26775	1770	50RB-Middle	Bottom Edge	10mm	\	23.62	24.00	0.068	0.07	0.031	0.03	-0.10
Body	LTE Band66 ANT0	132072	1720	1RB-Low	Right Edge	10mm	EUT2	24.49	25.00	0.178	0.20	0.106	0.12	-0.15

13.2 SAR results for 5G NR

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	n25	376500	1882.5	DFT-s-OFDM QPSK	Left Cheek	0mm	\	16.88	17.50	0.430	0.50	0.240	0.28	0.14
Head	n25	376500	1882.5	DFT-s-OFDM QPSK	Left Tilt	0mm	\	16.88	17.50	0.504	0.58	0.263	0.30	-0.11
Head	n25	376500	1882.5	DFT-s-OFDM QPSK	Right Cheek	0mm	\	16.88	17.50	0.558	0.64	0.334	0.39	0.13
Head	n25	376500	1882.5	DFT-s-OFDM QPSK	Right Tilt	0mm	Fig.A33	16.88	17.50	0.584	0.67	0.323	0.37	0.16
Head	n25	376500	1882.5	EUT2	Right Tilt	0mm	\	16.88	17.50	0.566	0.65	0.309	0.36	-0.03
Body	n25	376500	1882.5	DFT-s-OFDM QPSK	Front	10mm	\	16.88	17.50	0.124	0.14	0.071	0.08	0.18
Body	n25	376500	1882.5	DFT-s-OFDM QPSK	Rear	10mm	\	16.88	17.50	0.143	0.16	0.078	0.09	-0.18
Body	n25	376500	1882.5	DFT-s-OFDM QPSK	Left Edge	10mm	\	16.88	17.50	0.060	0.07	0.035	0.04	-0.06
Body	n25	376500	1882.5	DFT-s-OFDM QPSK	Top Edge	10mm	\	16.88	17.50	0.157	0.18	0.083	0.10	0.09
Body	n25	376500	1882.5	DFT-s-OFDM QPSK	Front	17mm	Fig.A34	25.36	25.50	0.355	0.37	0.214	0.22	0.05
Body	n25	376500	1882.5	DFT-s-OFDM QPSK	Rear	21mm	\	25.36	25.50	0.284	0.29	0.171	0.18	-0.01
Body	n25	376500	1882.5	DFT-s-OFDM QPSK	Left Edge	17mm	\	25.36	25.50	0.174	0.18	0.106	0.11	0.05
Body	n25	376500	1882.5	DFT-s-OFDM QPSK	Top Edge	21mm	\	25.36	25.50	0.317	0.33	0.188	0.19	-0.03
Body	n25	376500	1882.5	EUT2	Front	17mm	\	25.36	25.50	0.350	0.36	0.204	0.21	0.02
Head	n66	344000	1720	DFT-s-OFDM QPSK	Left Cheek	0mm	\	17.05	17.50	0.293	0.32	0.167	0.18	-0.19
Head	n66	344000	1720	DFT-s-OFDM QPSK	Left Tilt	0mm	\	17.05	17.50	0.345	0.38	0.183	0.20	0.14
Head	n66	344000	1720	DFT-s-OFDM QPSK	Right Cheek	0mm	Fig.A35	17.05	17.50	0.432	0.48	0.237	0.26	0.13
Head	n66	344000	1720	DFT-s-OFDM QPSK	Right Tilt	0mm	\	17.05	17.50	0.425	0.47	0.199	0.22	-0.15
Head	n66	344000	1720	EUT2	Right Cheek	0mm	\	17.05	17.50	0.421	0.47	0.222	0.25	-0.13
Body	n66	344000	1720	DFT-s-OFDM QPSK	Front	10mm	\	17.05	17.50	0.105	0.12	0.064	0.07	-0.04
Body	n66	344000	1720	DFT-s-OFDM QPSK	Rear	10mm	\	17.05	17.50	0.108	0.12	0.063	0.07	0.16
Body	n66	344000	1720	DFT-s-OFDM QPSK	Left Edge	10mm	\	17.05	17.50	0.046	0.05	0.029	0.03	0.20
Body	n66	344000	1720	DFT-s-OFDM QPSK	Top Edge	10mm	\	17.05	17.50	0.125	0.14	0.068	0.08	-0.04
Body	n66	349000	1745	DFT-s-OFDM QPSK	Front	17mm	Fig.A36	25.23	25.50	0.254	0.27	0.159	0.17	0.16
Body	n66	349000	1745	DFT-s-OFDM QPSK	Rear	21mm	\	25.23	25.50	0.169	0.18	0.113	0.12	0.06
Body	n66	349000	1745	DFT-s-OFDM QPSK	Left Edge	17mm	\	25.23	25.50	0.145	0.15	0.092	0.10	0.02
Body	n66	349000	1745	DFT-s-OFDM QPSK	Top Edge	21mm	\	25.23	25.50	0.229	0.24	0.138	0.15	0.04
Body	n66	349000	1745	EUT2	Front	17mm	\	25.23	25.50	0.245	0.26	0.151	0.16	0.07
Head	n41 pc2	518598	2592.99	DFT-s-OFDM QPSK	Left Cheek	0mm	\	16.94	17.50	0.180	0.20	0.096	0.11	0.08
Head	n41 pc2	518598	2592.99	DFT-s-OFDM QPSK	Left Tilt	0mm	\	16.94	17.50	0.062	0.07	0.033	0.04	0.07
Head	n41 pc2	518598	2592.99	DFT-s-OFDM QPSK	Right Cheek	0mm	Fig.A37	16.94	17.50	0.640	0.73	0.292	0.33	0.08
Head	n41 pc2	518598	2592.99	DFT-s-OFDM QPSK	Right Tilt	0mm	\	16.94	17.50	0.142	0.16	0.073	0.08	0.17
Head	n41 pc2	518598	2592.99	EUT2	Right Cheek	0mm	\	16.94	17.50	0.630	0.72	0.281	0.32	-0.19
Body	n41 pc2	518598	2592.99	DFT-s-OFDM QPSK	Front	10mm	\	16.94	17.50	0.085	0.10	0.043	0.05	0.08
Body	n41 pc2	518598	2592.99	DFT-s-OFDM QPSK	Rear	10mm	\	16.94	17.50	0.132	0.15	0.063	0.07	0.15
Body	n41 pc2	518598	2592.99	DFT-s-OFDM QPSK	Left Edge	10mm	\	16.94	17.50	0.191	0.22	0.082	0.09	0.05
Body	n41 pc2	518598	2592.99	DFT-s-OFDM PI/2 BPSK1	Front	17mm	\	27.15	27.50	0.122	0.13	0.066	0.07	-0.06
Body	n41 pc2	518598	2592.99	DFT-s-OFDM PI/2 BPSK1	Rear	21mm	\	27.15	27.50	0.118	0.13	0.064	0.07	0.00
Body	n41 pc2	518598	2592.99	DFT-s-OFDM PI/2 BPSK1	Left Edge	17mm	Fig.A38	27.15	27.50	0.211	0.23	0.107	0.12	0.18
Body	n41 pc2	518598	2592.99	EUT2	Left Edge	17mm	\	27.15	27.50	0.211	0.23	0.107	0.12	0.16
Head	n77 pc2	636000	3540	DFT-s-OFDM QPSK	Left Cheek	0mm	\	17.70	18.00	0.397	0.43	0.151	0.16	-0.16
Head	n77 pc2	636000	3540	DFT-s-OFDM QPSK	Left Tilt	0mm	Fig.A39	17.70	18.00	0.565	0.61	0.204	0.22	-0.11
Head	n77 pc2	636000	3540	DFT-s-OFDM QPSK	Right Cheek	0mm	\	17.70	18.00	0.151	0.16	0.065	0.07	-0.13
Head	n77 pc2	636000	3540	DFT-s-OFDM QPSK	Right Tilt	0mm	\	17.70	18.00	0.206	0.22	0.081	0.09	0.10
Head	n77 pc2	636000	3540	EUT2	Left Tilt	0mm	\	17.70	18.00	0.549	0.59	0.183	0.20	-0.18
Body	n77 pc2	636000	3540	DFT-s-OFDM QPSK	Front	10mm	\	17.70	18.00	0.080	0.09	0.036	0.04	-0.06
Body	n77 pc2	636000	3540	DFT-s-OFDM QPSK	Rear	10mm	\	17.70	18.00	0.140	0.15	0.063	0.07	0.10
Body	n77 pc2	636000	3540	DFT-s-OFDM QPSK	Right Edge	10mm	\	17.70	18.00	0.038	0.04	0.019	0.02	-0.03
Body	n77 pc2	636000	3540	DFT-s-OFDM QPSK	Top Edge	10mm	\	17.70	18.00	0.205	0.22	0.091	0.10	0.10
Body	n77 pc2	633334	3500.01	DFT-s-OFDM QPSK	Front	17mm	\	27.78	28.00	0.284	0.30	0.143	0.15	0.00
Body	n77 pc2	633334	3500.01	DFT-s-OFDM QPSK	Rear	21mm	\	27.78	28.00	0.398	0.42	0.204	0.21	-0.14
Body	n77 pc2	633334	3500.01	DFT-s-OFDM QPSK	Right Edge	17mm	\	27.78	28.00	0.159	0.17	0.087	0.09	-0.11
Body	n77 pc2	633334	3500.01	DFT-s-OFDM QPSK	Top Edge	21mm	Fig.A40	27.78	28.00	0.569	0.60	0.285	0.30	-0.01
Body	n77 pc2	633334	3500.01	EUT2	Top Edge	21mm	\	27.78	28.00	0.554	0.58	0.270	0.28	-0.11
Head	n77 pc2	654267	3814.000	DFT-s-OFDM QPSK	Left Cheek	0mm	\	17.93	18	0.831	0.84	0.315	0.32	-0.03
Head	n77 pc2	664666	3969.990	DFT-s-OFDM QPSK	Left Cheek	0mm	\	17.66	18	0.732	0.79	0.293	0.32	0.13
Head	n77 pc2	647334	3710.010	DFT-s-OFDM QPSK	Left Cheek	0mm		17.65	18	0.712	0.77	0.266	0.29	0.19
Head	n77 pc2	654267	3814.000	DFT-s-OFDM QPSK	Left Tilt	0mm	Fig.A41	17.93	18	1.030	1.05	0.368	0.37	0.00
Head	n77 pc2	664666	3969.990	DFT-s-OFDM QPSK	Left Tilt	0mm		17.66	18	0.943	1.02	0.361	0.39	-0.11
Head	n77 pc2	647334	3710.010	DFT-s-OFDM QPSK	Left Tilt	0mm		17.65	18	0.912	0.99	0.355	0.38	0.15
Head	n77 pc2	654267	3814.000	DFT-s-OFDM QPSK	Right Cheek	0mm	\	17.93	18	0.382	0.39	0.143	0.14	0.10
Head	n77 pc2	654267	3814.000	DFT-s-OFDM QPSK	Right Tilt	0mm	\	17.93	18	0.508	0.52	0.186	0.19	-0.07
Head	n77 pc2	654267	3814.000	EUT2	Left Tilt	0mm	\	17.93	18	0.983	1.00	0.350	0.36	0.16
Body	n77 pc2	654267	3814.000	DFT-s-OFDM QPSK	Front	10mm	\	17.93	18	0.152	0.15	0.065	0.07	-0.17
Body	n77 pc2	654267	3814.000	DFT-s-OFDM QPSK	Rear	10mm	\	17.93	18	0.187	0.19	0.080	0.08	-0.08
Body	n77 pc2	654267	3814.000	DFT-s-OFDM QPSK	Right Edge	10mm	\	17.93	18	0.045	0.05	0.024	0.02	0.11
Body	n77 pc2	654267	3814.000	DFT-s-OFDM QPSK	Top Edge	10mm	\	17.93	18	0.295	0.30	0.122	0.12	-0.05
Body	n77 pc2	650800	3762.000	DFT-s-OFDM QPSK	Front	17mm	\	27.94	28	0.565	0.57	0.265	0.27	0.15
Body	n77 pc2	650800	3762.000	DFT-s-OFDM QPSK	Rear	21mm	\	27.94	28	0.558	0.57	0.279	0.28	0.15
Body	n77 pc2	650800	3762.000	DFT-s-OFDM QPSK	Right Edge	17mm	\	27.94	28	0.232	0.24	0.125	0.13	0.08
Body	n77 pc2	650800	3762.000	DFT-s-OFDM QPSK	Top Edge	21mm	Fig.A42	27.94	28	0.868	0.88	0.425	0.43	0.04
Head	n77 pc2	664666	3969.990	DFT-s-OFDM QPSK	Top Edge	21mm		27.72	28	0.801	0.85	0.403	0.43	0.15
Head	n77 pc2	647334	3710.010	DFT-s-OFDM QPSK	Top Edge	21mm		27.83	28	0.832	0.87	0.381	0.40	0.09
Body	n77 pc2	650800	3762.000	EUT2	Top Edge	21mm	\	27.94	28	0.850	0.86	0.417	0.42	-0.19
Head	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Left Cheek	0mm	\	25.09	25.50	0.193	0.21	0.143	0.16	0.07
Head	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Left Tilt	0mm	\	25.09	25.50	0.101	0.11	0.079	0.09	-0.03
Head	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Cheek	0mm	Fig.A43	25.09	25.50	0.210	0.23	0.161	0.18	-0.09
Head	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Tilt	0mm	\	25.09	25.50	0.112	0.12	0.088	0.10	-0.02
Head	n71	136100	680.5	EUT2	Right Cheek	0mm	\	25.09	25.50	0.200	0.22	0.148	0.16	0.02
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Front	10mm	\	25.09	25.50	0.131	0.14	0.074	0.08	0.13
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Rear	10mm	\	25.09	25.50	0.176	0.19	0.084	0.09	0.12
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Left Edge	10mm	\	25.09	25.50	0.122	0.13	0.063	0.07	0.08
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Edge	10mm		25.09	25.50	0.218	0.24	0.114	0.13	-0.06
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Bottom Edge	10mm	\	25.09	25.50	0.140	0.15	0.051	0.06	0.12
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Front	16mm	\	25.09	25.50	0.257	0.28	0.195	0.21	0.05
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Rear	21mm	\	25.09	25.50	0.345	0.38	0.222	0.24	0.12
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Left Edge	17mm	\	25.09	25.50	0.239	0.26	0.167	0.18	-0.11
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Edge	10mm	Fig.A44	25.09	25.50	0.427	0.47	0.300	0.33	-0.06
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Bottom Edge	21mm	\	25.09	25.50	0.274	0.30	0.133	0.15	-0.08
Body	n71	136100	680.5	EUT2	Right Edge	10mm	\	25.09	25.50	0.401	0.44	0.274	0.30	0.15

13.3 SAR results for WLAN

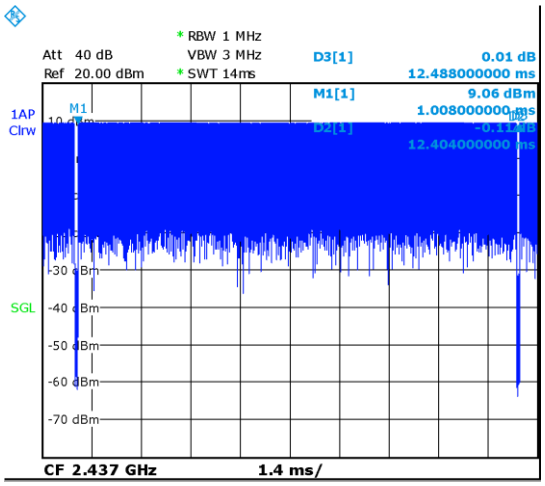
The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

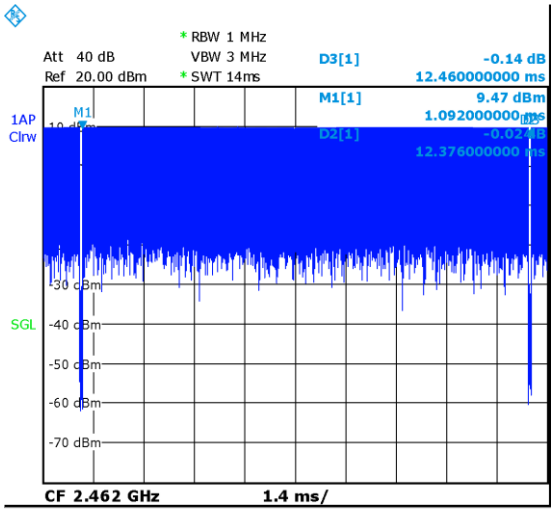
SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Duty factor plot

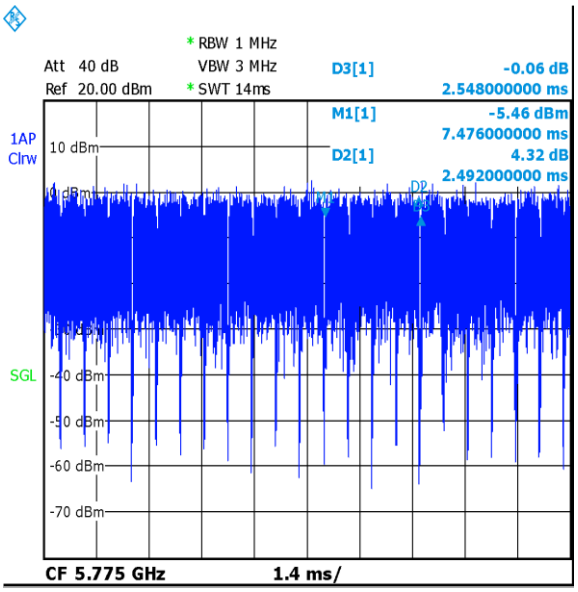
CH6



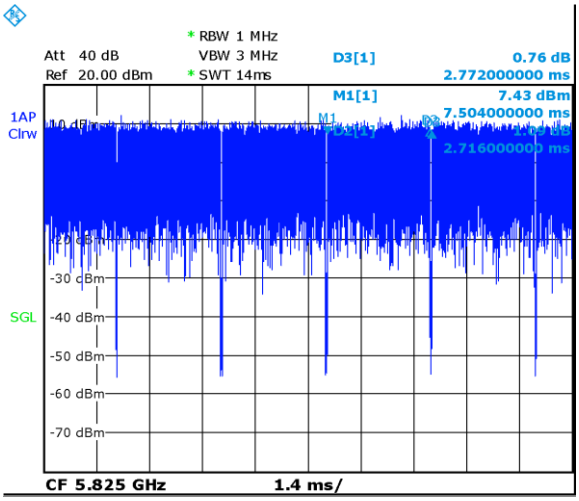
CH11



CH155



CH165



WLAN 2.4G

Test Position	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	WLAN 2.4G	6	2437	11b	Cheek Left	Fig.29	11.98	12.00	0.197	0.20	0.102	0.10	-0.07
Head	WLAN 2.4G	6	2437	11b	Tilt Left	\	11.98	12.00	0.181	0.18	0.092	0.09	0.03
Head	WLAN 2.4G	6	2437	11b	Cheek Right	\	11.98	12.00	0.110	0.11	0.062	0.06	-0.12
Head	WLAN 2.4G	6	2437	11b	Tilt Right	\	11.98	12.00	0.136	0.14	0.070	0.07	0.14
Head	WLAN 2.4G	6	2437	11b	Cheek Left	EUT2	11.98	12.00	0.181	0.18	0.095	0.10	0.12
Body	WLAN 2.4G	6	2437	11b	Front 10mm	\	16.48	16.50	0.125	0.13	0.073	0.07	0.03
Body	WLAN 2.4G	6	2437	11b	Rear 10mm	\	16.48	16.50	0.141	0.14	0.079	0.08	0.13
Body	WLAN 2.4G	6	2437	11b	Right Edge 10mm	\	16.48	16.50	0.121	0.12	0.067	0.07	0.13
Body	WLAN 2.4G	6	2437	11b	Top Edge 10mm	Fig.30	16.48	16.50	0.244	0.25	0.127	0.13	-0.17
Body	WLAN 2.4G	6	2437	11b	Top Edge 10mm	EUT2	16.48	16.50	0.213	0.21	0.116	0.12	0.18

SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.						
2437	6	Left	Cheek	99.3%	100%	**0.20**	**0.20**

SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.						
2437	6	Left	Tilt	99.3%	100%	**0.25**	**0.25**

WLAN 5G

Test Position	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	WLAN 5G	58	5290	802.11ac 80M	Right Cheek	\	9.15	11	0.030	0.05	0.006	0.01	0.11
Head	WLAN 5G	58	5290	802.11ac 80M	Right TIlt	\	9.15	11	0.021	0.03	0.005	0.01	0.04
Head	WLAN 5G	58	5290	802.11ac 80M	Left Cheek	\	9.15	11	0.099	0.15	0.030	0.05	0.00
Head	WLAN 5G	58	5290	802.11ac 80M	Left TIlt	\	9.15	11	0.071	0.11	0.024	0.04	0.20
Head	WLAN 5G	138	5690	802.11ac 80M	Right Cheek	\	9.84	11	0.038	0.05	0.011	0.01	0.03
Head	WLAN 5G	138	5690	802.11ac 80M	Right TIlt	\	9.84	11	0.034	0.05	0.008	0.01	-0.16
Head	WLAN 5G	138	5690	802.11ac 80M	Left Cheek	\	9.84	11	0.094	0.12	0.041	0.05	-0.06
Head	WLAN 5G	138	5690	802.11ac 80M	Left TIlt	\	9.84	11	0.095	0.12	0.031	0.04	-0.01
Head	WLAN 5G	155	5775	802.11ac 80M	Right Cheek	\	9.98	11	0.038	0.05	0.012	0.02	-0.09
Head	WLAN 5G	155	5775	802.11ac 80M	Right TIlt	\	9.98	11	0.035	0.04	0.010	0.01	0.13
Head	WLAN 5G	155	5775	802.11ac 80M	Left Cheek	Fig.31	9.98	11	0.133	0.17	0.041	0.05	0.19
Head	WLAN 5G	155	5775	802.11ac 80M	Left TIlt	\	9.98	11	0.100	0.13	0.033	0.04	-0.02
Head	WLAN 5G	155	5775	802.11ac 80M	Left TIlt	EUT2	9.98	11	0.091	0.12	0.028	0.04	0.18
Test Position	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	WLAN 5G	64	5320	802.11a 20M	Front 10mm	\	15.84	16.5	0.046	0.05	0.021	0.02	0.04
Body	WLAN 5G	64	5320	802.11a 20M	Rear 10mm	\	15.84	16.5	0.167	0.19	0.072	0.08	0.05
Body	WLAN 5G	64	5320	802.11a 20M	Right Edge 10mm	\	15.84	16.5	0.170	0.20	0.075	0.09	-0.09
Body	WLAN 5G	64	5320	802.11a 20M	Top Edge 10mm	\	15.84	16.5	0.161	0.19	0.071	0.08	-0.20
Body	WLAN 5G	136	5680	802.11a 20M	Front 10mm	\	16.14	16.5	0.108	0.12	0.049	0.05	-0.07
Body	WLAN 5G	136	5680	802.11a 20M	Rear 10mm	\	16.14	16.5	0.195	0.21	0.086	0.09	0.04
Body	WLAN 5G	136	5680	802.11a 20M	Right Edge 10mm	\	16.14	16.5	0.337	0.37	0.133	0.14	-0.16
Body	WLAN 5G	136	5680	802.11a 20M	Top Edge 10mm	\	16.14	16.5	0.091	0.10	0.044	0.05	-0.14
Body	WLAN 5G	165	5825	802.11a 20M	Front 10mm	\	16.47	16.5	0.116	0.12	0.050	0.05	0.11
Body	WLAN 5G	165	5825	802.11a 20M	Rear 10mm	\	16.47	16.5	0.303	0.30	0.119	0.12	0.15
Body	WLAN 5G	165	5825	802.11a 20M	Right Edge 10mm	Fig.32	16.47	16.5	0.425	0.43	0.160	0.16	0.14
Body	WLAN 5G	165	5825	802.11a 20M	Top Edge 10mm	\	16.47	16.5	0.103	0.10	0.041	0.04	0.02
Body	WLAN 5G	165	5825	802.11a 20M	Right Edge 10mm	EUT2	16.47	16.5	0.401	0.40	0.157	0.16	0.19

SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.					
5775	155	Left Cheek	98%	100%	0.17	0.17

SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.					
5775	155	Left Cheek	98%	100%	0.43	0.44

13.4 SAR results for BT

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	BT	78	2480	EDR	Left Cheek	0mm	9.63	10.00	<0.01	<0.01	<0.01	<0.01	/
Head	BT	78	2480	EDR	Left Tilt	0mm	9.63	10.00	<0.01	<0.01	<0.01	<0.01	/
Head	BT	78	2480	EDR	Right Cheek	0mm	9.63	10.00	<0.01	<0.01	<0.01	<0.01	/
Head	BT	78	2480	EDR	Right Cheek	0mm	9.63	10.00	<0.01	<0.01	<0.01	<0.01	/
Body	BT	78	2480	EDR	Front	10mm	9.63	10.00	<0.01	<0.01	<0.01	<0.01	/
Body	BT	78	2480	EDR	Rear	10mm	9.63	10.00	<0.01	<0.01	<0.01	<0.01	/
Body	BT	78	2480	EDR	Right Edge	10mm	9.63	10.00	<0.01	<0.01	<0.01	<0.01	/
Body	BT	78	2480	EDR	Top Edge	10mm	9.63	10.00	<0.01	<0.01	<0.01	<0.01	/

14 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

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 (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Table 14.1: SAR Measurement Variability

Frequency Band	Channel Number	Frequency (MHz)	Test Position	Distance	Original SAR 1g (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
WCDMA1900	9400	1880	Right Tilt	0mm	0.792	0.773	1.02	/
WCDMA1900	9262	1852.4	Right Tilt	0mm	0.729	0.712	1.02	/
WCDMA1900	9538	1907.6	Right Tilt	0mm	0.803	0.791	1.02	/
LTE Band7	21350	2560	Left Edge	17mm	0.818	0.799	1.02	/
LTE Band7	20850	2510	Left Edge	17mm	0.872	0.853	1.02	/
LTE Band7	21100	2535	Left Edge	17mm	0.886	0.876	1.01	/
n77 pc2	654267	3814.000	Left Cheek	0mm	0.831	0.818	1.02	/
n77 pc2	664666	3969.990	Left Cheek	0mm	0.732	0.722	1.01	/
n77 pc2	647334	3710.010	Left Cheek	0mm	0.712	0.697	1.02	/
n77 pc2	654267	3814.000	Left Tilt	0mm	1.030	1.014	1.02	/
n77 pc2	664666	3969.990	Left Tilt	0mm	0.943	0.930	1.01	/
n77 pc2	647334	3710.010	Left Tilt	0mm	0.912	0.899	1.01	/
n77 pc2	650800	3762.000	Top Edge	21mm	0.868	0.857	1.01	/
n77 pc2	664666	3969.990	Top Edge	21mm	0.801	0.784	1.02	/
n77 pc2	647334	3710.010	Top Edge	21mm	0.832	0.813	1.02	/

15 Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be ≤ 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

Therefore, the measurement uncertainty is not required.

16 MAIN TEST INSTRUMENTS

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46900484	September 1, 2021	One year
02	Power meter	NRP8S	109691	October 20, 2021	One year
03	Power sensor	NRX	102283		
04	Signal Generator	SMC100A	182249	January 15, 2022	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	CMW500	166370	June 25, 2021	One year
07	E-field Probe	SPEAG EX3DV4	7464	January 26,2022	One year
08	DAE	SPEAG DAE4	549	January 07, 2022	One year
09	Dipole Validation Kit	SPEAG D750V3	1017	July 12,,2021	One year
10	Dipole Validation Kit	SPEAG D835V2	4d069	July 12,,2021	One year
11	Dipole Validation Kit	SPEAG D1750V2	1003	July 12, 2021	One year
12	Dipole Validation Kit	SPEAG D1900V2	5d101	July 15,2021	One year
13	Dipole Validation Kit	SPEAG D2450V2	853	July 26,2021	One year
14	Dipole Validation Kit	SPEAG D3500V2	1016	June 21,2021	One year
15	Dipole Validation Kit	SPEAG D3700V2	1004	June 21,2021	One year
16	Dipole Validation Kit	SPEAG D2600V2	1012	July 26,2021	One year
17	Dipole Validation Kit	SPEAG D5GHzV2	1060	June 22,2021	One year

END OF REPORT BODY

Appendixes

Refer to separated files for the following appendixes

ANNEX A Graph Results

ANNEX B System Verification Results

ANNEX C SAR Measurement Setup

ANNEX D Position of the wireless device in relation to the phantom

ANNEX E Equivalent Media Recipes

ANNEX F System Validation

ANNEX G Probe Calibration Certificate

ANNEX H Dipole Calibration Certificate

ANNEX I Sensor Triggering Data Summary

ANNEX J Accreditation Certificate

ANNEX A Graph Results

GSM850_CH251 Right Cheek

Date: 5/7/2022

Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f =848.8 MHz; σ =0.916 mho/m; εr =40.82; ρ =1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: GSM850 848.8 MHz Duty Cycle: 1:8.3
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.326 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.077 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.335 W/kg
SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.204 W/kg
Maximum value of SAR (measured) = 0.276 W/kg

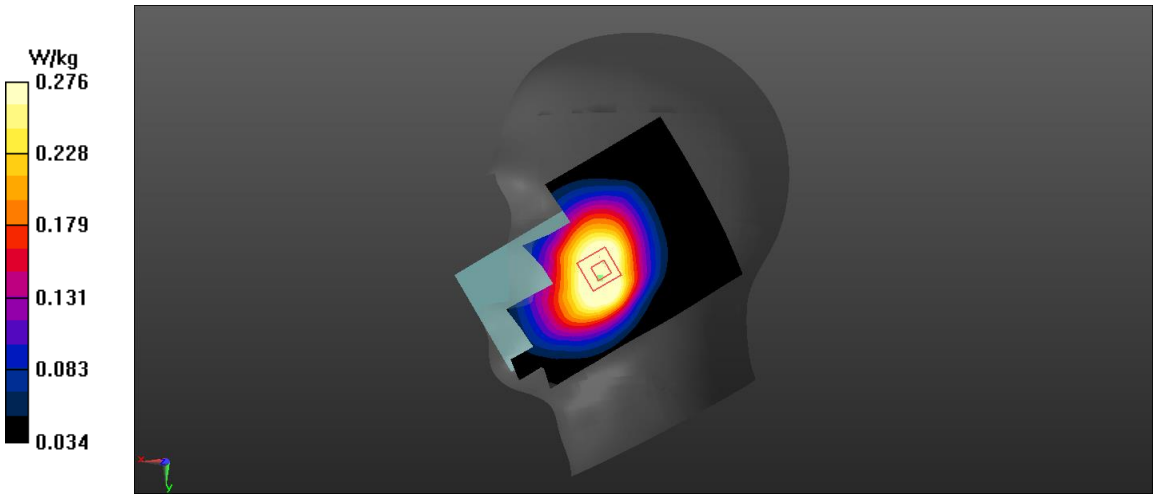


Fig A.1

GSM850_CH251 GPRS(2TX) Rear 10mm
Date: 5/7/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f =848.8 MHz; σ =0.899 mho/m; εr =41.98; ρ =1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: GSM850 848.8 MHz Duty Cycle: 1:4
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.842 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.08 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.586 W/kg; SAR(10 g) = 0.333 W/kg
Maximum value of SAR (measured) = 0.844 W/kg

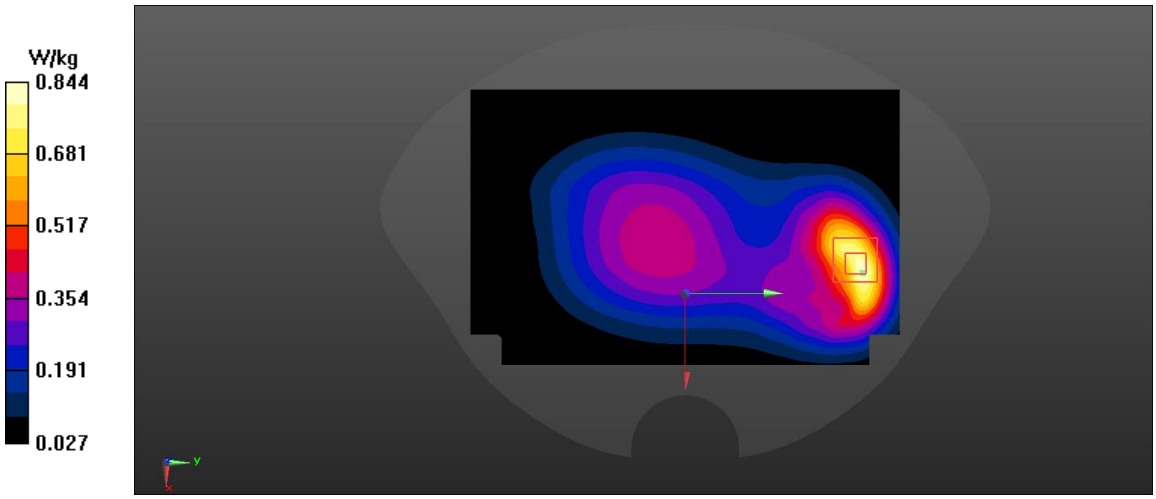


Fig A.2

PCS1900_CH810 Right Tilt
Date: 5/11/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f =1909.8 MHz; σ =1.406 mho/m; εr =39.43; ρ =1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: PCS1900 1909.8 MHz Duty Cycle: 1:8.3
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.54 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.21 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.582 W/kg
SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.15 W/kg
Maximum value of SAR (measured) = 0.320 W/kg

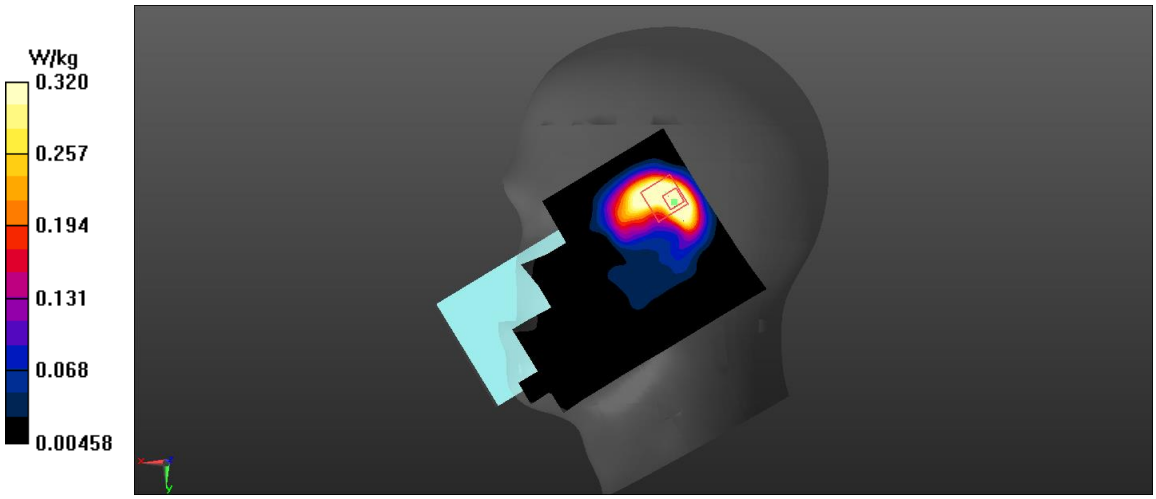


Fig A.3

PCS1900_CH810 GPRS(2TX) Front 17mm
Date: 5/11/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f =1909.8 MHz; σ =1.402 mho/m; εr =40.32; ρ =1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: PCS1900 1909.8 MHz Duty Cycle: 1:4
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.411 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.61 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.59 W/kg
SAR(1 g) = 0.32 W/kg; SAR(10 g) = 0.188 W/kg
Maximum value of SAR (measured) = 0.515 W/kg

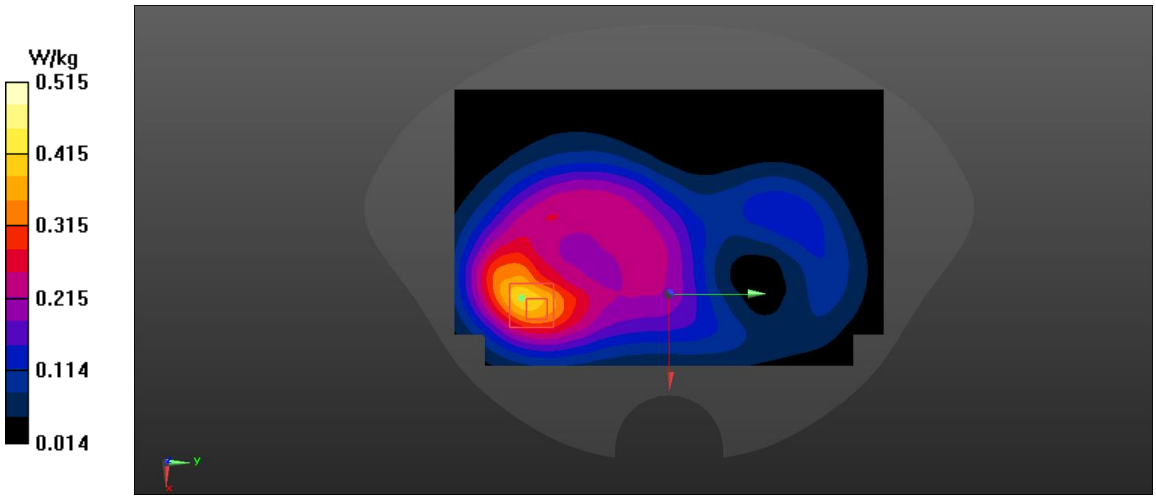


Fig A.4

WCDMA1900-BII_CH9538 RMC Right Tilt
Date: 5/11/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f =1907.6 MHz; σ =1.405 mho/m; εr =39.43; ρ =1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA1900-BII 1907.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.46 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.44 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 0.803 W/kg; SAR(10 g) = 0.381 W/kg
Maximum value of SAR (measured) = 0.888 W/kg

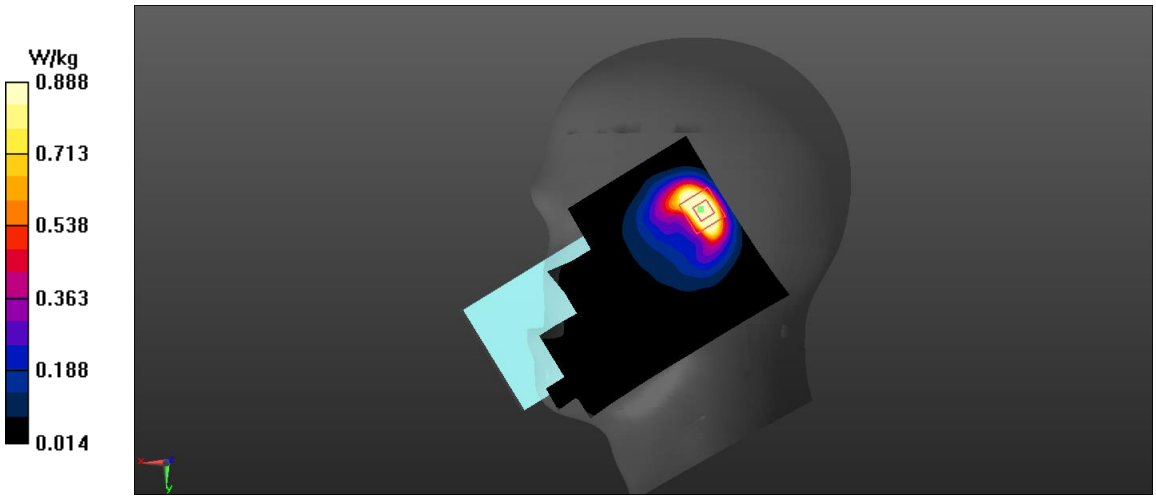


Fig A.5

WCDMA1900-BII_CH9400 RMC Front 17mm
Date: 5/11/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.373 mho/m; εr = 40.35; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA1900-BII 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.705 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.98 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.804 W/kg
SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.298 W/kg
Maximum value of SAR (measured) = 0.687 W/kg

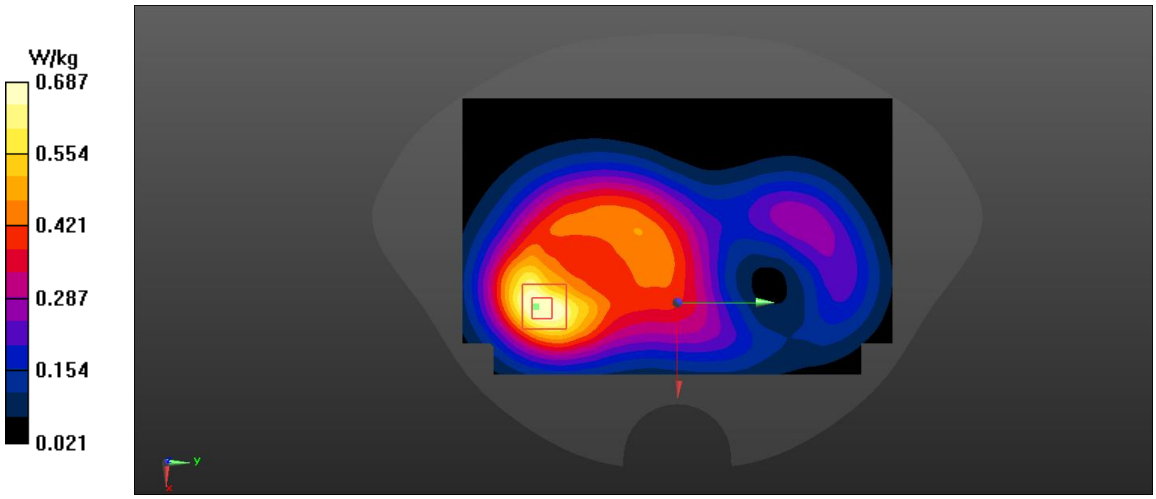


Fig A.6

WCDMA1700-BIV_CH1513 RMC Right Cheek
Date: 5/9/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1752.6 MHz; σ = 1.383 mho/m; εr = 40.1; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA1700-BIV 1752.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.933 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.91 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.308 W/kg
Maximum value of SAR (measured) = 0.608 W/kg

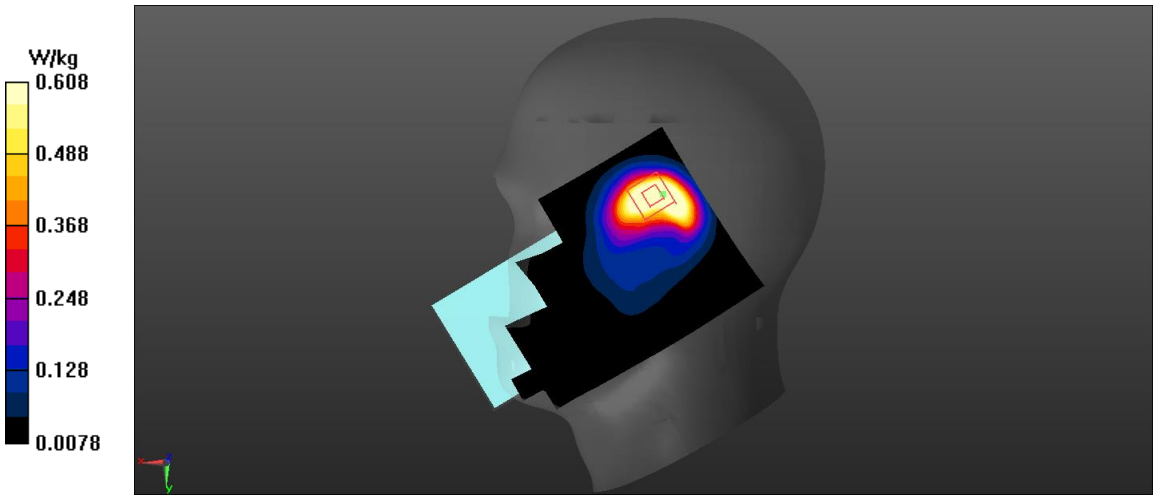


Fig A.7

WCDMA1700-BIV_CH1412 RMC Front 17mm
Date: 5/9/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1732.5 MHz; σ = 1.353 mho/m; εr = 40.04; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA1700-BIV 1732.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.457 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.6 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.502 W/kg
SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.199 W/kg
Maximum value of SAR (measured) = 0.433 W/kg

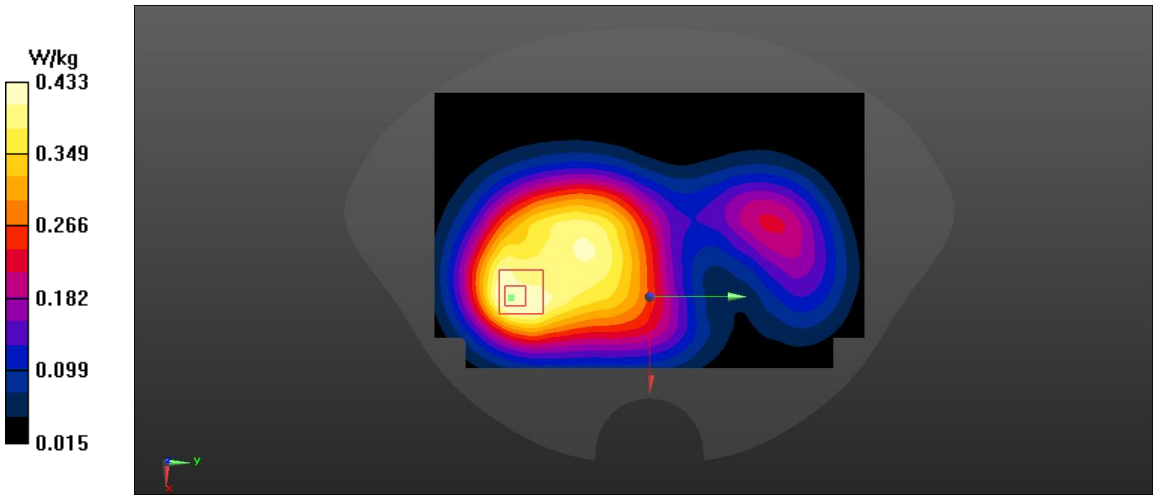


Fig A.8

WCDMA850-BV_CH4233 RMC Right Cheek
Date: 5/7/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f = 846.6 MHz; σ = 0.914 mho/m; εr = 40.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA850-BV 846.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.469 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.17 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.482 W/kg
SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.294 W/kg
Maximum value of SAR (measured) = 0.400 W/kg

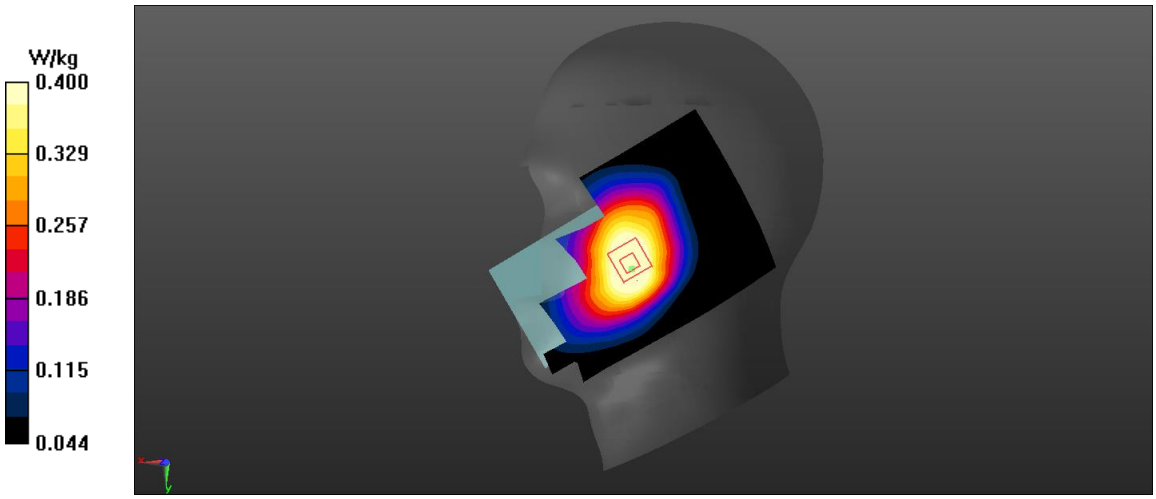


Fig A.9

WCDMA850-BV_CH4233 RMC Rear 10mm
Date: 5/7/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f = 846.6 MHz; σ = 0.897 mho/m; εr = 41.99; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA850-BV 846.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.8 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.75 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.317 W/kg
Maximum value of SAR (measured) = 0.829 W/kg

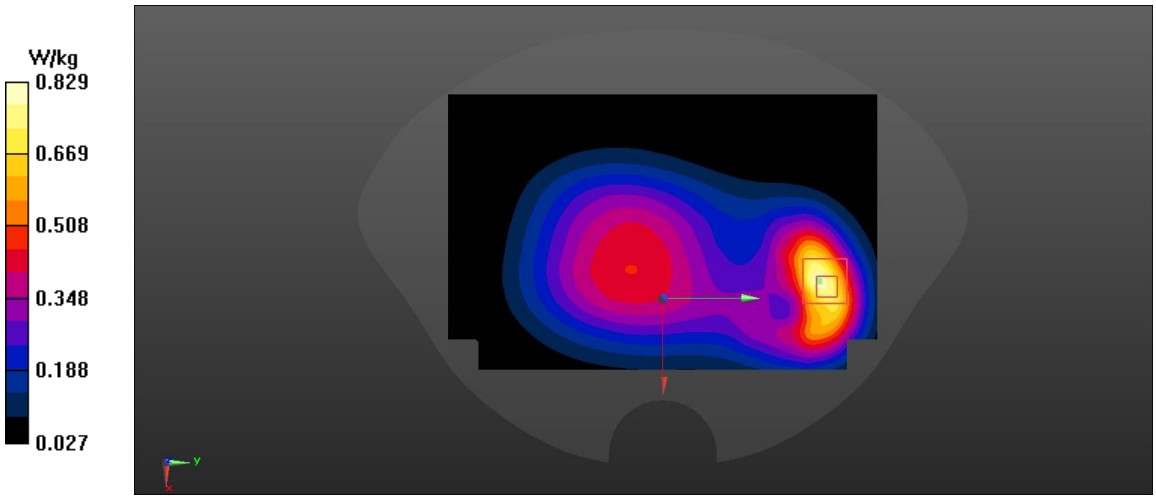


Fig A.10

LTE2500-FDD7_CH21350 1RB-High Right Cheek
Date: 5/13/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2560 MHz; σ = 1.933 mho/m; εr = 39.78; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE2500-FDD7 2560 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.43 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.55 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.68 W/kg
SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.22 W/kg
Maximum value of SAR (measured) = 0.576 W/kg

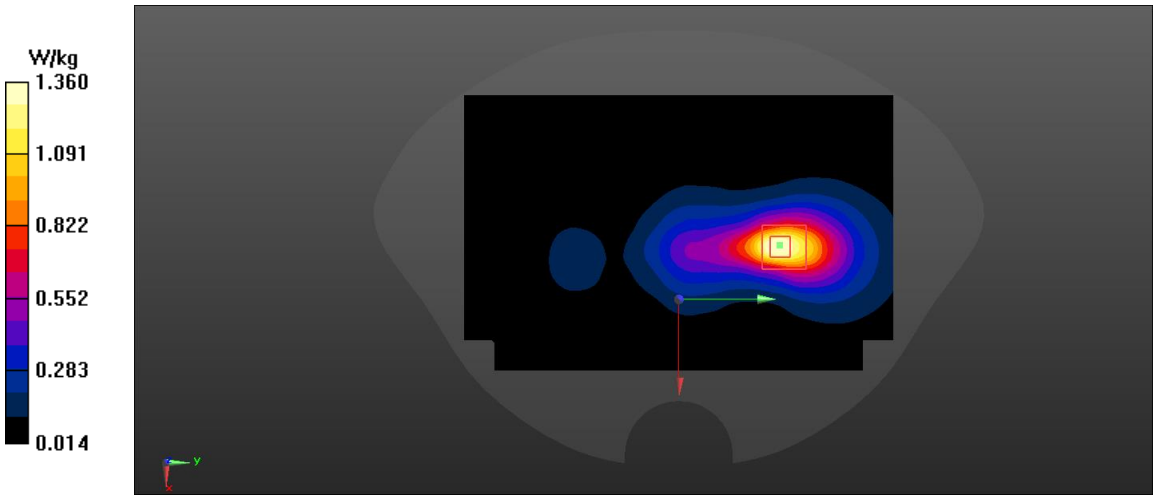


Fig A.11

LTE2500-FDD7_CH21100 1RB-Middle Left Edge 17mm
Date: 5/13/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2535 MHz; σ = 1.891 mho/m; εr = 38.49; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE2500-FDD7 2535 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.43 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.55 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.68 W/kg
SAR(1 g) = 0.886 W/kg; SAR(10 g) = 0.458 W/kg
Maximum value of SAR (measured) = 1.36 W/kg

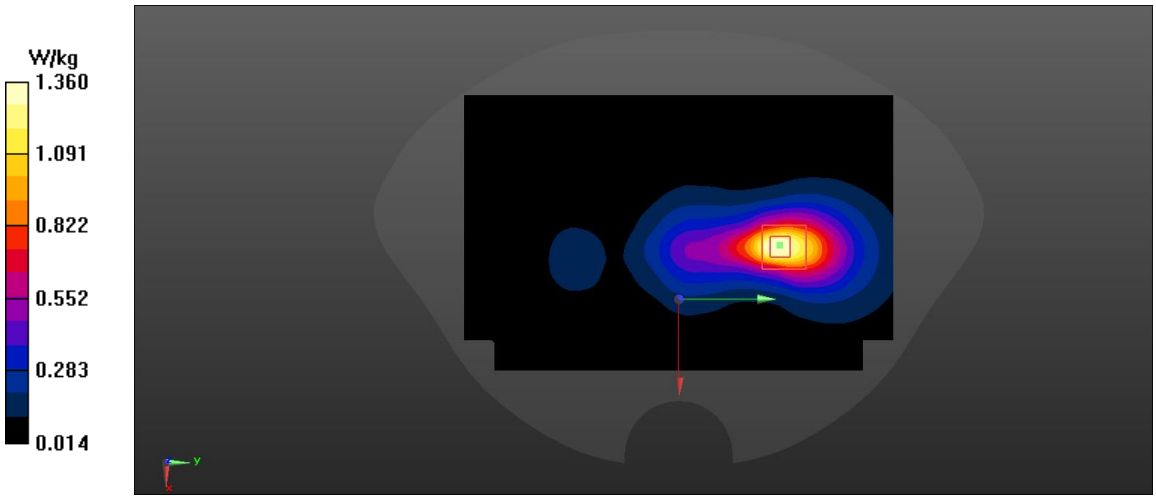


Fig A.12

LTE700-FDD12_CH23130 1RB-Low Left Cheek
Date: 5/5/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 711 MHz; σ = 0.86 mho/m; εr = 42.12; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.104 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.608 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.115 W/kg
SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.067 W/kg
Maximum value of SAR (measured) = 0.106 W/kg

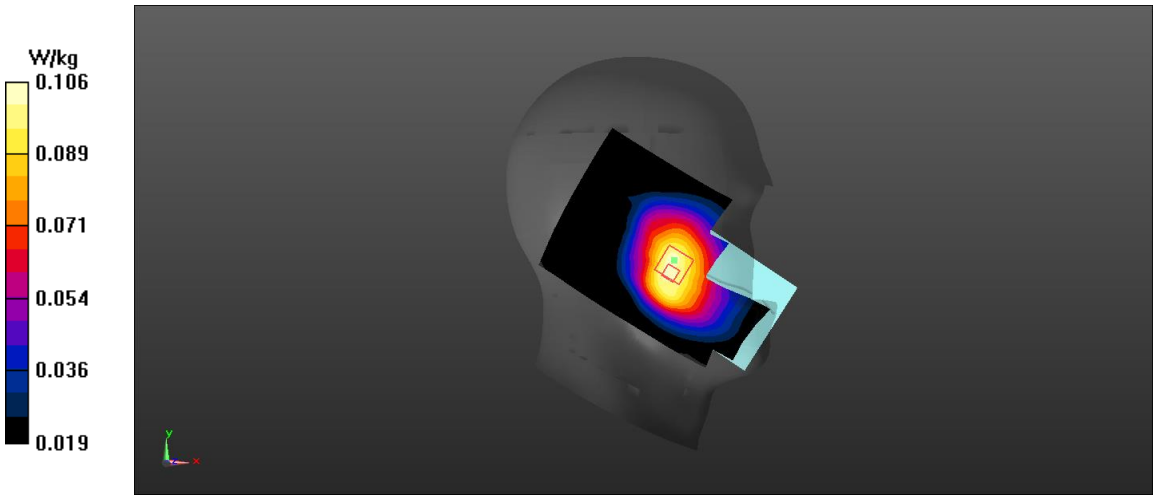


Fig A.13

LTE700-FDD12_CH23130 1RB-Low Right Edge 10mm
Date: 5/5/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 711 MHz; σ = 0.854 mho/m; εr = 41.64; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.243 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.56 V/m; Power Drift = 0.1 dB
Peak SAR (extrapolated) = 0.276 W/kg
SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.317 W/kg
Maximum value of SAR (measured) = 0.245 W/kg

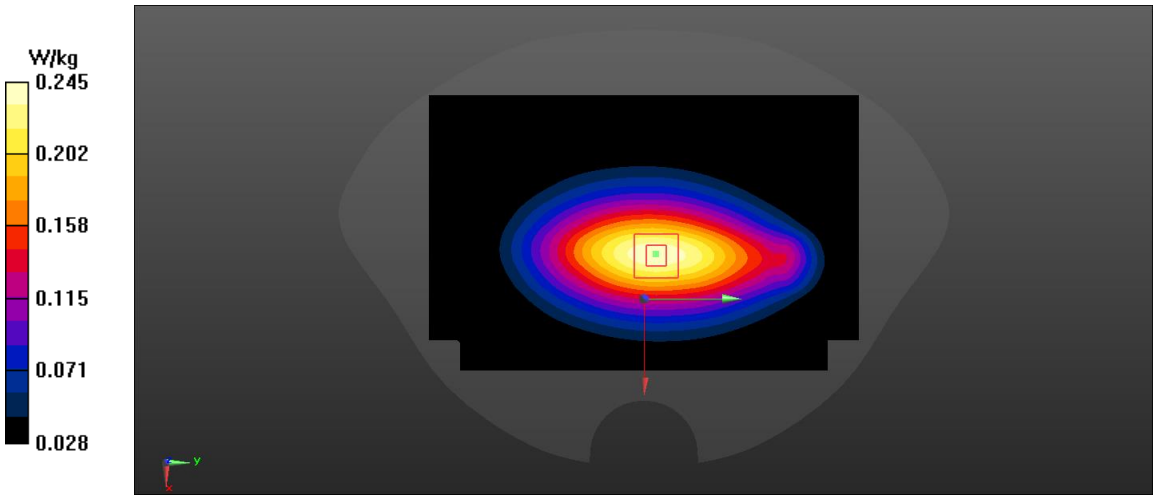


Fig A.14

LTE750-FDD13_CH23230 1RB-Middle Left Cheek
Date: 5/5/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; σ = 0.927 mho/m; εr = 42.03; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.129 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.725 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.142 W/kg
SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.083 W/kg
Maximum value of SAR (measured) = 0.131 W/kg

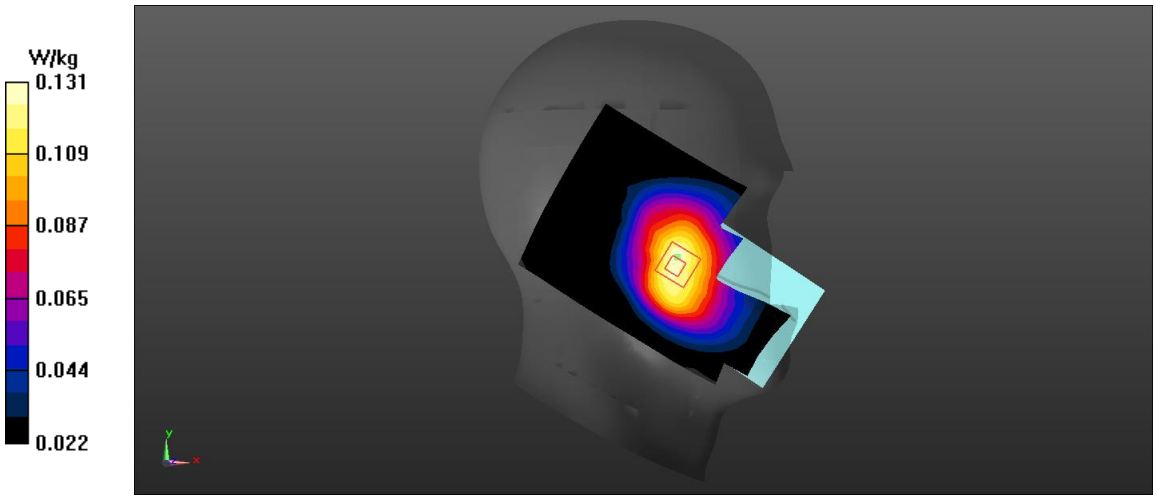


Fig A.15

LTE750-FDD13_CH23230 1RB-Middle Right Edge 10mm
Date: 5/5/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; σ = 0.921 mho/m; εr = 41.55; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.502 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.7 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.564 W/kg
SAR(1 g) = 0.391 W/kg; SAR(10 g) = 0.273 W/kg
Maximum value of SAR (measured) = 0.502 W/kg

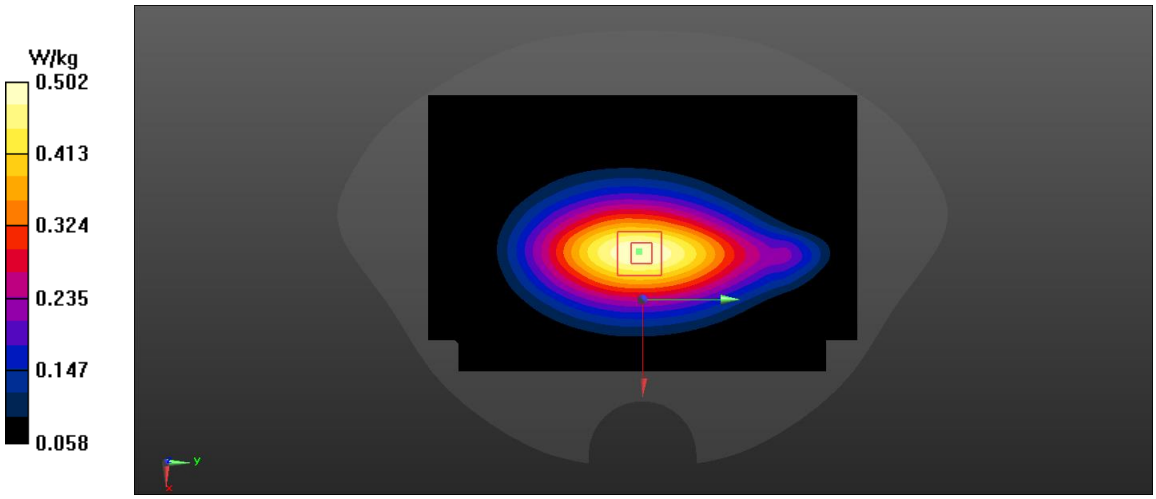


Fig A.16

LTE1900-FDD25_CH26590 1RB-Low Right Tilt
Date: 5/12/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1905 MHz; σ = 1.402 mho/m; εr = 39.43; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD25 1905 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.33 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.42 V/m; Power Drift = -0.2 dB
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.349 W/kg
Maximum value of SAR (measured) = 0.807 W/kg

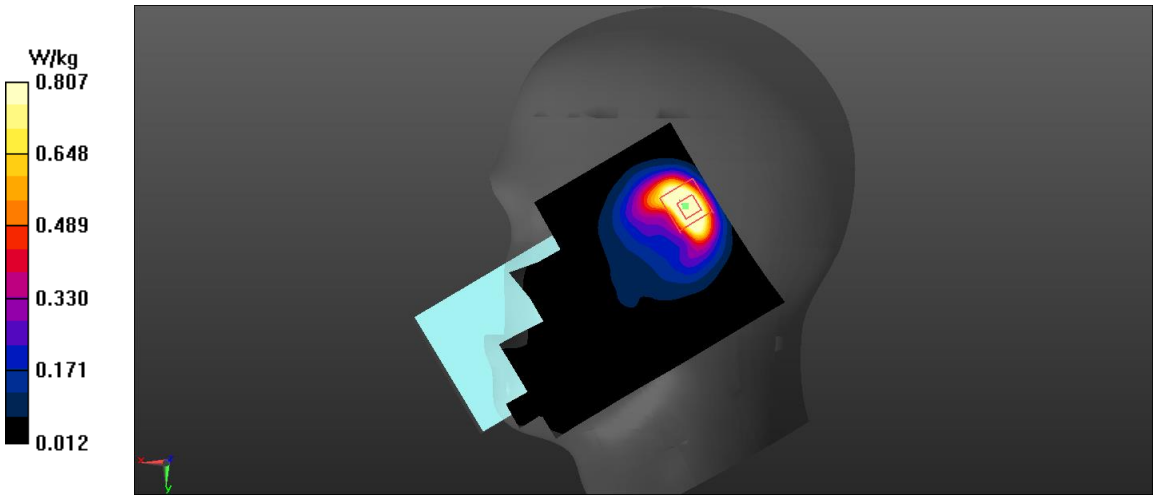


Fig A.17

LTE1900-FDD25_CH26590 1RB-Middle Front 17mm
Date: 5/12/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1905 MHz; σ = 1.397 mho/m; εr = 40.32; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE1900-FDD25 1905 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.669 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.91 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.764 W/kg
SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.282 W/kg
Maximum value of SAR (measured) = 0.656 W/kg

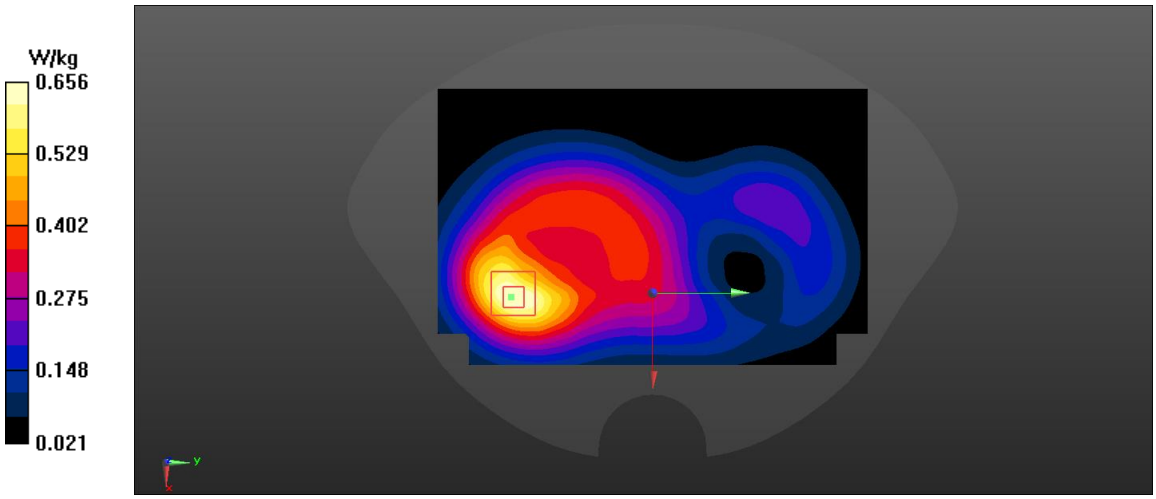


Fig A.18

LTE850-FDD26_CH26775 1RB-Low Right Cheek
Date: 5/8/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f = 822.5 MHz; σ = 0.891 mho/m; εr = 40.86; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE850-FDD26 822.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.134 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.393 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.138 W/kg
SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.085 W/kg
Maximum value of SAR (measured) = 0.115 W/kg

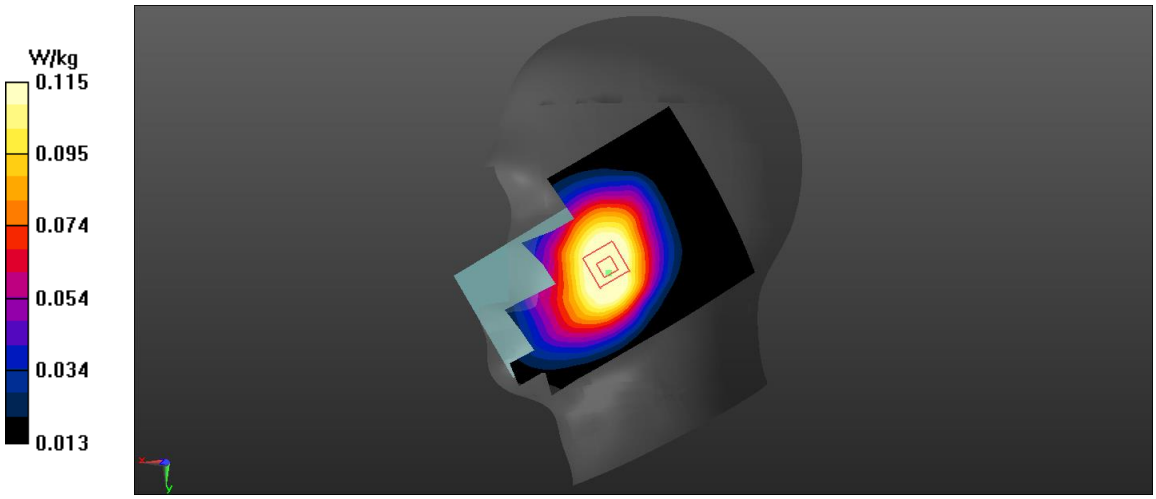


Fig A.19

LTE850-FDD26_CH26965 1RB-Low Right Edge 10mm
Date: 5/8/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f = 841.5 MHz; σ = 0.893 mho/m; εr = 41.99; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE850-FDD26 841.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.312 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.88 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.352 W/kg
SAR(1 g) = 0.24 W/kg; SAR(10 g) = 0.166 W/kg
Maximum value of SAR (measured) = 0.312 W/kg

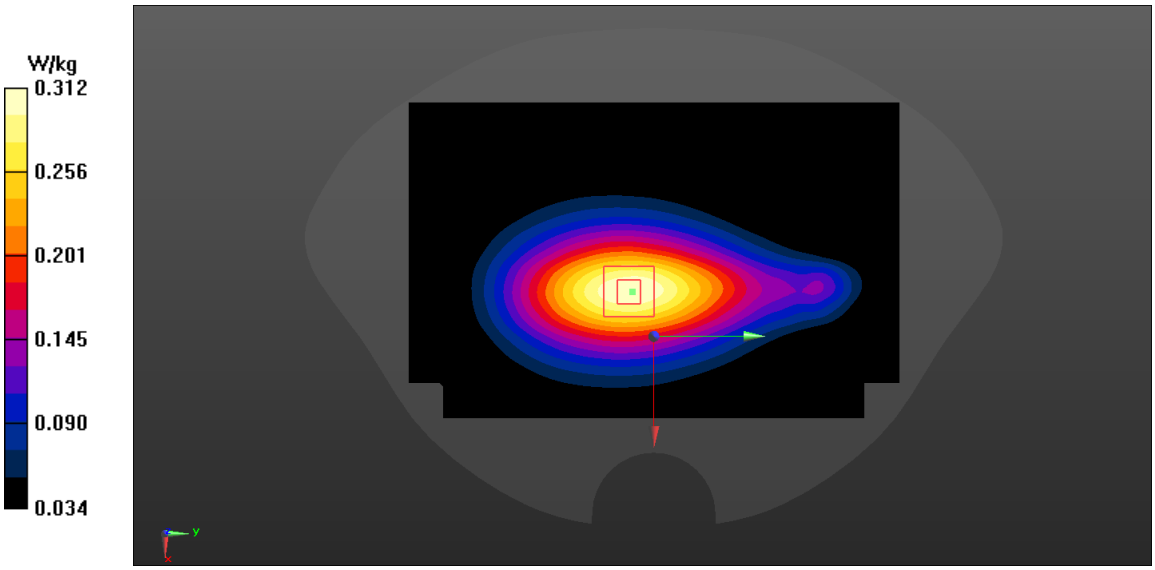


Fig A.20

LTE2600-TDD41 PC3_CH41055 1RB-Low Right Cheek
Date: 5/14/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2636.5 MHz; σ = 0.301 mho/m; εr = 41.84; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE2600-TDD41 2636.5 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.736 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.675 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.921 W/kg
SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.151 W/kg
Maximum value of SAR (measured) = 0.404 W/kg

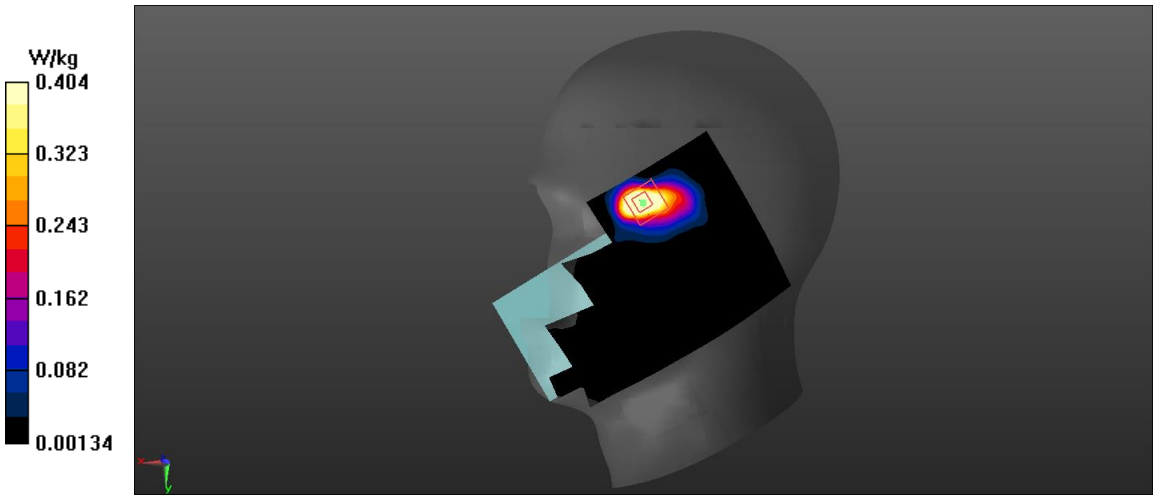


Fig A.21

LTE2600-TDD41 PC3_CH40185 1RB-Middle Left Edge 17mm
Date: 5/14/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2549.5 MHz; σ = 0.283 mho/m; εr = 40.52; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE2600-TDD41 2549.5 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.765 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.299 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.916 W/kg
SAR(1 g) = 0.484 W/kg; SAR(10 g) = 0.253 W/kg
Maximum value of SAR (measured) = 0.734 W/kg

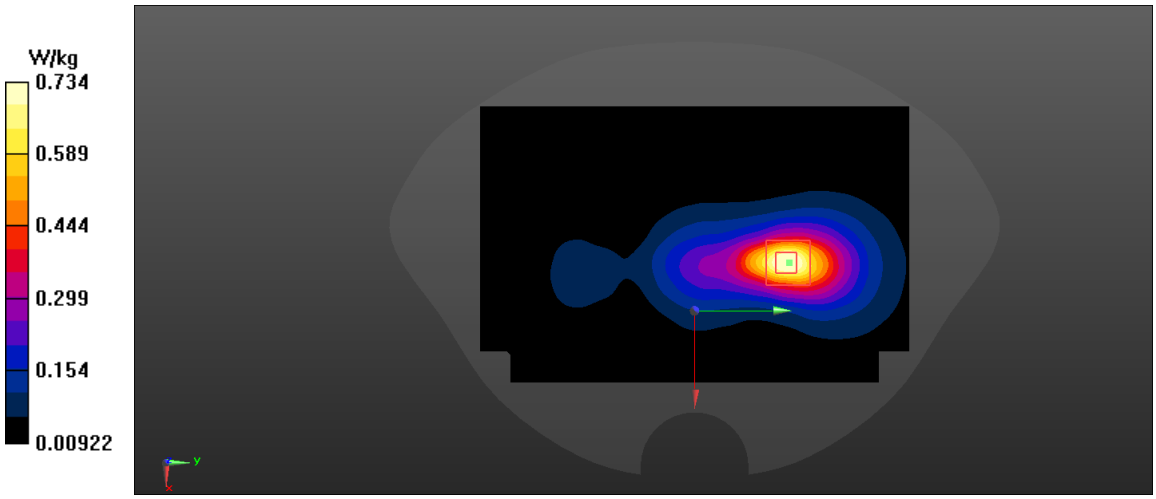


Fig A.22

LTE2600-TDD41 PC2_CH41055 50RB-Middle Right Cheek
Date: 5/14/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2636.5 MHz; σ = 0.301 mho/m; εr = 41.84; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE2600-TDD41 2636.5 MHz Duty Cycle: 1:2.309
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.559 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.566 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.702 W/kg
SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.116 W/kg
Maximum value of SAR (measured) = 0.310 W/kg

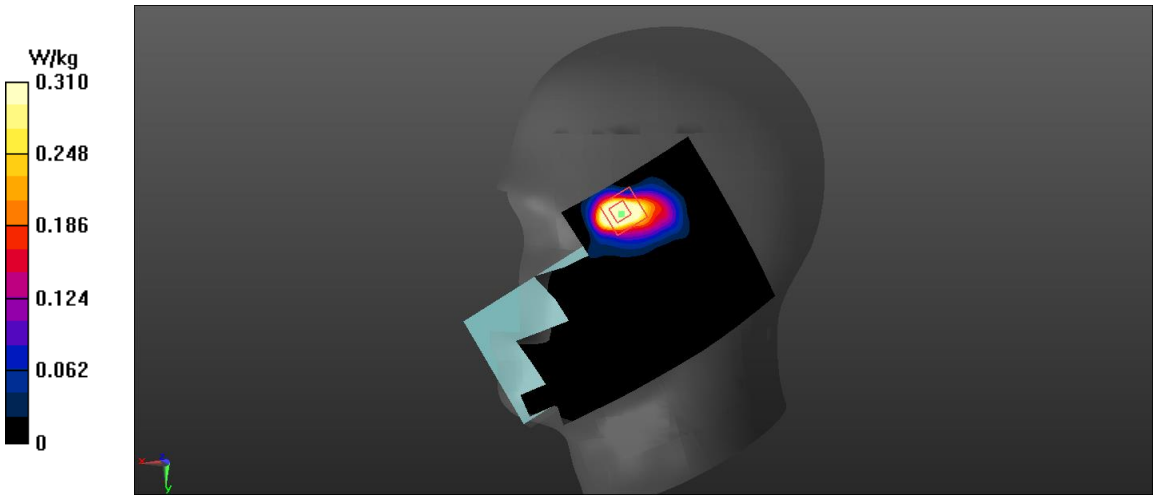


Fig A.23

LTE2600-TDD41 PC2_CH41055 50RB-Low Left Edge 17mm
Date: 5/14/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2636.5 MHz; σ = 0.283 mho/m; εr = 40.52; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE2600-TDD41 2636.5 MHz Duty Cycle: 1:2.309
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.611 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.704 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.724 W/kg
SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.191 W/kg
Maximum value of SAR (measured) = 0.572 W/kg

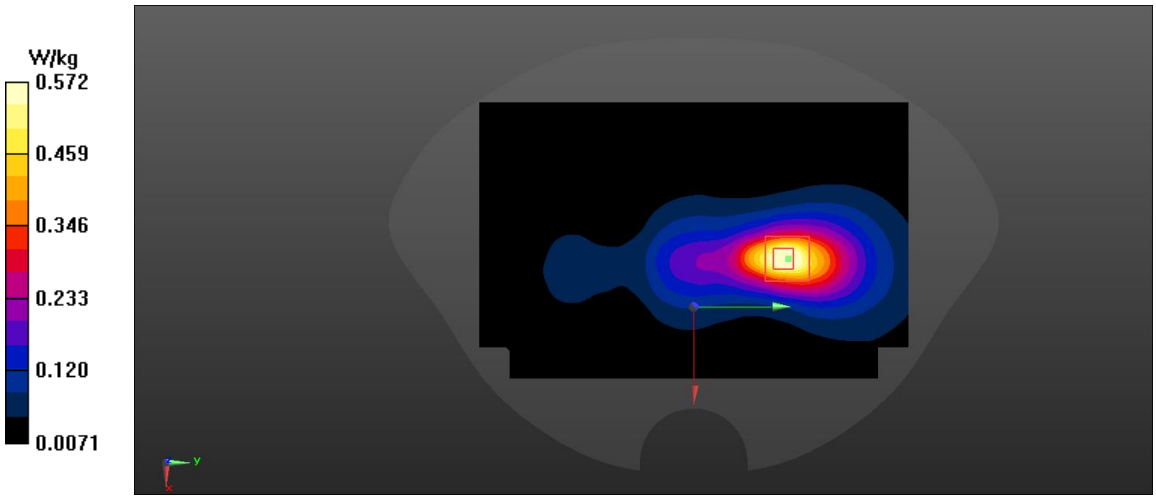


Fig A.24

LTE1700-FDD66_CH132072 1RB-Middle Right Tilt
Date: 5/10/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; σ = 0.517 mho/m; εr = 41.19; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.77 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.87 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.822 W/kg
SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.214 W/kg
Maximum value of SAR (measured) = 0.462 W/kg

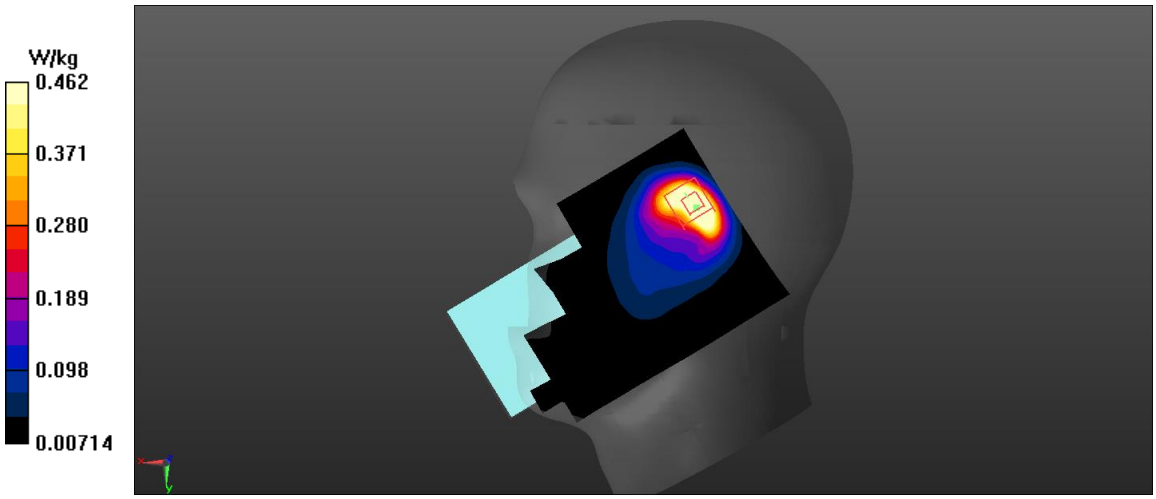


Fig A.25

LTE1700-FDD66_CH132072 1RB-Low Front 17mm
Date: 5/10/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; σ = 0.507 mho/m; εr = 41.11; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.365 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.32 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.414 W/kg
SAR(1 g) = 0.256 W/kg; SAR(10 g) = 0.164 W/kg
Maximum value of SAR (measured) = 0.357 W/kg

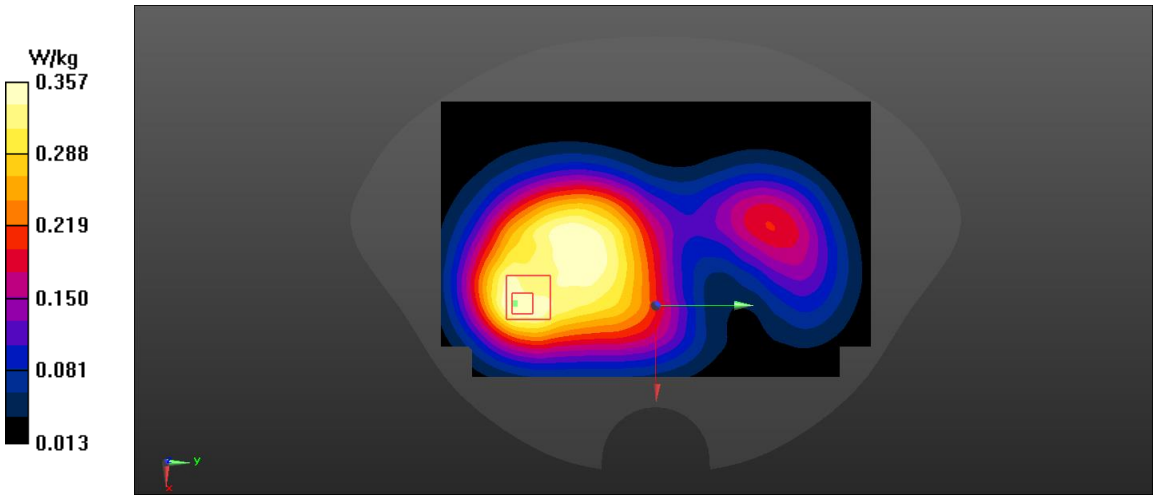


Fig A.26

LTE700-FDD71_CH133222 1RB-Low Left Cheek
Date: 5/6/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 673 MHz; σ = 0.984 mho/m; εr = 41.96; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE700-FDD71 673 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.106 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.893 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.117 W/kg
SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.069 W/kg
Maximum value of SAR (measured) = 0.107 W/kg

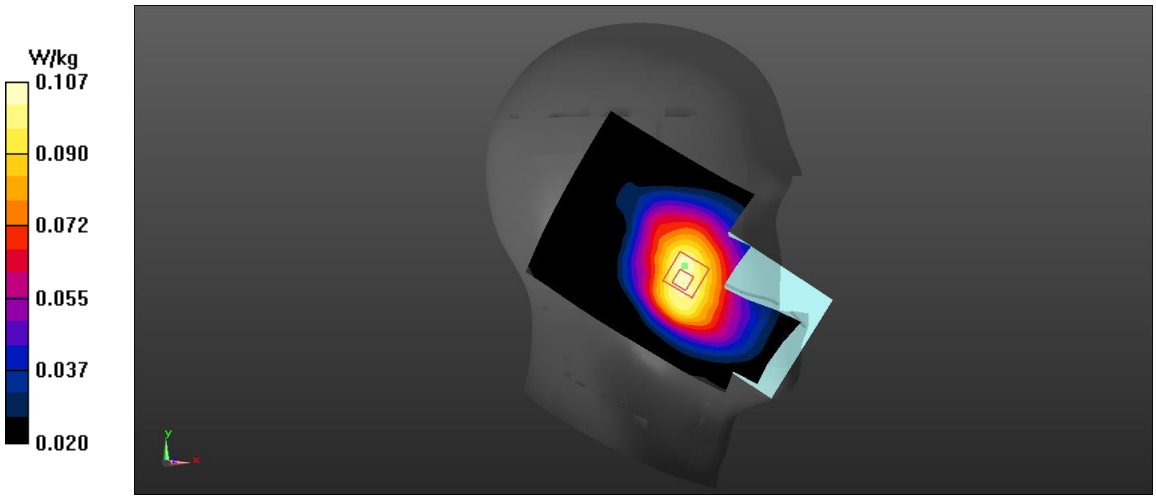


Fig A.27

LTE700-FDD71_CH133372 1RB-Low Right Edge 10mm
Date: 5/6/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 688 MHz; σ = 0.978 mho/m; εr = 41.48; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE700-FDD71 688 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.591 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.37 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.665 W/kg
SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.325 W/kg
Maximum value of SAR (measured) = 0.593 W/kg

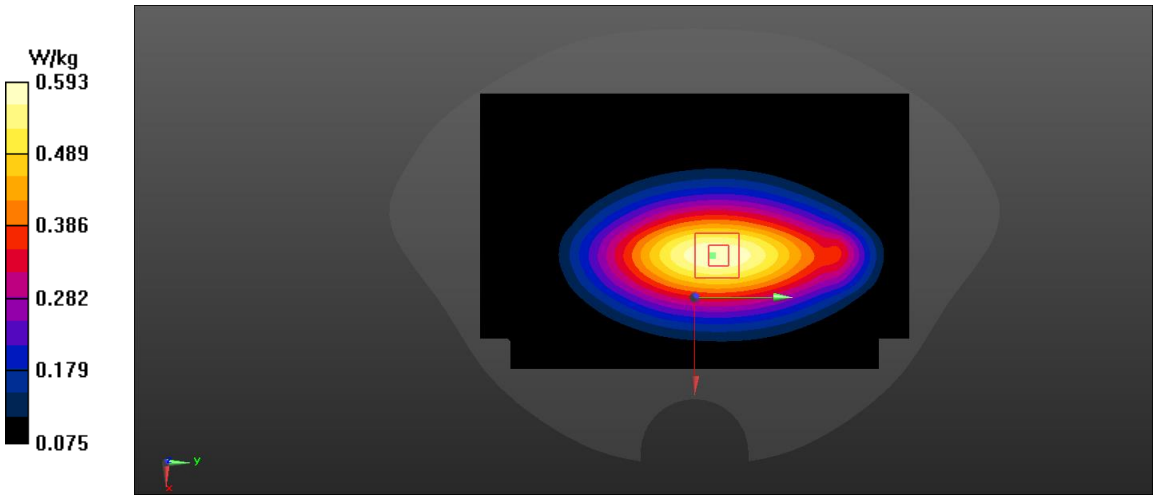


Fig A.28

WLAN2450_CH6 Left Cheek
Date: 5/15/2022
Electronics: DAE4 Sn549

Medium: head 2450 MHz
Medium parameters used: f = 2437 MHz; σ = 1.803 mho/m; εr = 39.34; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WLAN2450 2437 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.77,7.77,7.77)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.347 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.203 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.407 W/kg
SAR(1 g) = 0.197 W/kg; SAR(10 g) = 0.102 W/kg
Maximum value of SAR (measured) = 0.314 W/kg

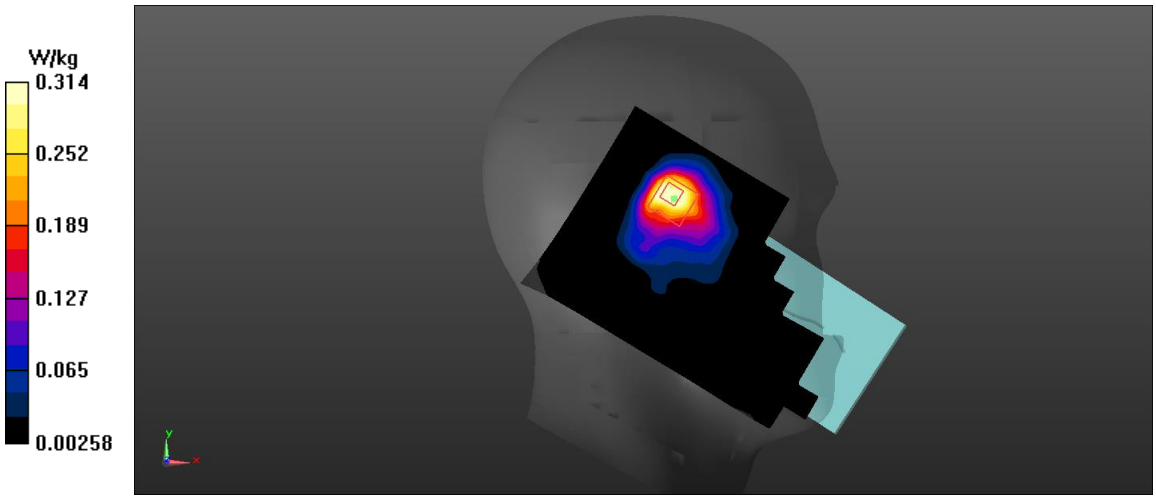


Fig A.29

WLAN2450_CH11 Top Edge 10mm

Date: 5/15/2022
Electronics: DAE4 Sn549
Medium: head 2450 MHz
Medium parameters used: f = 2462 MHz; σ = 1.813 mho/m; εr = 38.86; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WLAN2450 2462 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.77,7.77,7.77)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.398 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.35 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.469 W/kg
SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.127 W/kg
Maximum value of SAR (measured) = 0.384 W/kg

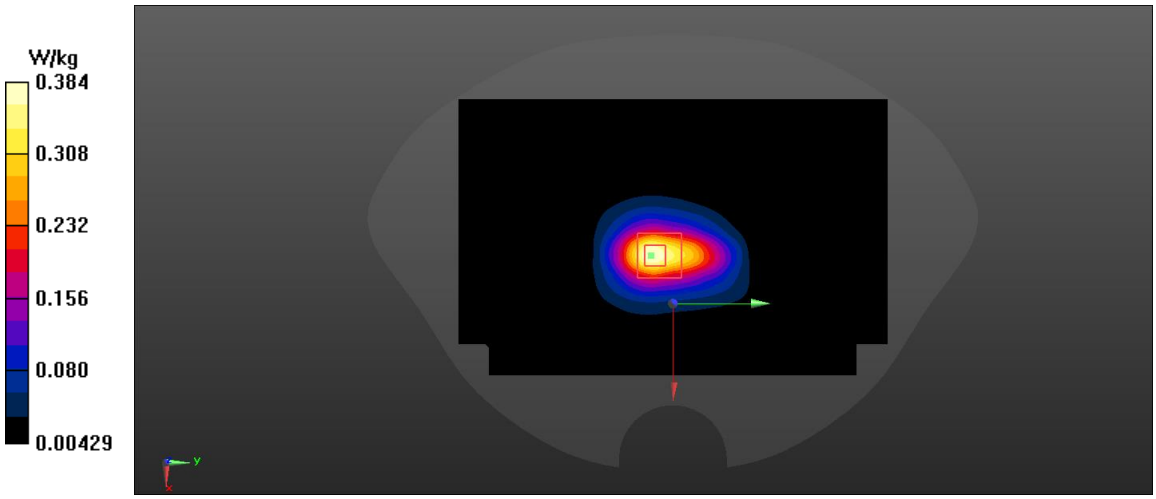


Fig A.30

UNII-3_CH155 Left Cheek

Date: 5/18/2022
Electronics: DAE4 Sn549
Medium: head 5750 MHz
Medium parameters used: f = 5775 MHz; σ = 5.178 mho/m; εr = 34.74; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: UNII-3 5775 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(4.85,4.85,4.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.555 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.157 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.528 W/kg
SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.041 W/kg
Maximum value of SAR (measured) = 0.326 W/kg

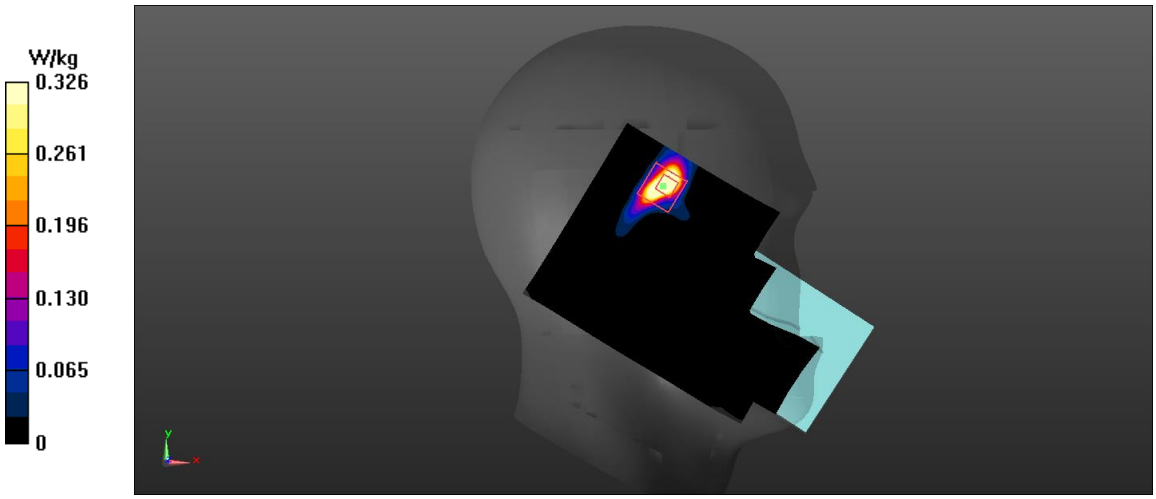


Fig A.31

UNII-3_CH165 Right Edge 10mm

Date: 5/18/2022
Electronics: DAE4 Sn549
Medium: head 5750 MHz
Medium parameters used: f = 5825 MHz; σ = 5.308 mho/m; εr = 35.21; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: UNII-3 5825 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(4.85,4.85,4.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.743 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.16 W/kg
Maximum value of SAR (measured) = 0.525 W/kg

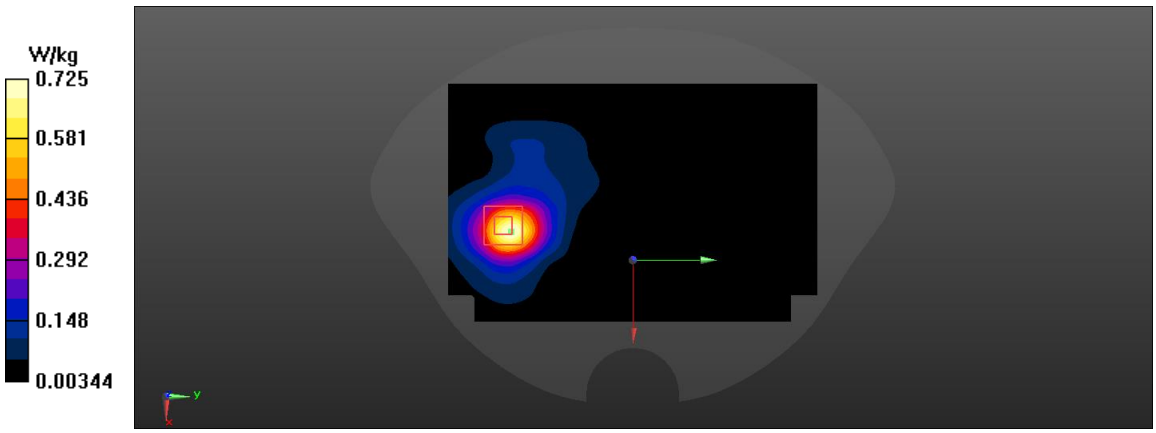


Fig A.32

n25_CH376500 Right Tilt

Date: 5/20/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1882.5; σ = 1.387 mho/m; εr = 39.383; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n25 1882.5 MHz Duty Cycle:1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.189 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.141 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.584 W/kg; SAR(10 g) = 0.3231 W/kg
Maximum value of SAR (measured) = 0.707 W/kg

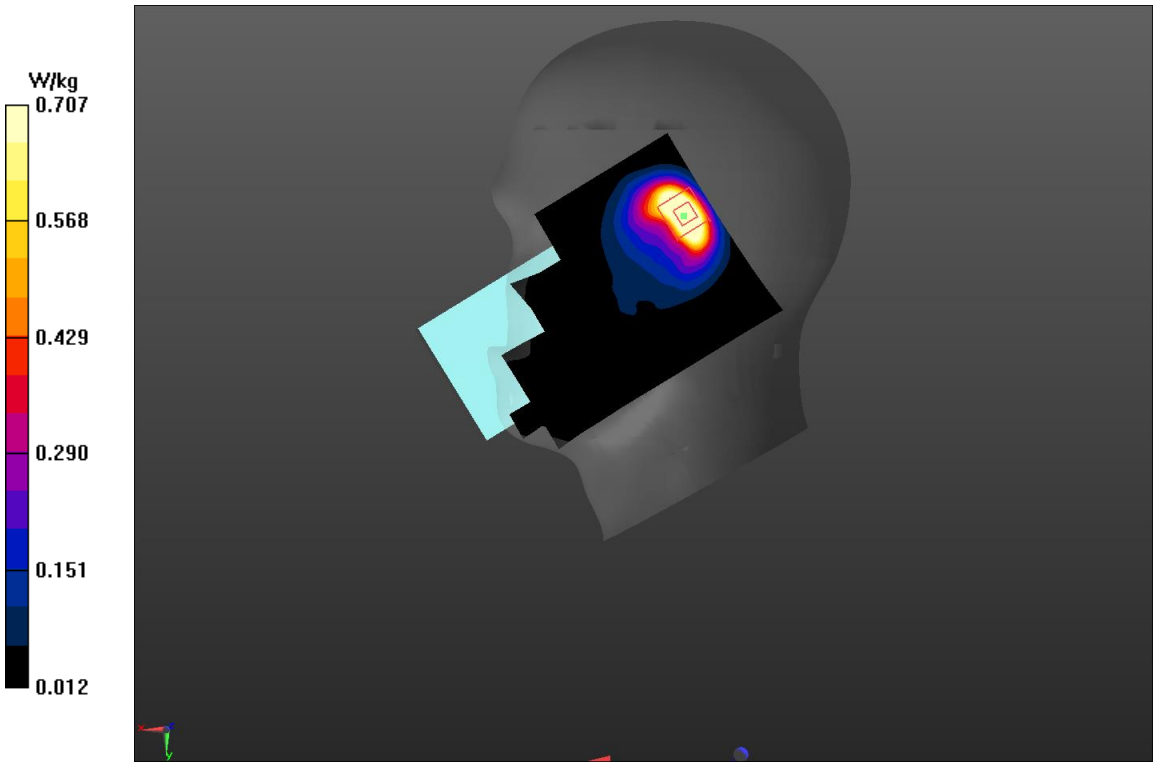


Fig A.33

n25_CH376500 Front 17mm
Date: 5/20/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1882.5; σ = 1.361 mho/m; εr = 40.5; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n25 1882.5 Duty Cycle:1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (91x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.515 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.78 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.599 W/kg
SAR(1 g) = 0.355 W/kg; SAR(10 g) = 0.214 W/kg
Maximum value of SAR (measured) = 0.507 W/kg

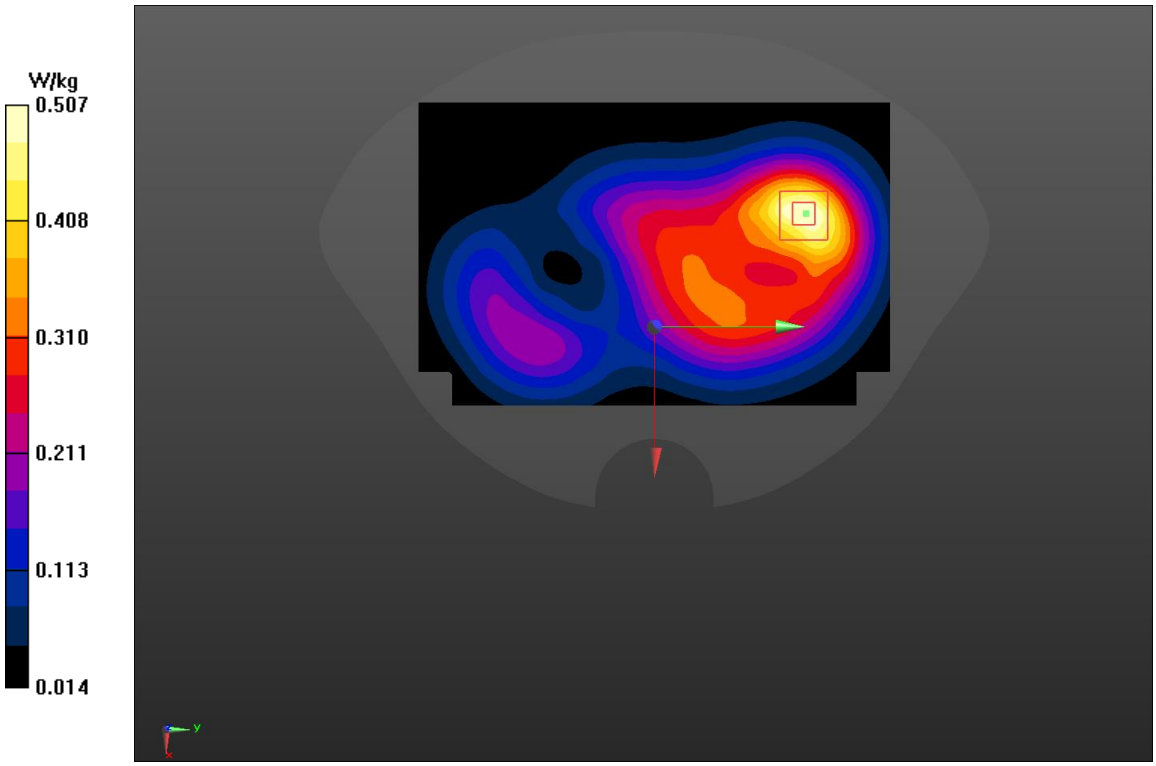


Fig A.34

n66_CH344000 Right Cheek
Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1720; σ = 1.318 mho/m; εr = 40.07; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n66 1720 Duty Cycle:1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.716 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.80 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.791 W/kg
SAR(1 g) = 0.432 W/kg; SAR(10 g) = 0.237 W/kg
Maximum value of SAR (measured) = 0.462 W/kg

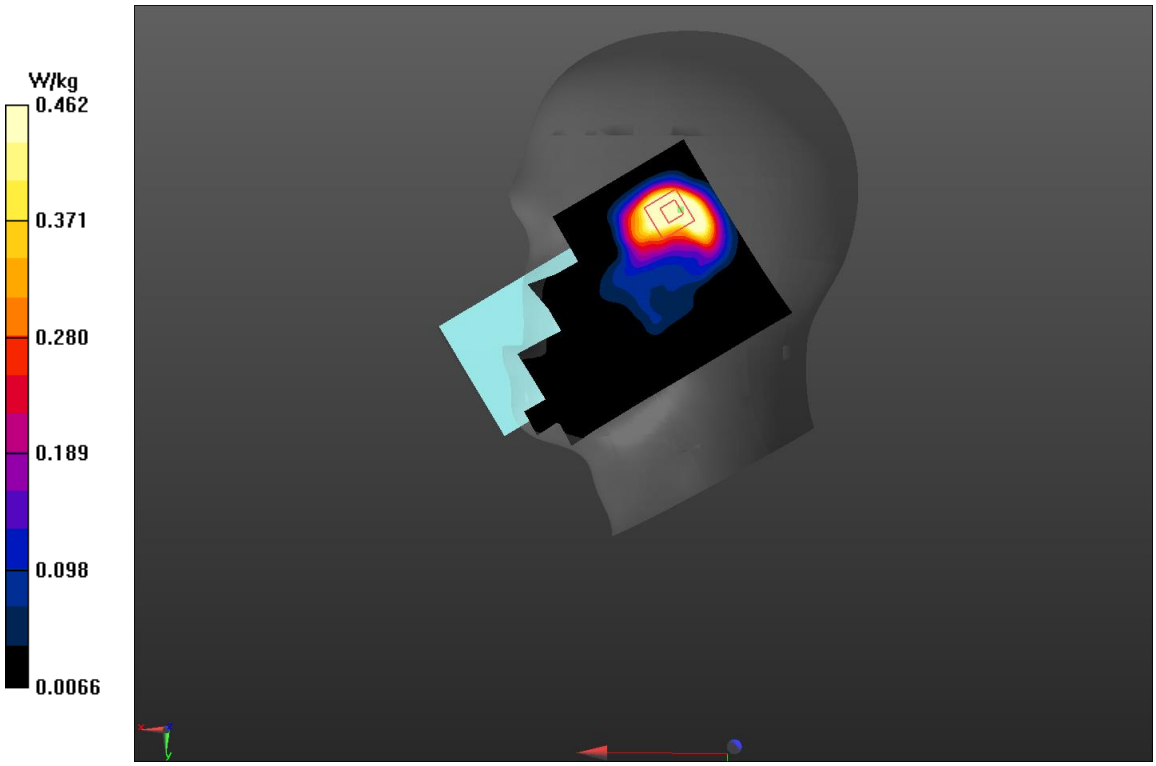


Fig A.35

n66_CH349000 Front 17mm
Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1745; σ = 1.371 mho/m; εr = 39.773; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n66 1745 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.3821 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.314 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.418 W/kg
SAR(1 g) = 0.254 W/kg; SAR(10 g) = 0.159 W/kg
Maximum value of SAR (measured) = 0.358 W/kg

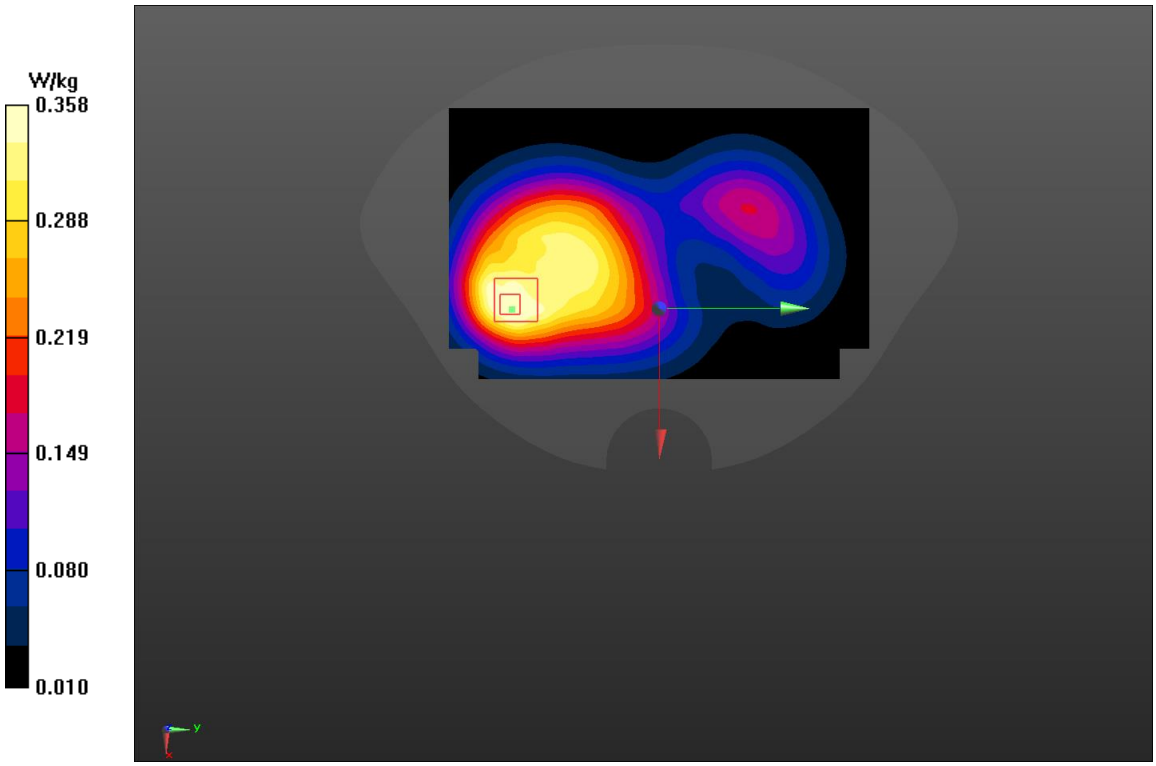


Fig A.36

n71_CH136100 Right Cheek
Date: 5/18/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 680.5; σ = 11.65 mho/m; εr = 28.488; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n71 680.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.2581 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.535 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.264 W/kg
SAR(1 g) = 0.210 W/kg; SAR(10 g) = 0.161 W/kg
Maximum value of SAR (measured) = 0.358 W/kg

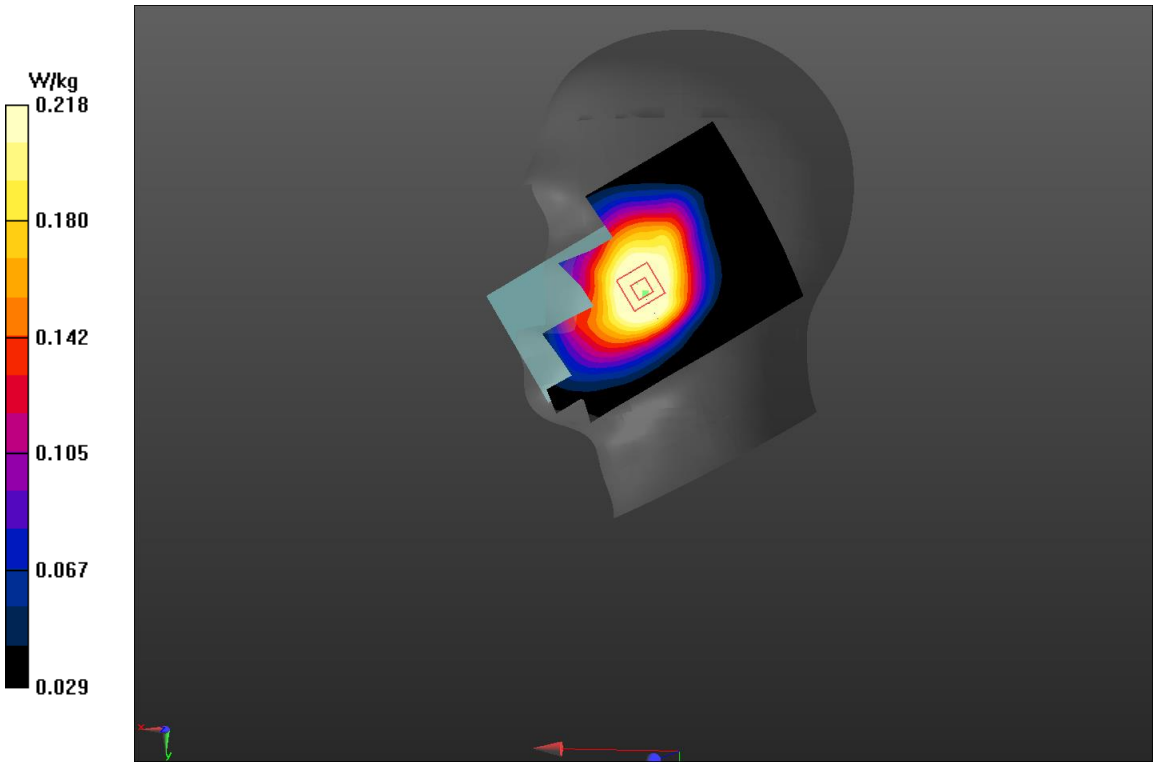


Fig A.37

n71_CH136100 Right Edge 10mm
Date: 5/18/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 680.5; σ = 11.644 mho/m; εr = 28.02; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n71 680.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.548 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.531 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.618 W/kg
SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.300 W/kg
Maximum value of SAR (measured) = 0.554 W/kg

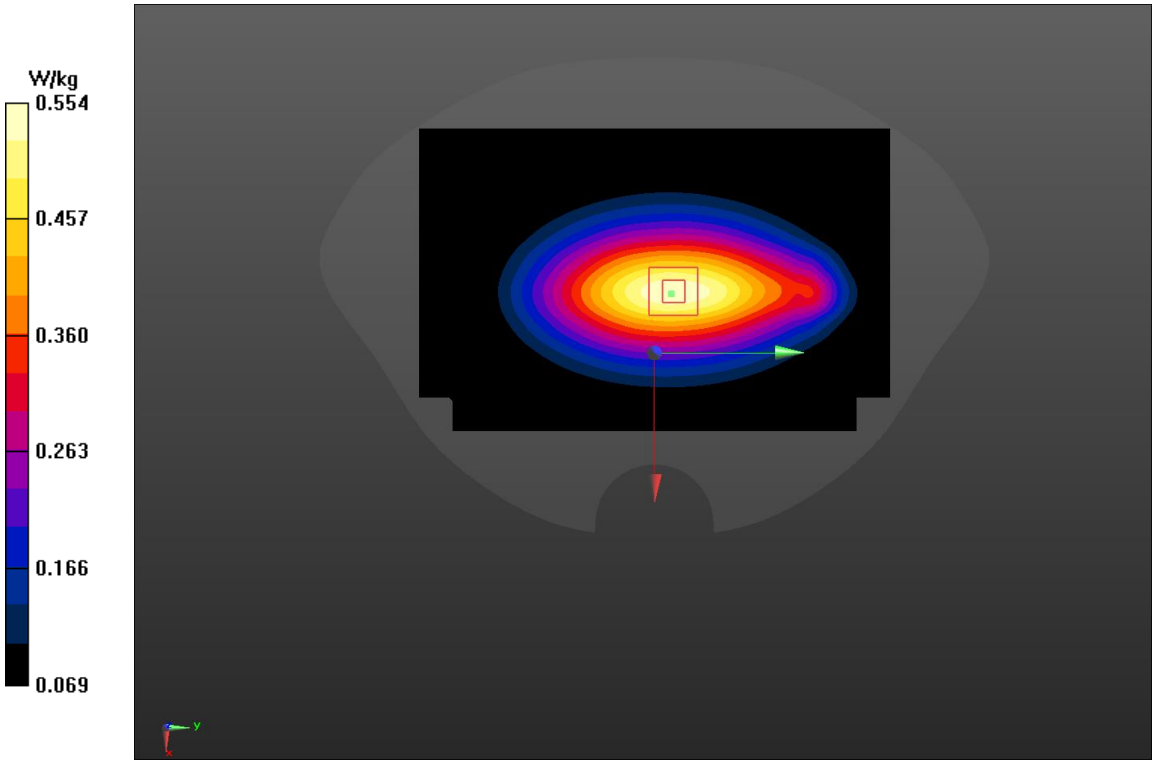


Fig A.38

n41 pc2_CH518598 Right Cheek
Date: 5/21/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2592.98; σ = 1.958 mho/m; εr =37.873 ; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n41 pc2 2592.99 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.27 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.553 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.611 W/kg
SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.292 W/kg
Maximum value of SAR (measured) = 0.757 W/kg

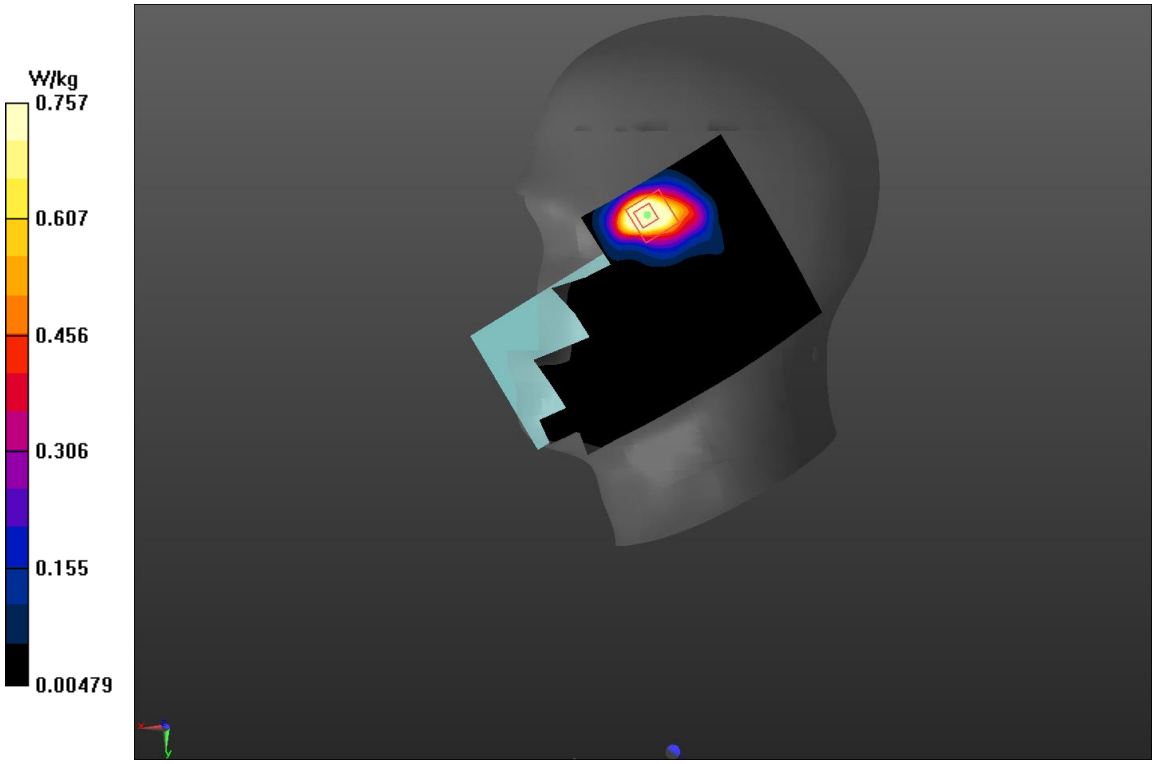


Fig A.39

n41 pc2_CH518598 Left Edge 17mm
Date: 5/21/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2592.99; σ = 0.947 mho/m; εr = 41.047; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n41 pc2 2592.99 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.3291 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.549 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.404 W/kg
SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.107 W/kg
Maximum value of SAR (measured) = 0.329 W/kg

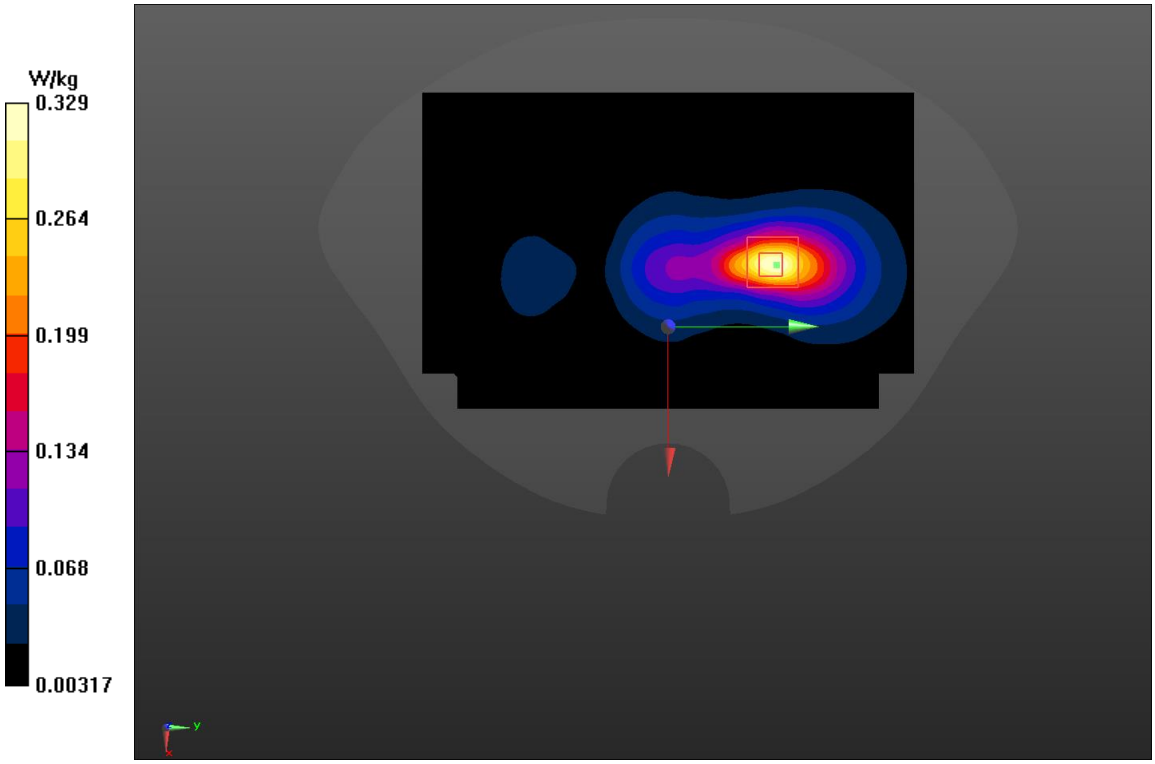


Fig A.40

n77 pc2_CH636000 Left Tilt
Date: 5/22/2022
Electronics: DAE4 Sn549
Medium: head 3500 MHz
Medium parameters used: f = 3540; σ = 2.991 mho/m; εr = 35.809; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n77 pc2 3540 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(7.20,7.20,7.20)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.837 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.924 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.689 W/kg
SAR(1 g) = 0.565 W/kg; SAR(10 g) = 0.204 W/kg
Maximum value of SAR (measured) = 1.92 W/kg

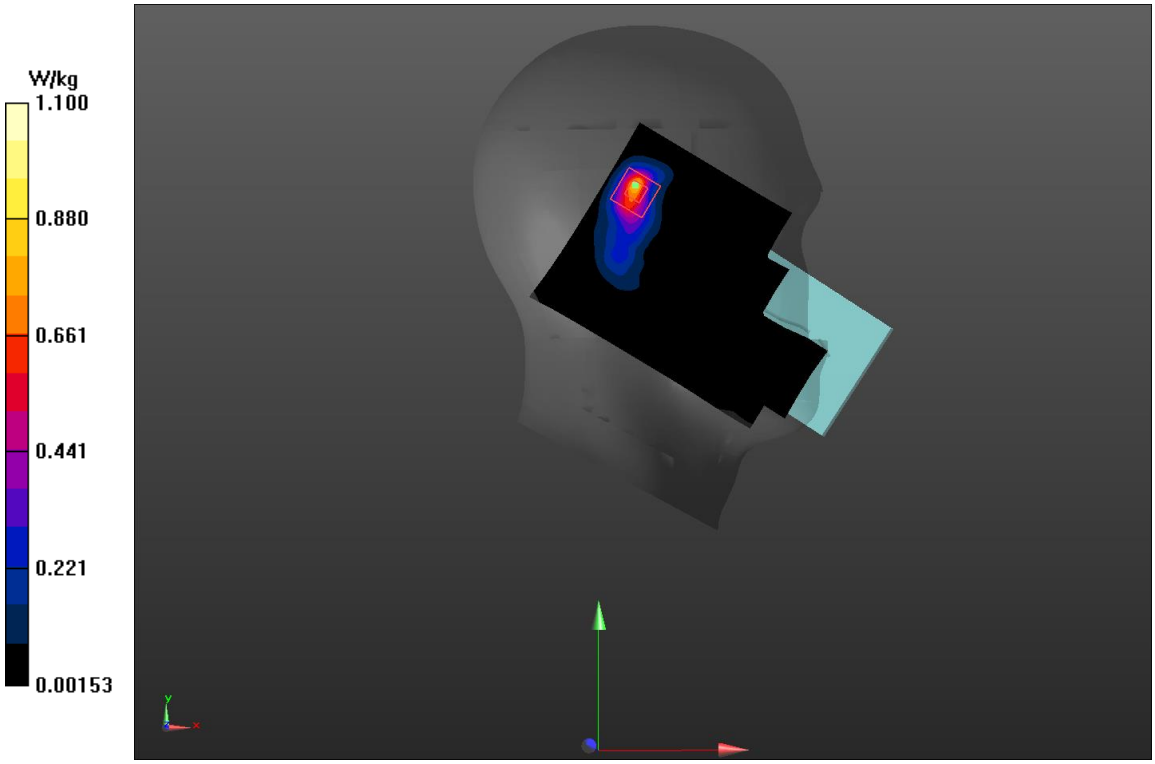


Fig A.41

n77 pc2_CH633334 Top Edge 21mm
Date: 5/22/2022
Electronics: DAE4 Sn549
Medium: head 3500 MHz
Medium parameters used: f = 3500; σ = 2.723 mho/m; εr = 36.121; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n77 pc2 3500.01 MHz Duty Cycle:1:2
Probe: EX3DV4 – SN7464 ConvF(7.20,7.20,7.20)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.967 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 12.57 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.569 W/kg; SAR(10 g) = 0.285 W/kg
Maximum value of SAR (measured) = 0.941 W/kg

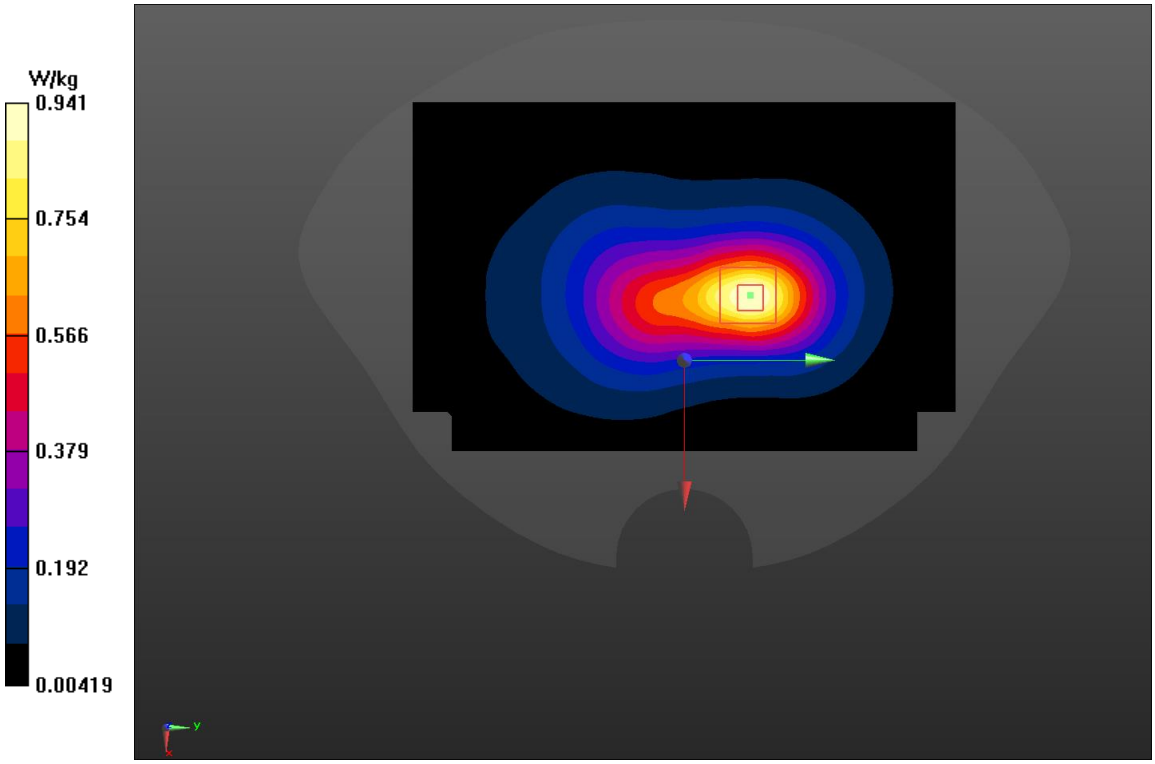


Fig A.42

n77 pc2_CH654267 Left Tilt
Date: 5/23/2022
Electronics: DAE4 Sn549
Medium: head 3900 MHz
Medium parameters used: f = 3814; σ = 2.991 mho/m; εr = 35.809 ; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n77 pc2 3814 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(6.76,6.76,6.76)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.62 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.176 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.60 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.368 W/kg
Maximum value of SAR (measured) = 1.92 W/kg

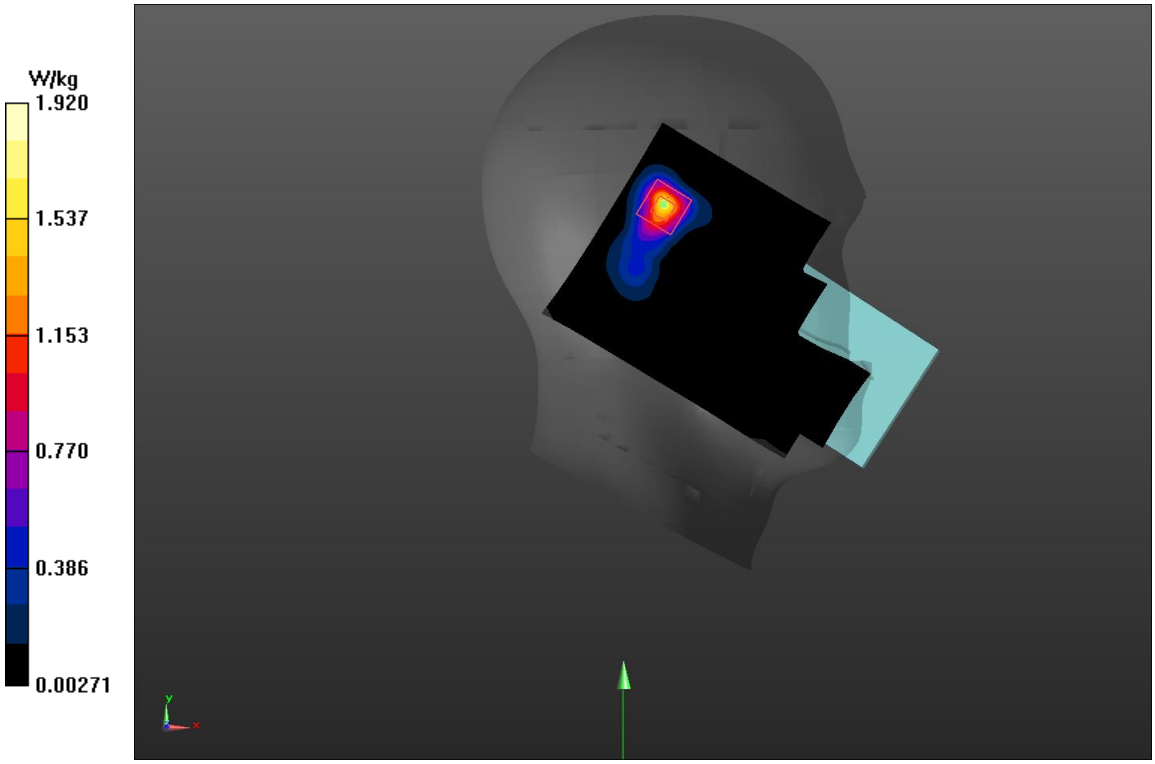


Fig A.43

n77 pc2_CH650800 Top Edge 21mm
Date: 5/23/2022
Electronics: DAE4 Sn549
Medium: head 3900 MHz
Medium parameters used: f = 3762; σ = 2.943 mho/m; εr = 35.791; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n77 pc2 3762 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(6.76,6.76,6.76)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.46 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.74 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 0.868 W/kg; SAR(10 g) = 0.425 W/kg
Maximum value of SAR (measured) = 1.48 W/kg

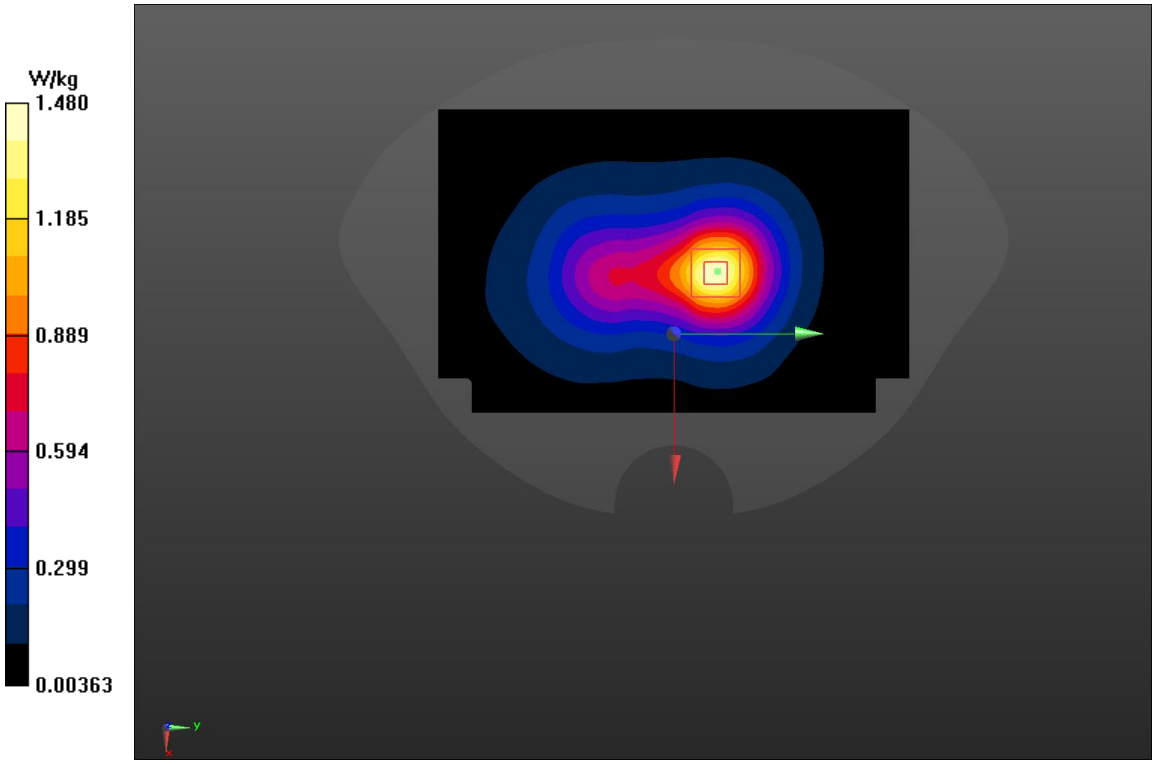


Fig A.44

LTE1900-FDD2_CH18900 Right Cheek 1RB-Low
Date: 5/20/2022

Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.356 mho/m; εr = 39.97; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE1900-FDD2 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.16 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.23 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.066 W/kg
Maximum value of SAR (measured) = 0.261 W/kg

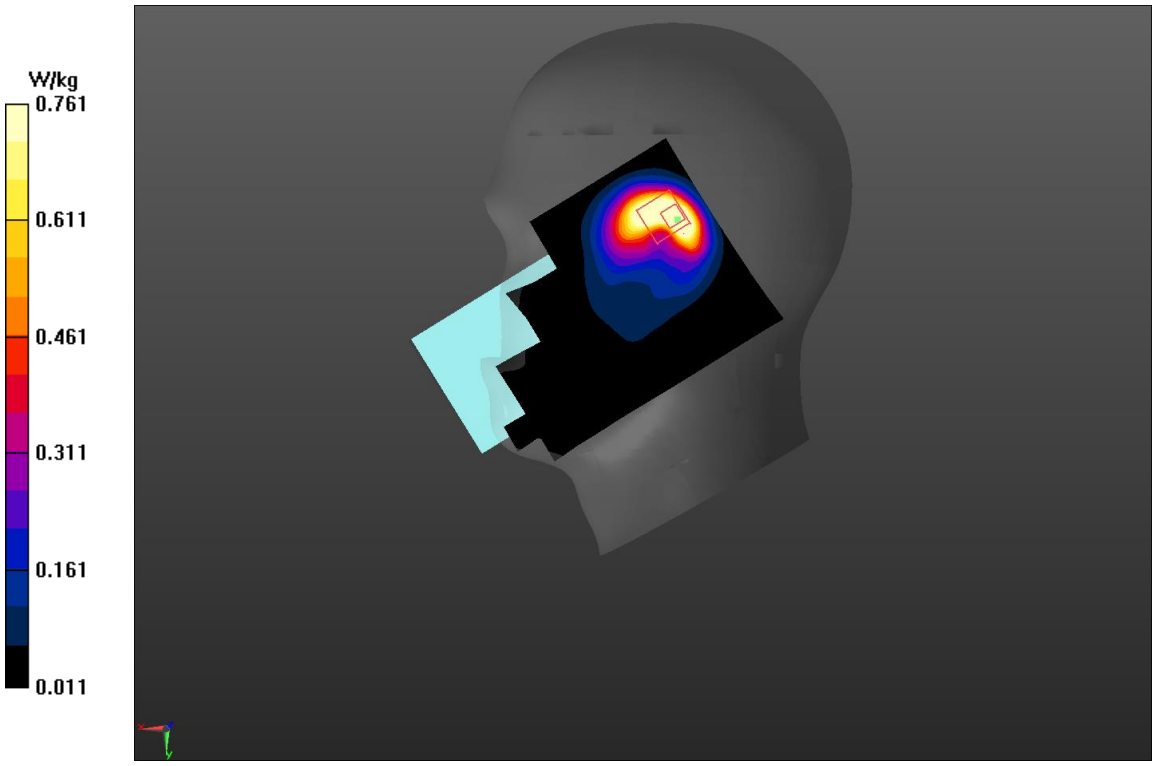


Fig A.45

LTE1900-FDD2_CH18900 Right Edge 10mm 1RB-Low
Date: 5/20/2022
Electronics: DAE4 Sn549
Medium: body 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.507 mho/m; εr = 52.89; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE1900-FDD2 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.121 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.576 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.139 W/kg
SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.107 W/kg
Maximum value of SAR (measured) = 0.318 W/kg

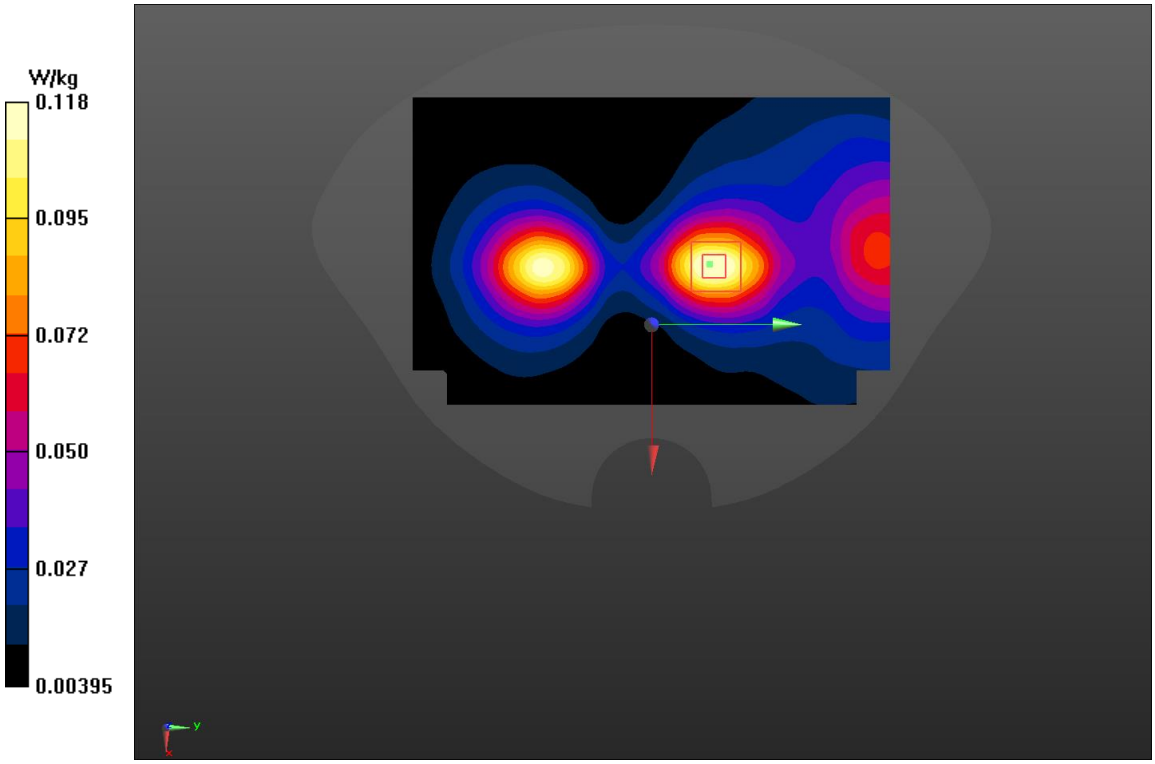


Fig A.46

LTE1700-FDD66_CH132322 Right Cheek 1RB-Low
Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.504 mho/m; εr = 40.05; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.754 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.12 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.933 W/kg
SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.109 W/kg
Maximum value of SAR (measured) = 0.232 W/kg

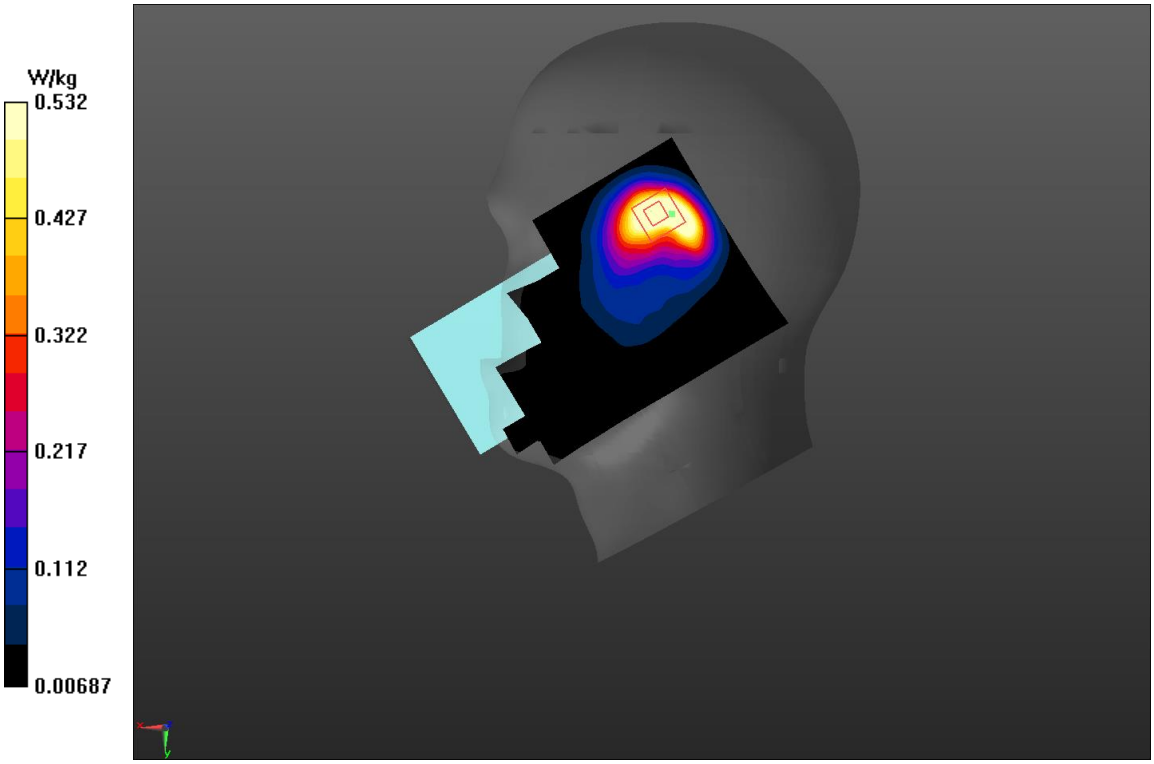


Fig A.47

LTE1700-FDD66_CH132072 Right Edge 10mm 1RB-Low
Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: body 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.616 mho/m; εr = 52.79; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.277 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.945 V/m; Power Drift = -0.2 dB
Peak SAR (extrapolated) = 0.316 W/kg
SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.118 W/kg
Maximum value of SAR (measured) = 0.270 W/kg

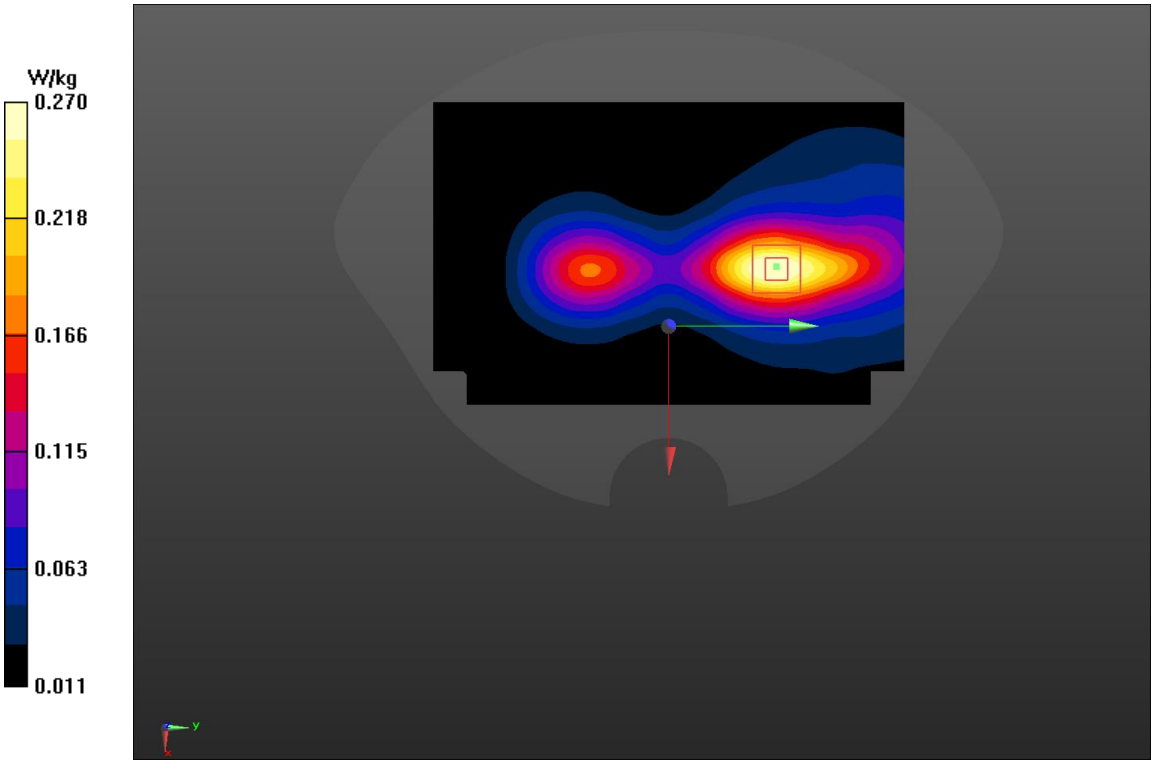


Fig A.48

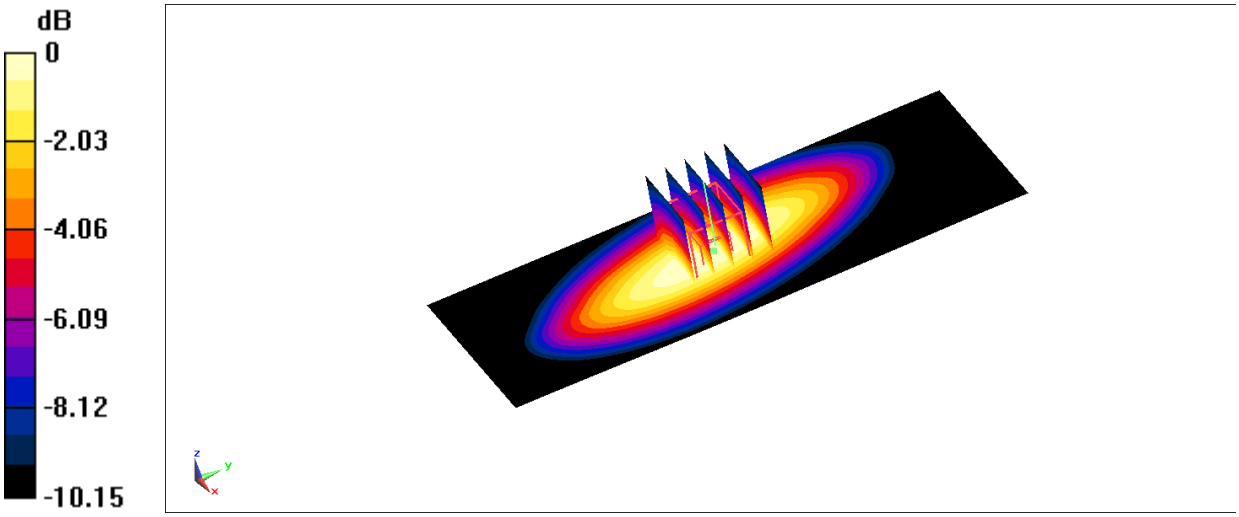
ANNEX B System Verification Results

750 MHz

Date: 5/5/2022
Electronics: DAE4 Sn549
Medium: Head 750 MHz
Medium parameters used: f = 750 MHz; σ =0.897 mho/m; ε_r = 42.07; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC Liquid Temperature: 22.3ºC
Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 58.99 V/m; Power Drift = -0.1
Fast SAR: SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.4 W/kg
Maximum value of SAR (interpolated) = 2.81 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =58.99 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 3.3 W/kg
SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.4 W/kg
Maximum value of SAR (measured) = 2.92 W/kg



0 dB = 2.90 W/kg = 4.62 dBW/kg

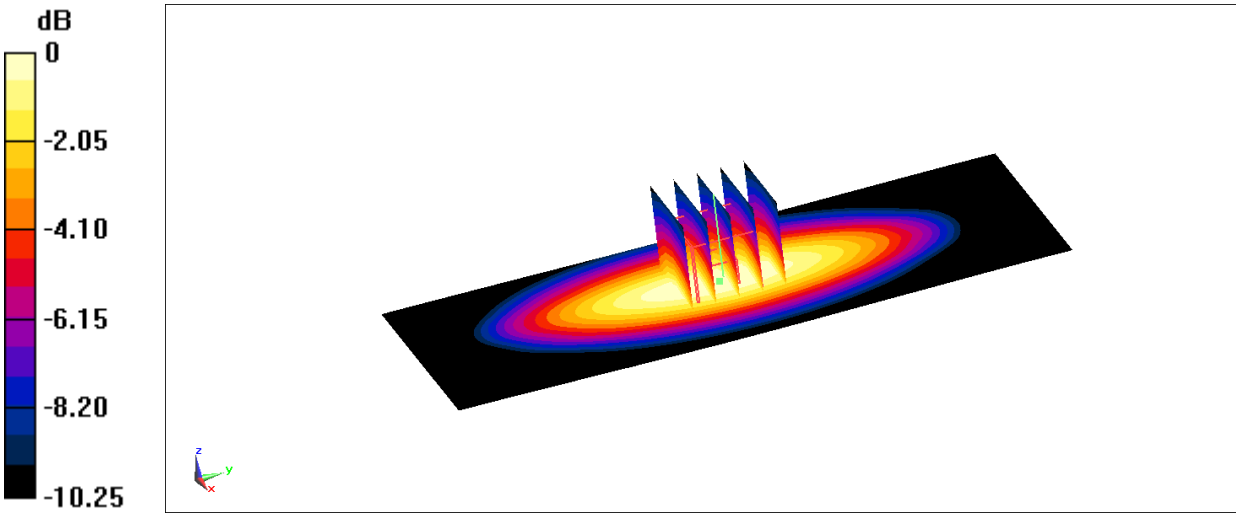
Fig.B.1 validation 750 MHz 250mW

750 MHz

Date: 5/6/2022
Electronics: DAE4 Sn549
Medium: Head 750 MHz
Medium parameters used: f = 750 MHz; σ =0.874 mho/m; ε_r = 41.89; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 59.75 V/m; Power Drift = -0.05
Fast SAR: SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.41 W/kg
Maximum value of SAR (interpolated) = 2.83 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =59.75 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 3.3 W/kg
SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.44 W/kg
Maximum value of SAR (measured) = 2.90 W/kg



0 dB = 3.07 W/kg = 4.87 dBW/kg

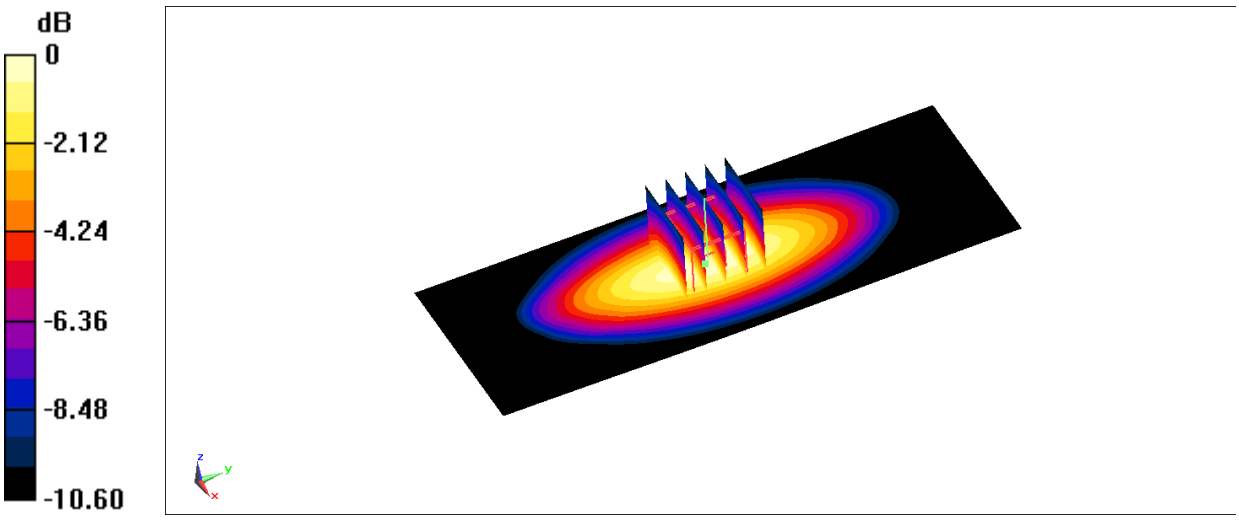
Fig.B.2 validation 750 MHz 250mW

835 MHz

Date: 5/7/2022
Electronics: DAE4 Sn549
Medium: Head 835 MHz
Medium parameters used: f = 835 MHz; σ =0.903 mho/m; ε_r = 40.84; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC Liquid Temperature: 22.3ºC
Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 62.6 V/m; Power Drift = -0.04
Fast SAR: SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.55 W/kg
Maximum value of SAR (interpolated) = 3.2 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =62.6 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.62 W/kg
SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.62 W/kg
Maximum value of SAR (measured) = 3.27 W/kg



0 dB = 3.27 W/kg = 5.15 dBW/kg

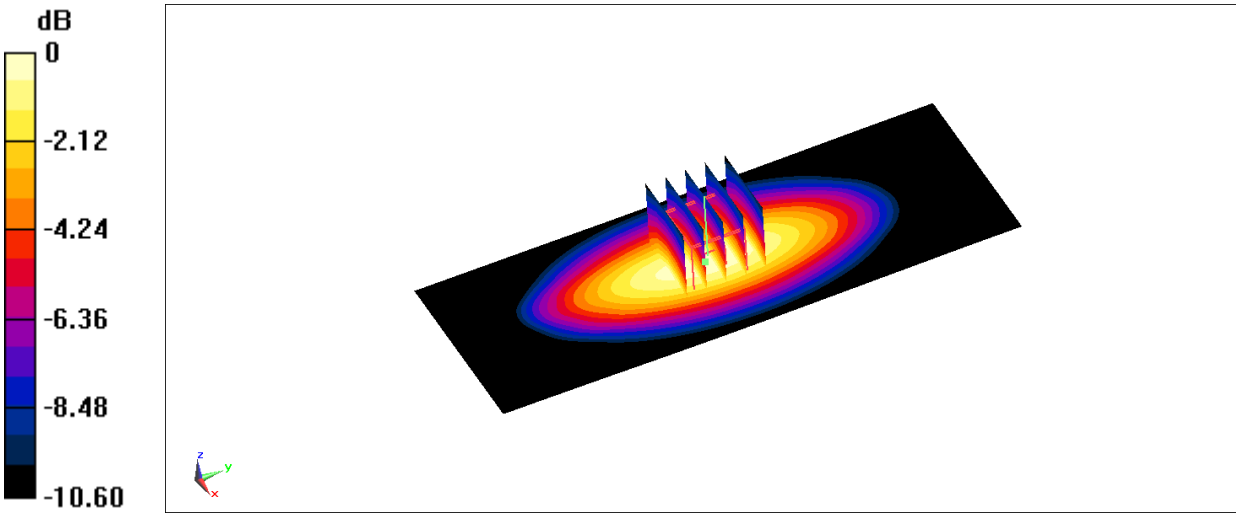
Fig.B.3 validation 835 MHz 250mW

835 MHz

Date: 5/8/2022
Electronics: DAE4 Sn549
Medium: Head 835 MHz
Medium parameters used: f = 835 MHz; σ =0.886 mho/m; ε_r = 42; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 61.99 V/m; Power Drift = -0.02
Fast SAR: SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.54 W/kg
Maximum value of SAR (interpolated) = 3.14 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =61.99 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.72 W/kg
SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.62 W/kg
Maximum value of SAR (measured) = 3.27 W/kg



0 dB = 3.27 W/kg = 5.15 dBW/kg

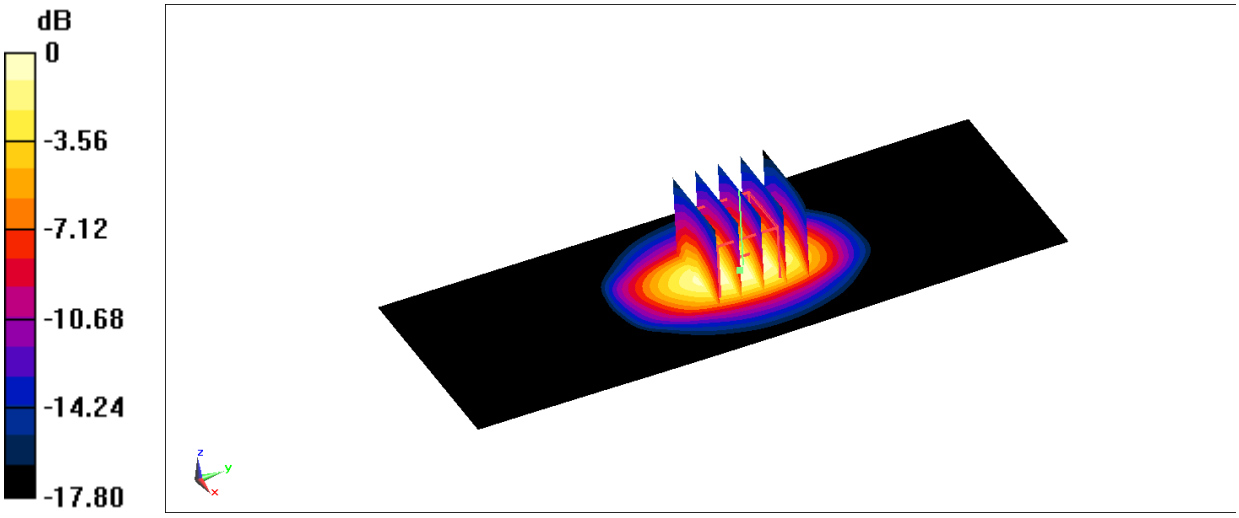
Fig.B.4 validation 835 MHz 250mW

1750 MHz

Date: 5/9/2022
Electronics: DAE4 Sn549
Medium: Head 1750 MHz
Medium parameters used: f = 1750 MHz; σ =1.38 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 105.48 V/m; Power Drift = -0.05
Fast SAR: SAR(1 g) = 8.96 W/kg; SAR(10 g) = 4.75 W/kg
Maximum value of SAR (interpolated) = 14.3 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =105.48 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 16.63 W/kg
SAR(1 g) = 9.94 W/kg; SAR(10 g) = 5.24 W/kg
Maximum value of SAR (measured) = 15.0 W/kg



0 dB = 15.0 W/kg = 11.76 dBW/kg

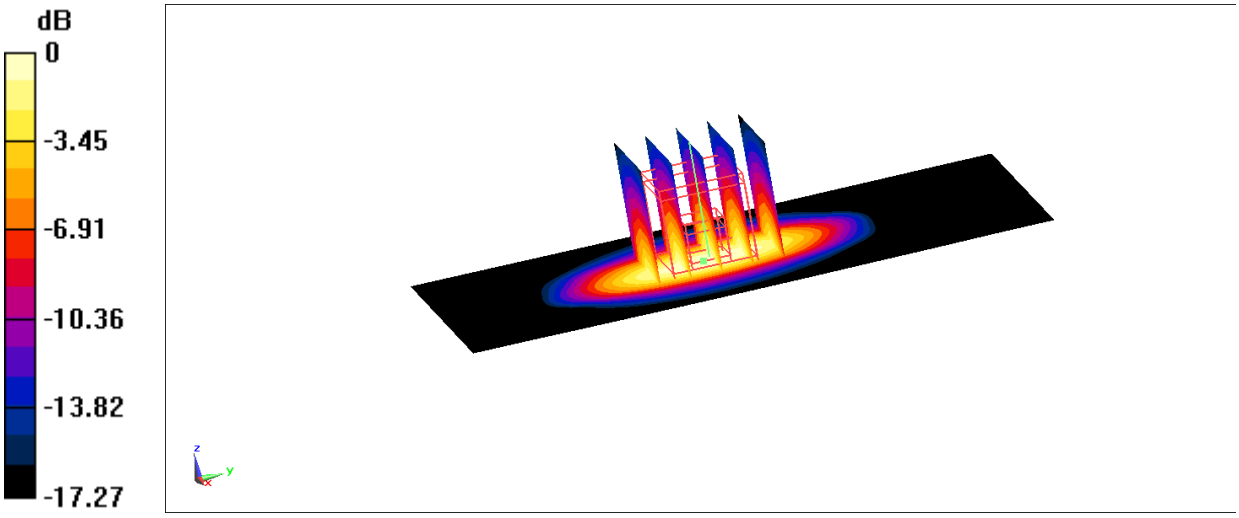
Fig.B.5 validation 1750 MHz 250mW

1750 MHz

Date: 5/10/2022
Electronics: DAE4 Sn549
Medium: Head 1750 MHz
Medium parameters used: f = 1750 MHz; σ =1.37 mho/m; ε_r = 40.02; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC Liquid Temperature: 22.3ºC
Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 105.7 V/m; Power Drift = -0.09
Fast SAR: SAR(1 g) = 9.08 W/kg; SAR(10 g) = 4.77 W/kg
Maximum value of SAR (interpolated) = 14.14 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =105.7 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 17.12 W/kg
SAR(1 g) = 8.95 W/kg; SAR(10 g) = 4.76 W/kg
Maximum value of SAR (measured) = 13.4 W/kg



0 dB = 13.4 W/kg = 11.27 dBW/kg

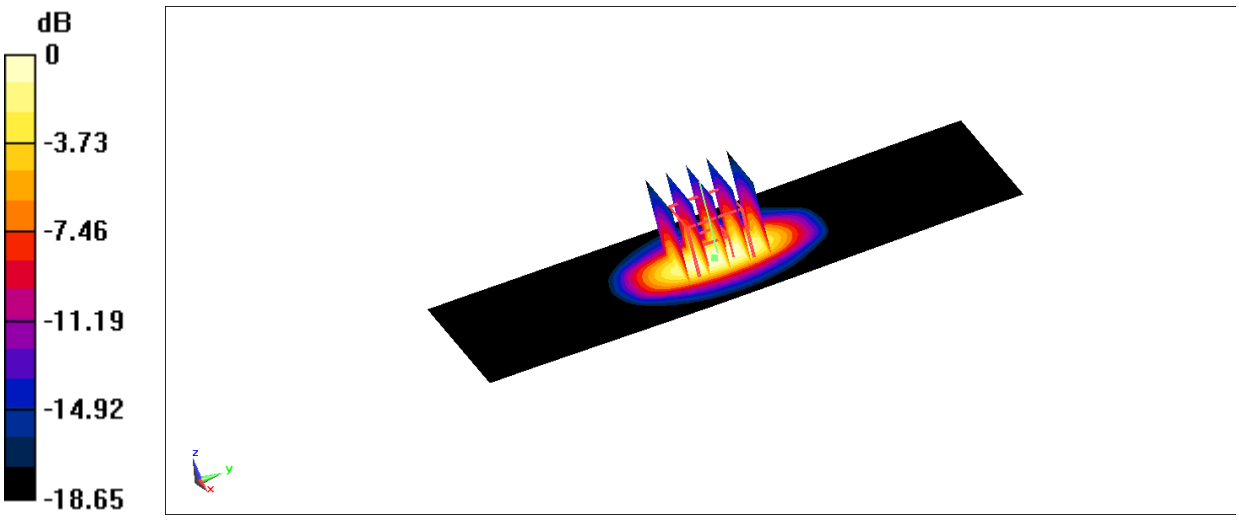
Fig.B.6 validation 1750 MHz 250mW

1900 MHz

Date: 5/11/2022
Electronics: DAE4 Sn549
Medium: Head 1900 MHz
Medium parameters used: f = 1900 MHz; σ =1.397 mho/m; ε_r = 39.44; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 110.77 V/m; Power Drift = -0.08
Fast SAR: SAR(1 g) = 9.9 W/kg; SAR(10 g) = 5.11 W/kg
Maximum value of SAR (interpolated) = 15.39 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =110.77 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 18.13 W/kg
SAR(1 g) = 10.9 W/kg; SAR(10 g) = 5.62 W/kg
Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.17 dBW/kg

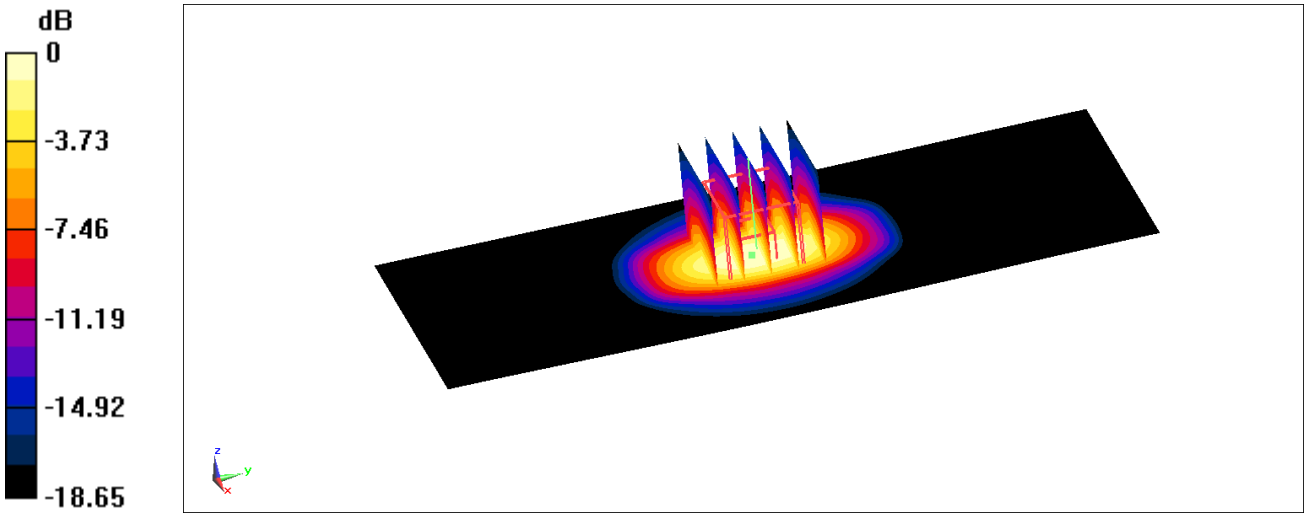
Fig.B.7 validation 1900 MHz 250mW

1900 MHz

Date: 5/12/2022
Electronics: DAE4 Sn549
Medium: Head 1900 MHz
Medium parameters used: f = 1900 MHz; σ =1.392 mho/m; ε_r = 40.33; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 109.03 V/m; Power Drift = 0.05
Fast SAR: SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.07 W/kg
Maximum value of SAR (interpolated) = 15.31 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =109.03 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 18.17 W/kg
SAR(1 g) = 9.77 W/kg; SAR(10 g) = 5.07 W/kg
Maximum value of SAR (measured) = 15.06 W/kg



0 dB = 15.06 W/kg = 11.78 dB W/kg

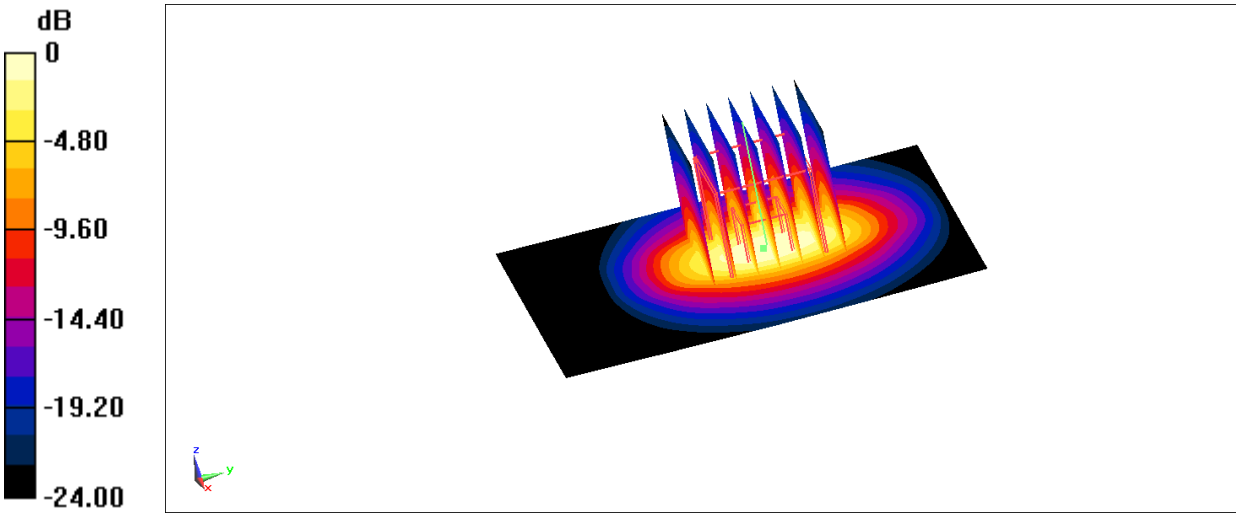
Fig.B.8 validation 1900 MHz 250mW

2600 MHz

Date: 5/13/2022
Electronics: DAE4 Sn549
Medium: Head 2600 MHz
Medium parameters used: f = 2600 MHz; σ =1.971 mho/m; ε_r = 39.73; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 123.25 V/m; Power Drift = -0.03
Fast SAR: SAR(1 g) = 14.53 W/kg; SAR(10 g) = 6.21 W/kg
Maximum value of SAR (interpolated) = 24.48 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =123.25 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 29.28 W/kg
SAR(1 g) = 14.9 W/kg; SAR(10 g) = 6.59 W/kg
Maximum value of SAR (measured) = 25.8 W/kg



0 dB = 25.8 W/kg = 14.12 dBW/kg

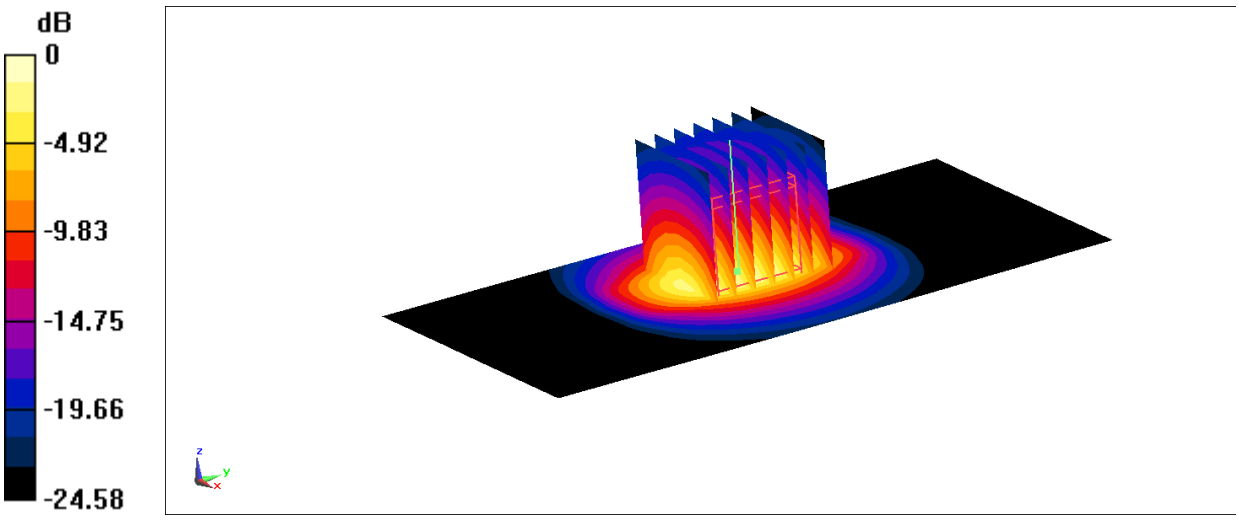
Fig.B.9 validation 2600 MHz 250mW

2600 MHz

Date: 5/14/2022
Electronics: DAE4 Sn549
Medium: Head 2600 MHz
Medium parameters used: f = 2600 MHz; σ =1.953 mho/m; ε_r = 38.41; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 121.78 V/m; Power Drift = -0.07
Fast SAR: SAR(1 g) = 14.04 W/kg; SAR(10 g) = 6.29 W/kg
Maximum value of SAR (interpolated) = 24.53 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =121.78 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 28.97 W/kg
SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.07 W/kg
Maximum value of SAR (measured) = 23.3 W/kg



0 dB = 23.3 W/kg = 13.67 dBW/kg

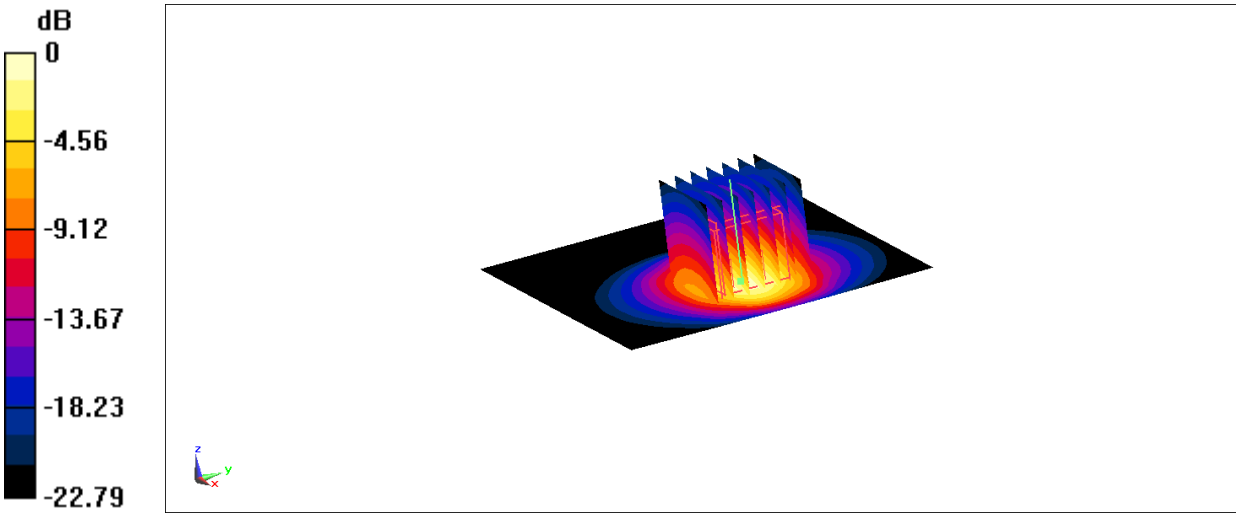
Fig.B.10 validation 2600 MHz 250mW

2450 MHz

Date: 5/15/2022
Electronics: DAE4 Sn549
Medium: Head 2450 MHz
Medium parameters used: f = 2450 MHz; σ =1.815 mho/m; ε_r = 39.32; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC Liquid Temperature: 22.3ºC
Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.77,7.77,7.77)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 117.26 V/m; Power Drift = -0.1
Fast SAR: SAR(1 g) = 12.89 W/kg; SAR(10 g) = 6.21 W/kg
Maximum value of SAR (interpolated) = 21.73 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =117.26 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 26.53 W/kg
SAR(1 g) = 13.06 W/kg; SAR(10 g) = 6.22 W/kg
Maximum value of SAR (measured) = 22.19 W/kg



0 dB = 24.1 W/kg = 13.82 dBW/kg

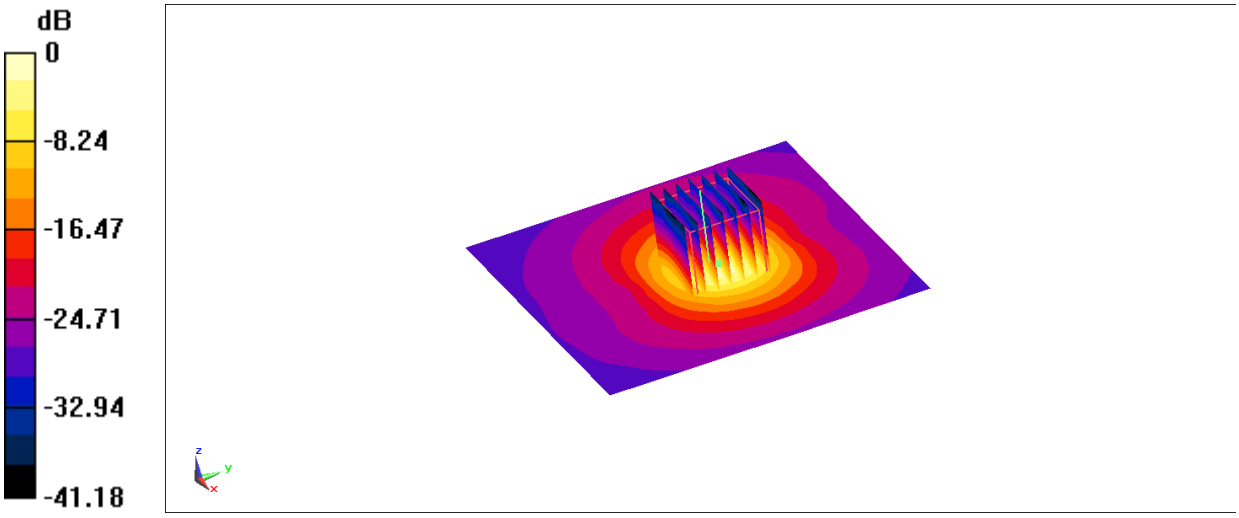
Fig.B.11 validation 2450 MHz

5250 MHz

Date: 5/16/2022
Electronics: DAE4 Sn549
Medium: Head 5250 MHz
Medium parameters used: f = 5250 MHz; σ =4.626 mho/m; ε_r = 35.89; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC Liquid Temperature: 22.3ºC
Communication System: CW Frequency: 5250 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(5.43,5.43,5.43)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 18.4 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value =79.46 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 28.57 W/kg
SAR(1 g) = 20.28 W/kg; SAR(10 g) = 5.67 W/kg
Maximum value of SAR (measured) = 18.11 W/kg



0 dB = 17.7 W/kg = 12.48 dBW/kg

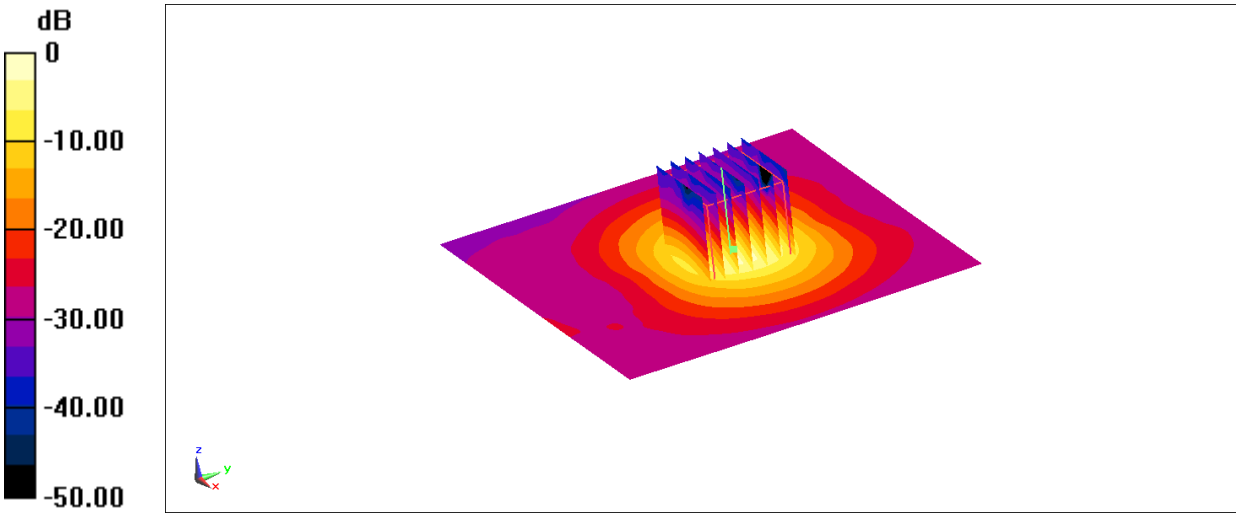
Fig.B.12 validation 5250 MHz 100mW

5600 MHz

Date: 5/17/2022
Electronics: DAE4 Sn549
Medium: Head 5600 MHz
Medium parameters used: f = 5600 MHz; σ =5.085 mho/m; ε_r = 34.97; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC Liquid Temperature: 22.3ºC
Communication System: CW Frequency: 5600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(5.11,5.11,5.11)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 20.09 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value =78.21 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 31.35 W/kg
SAR(1 g) = 20.54 W/kg; SAR(10 g) = 5.88 W/kg
Maximum value of SAR (measured) = 20.37 W/kg



0 dB = 18.9 W/kg = 12.76 dBW/kg

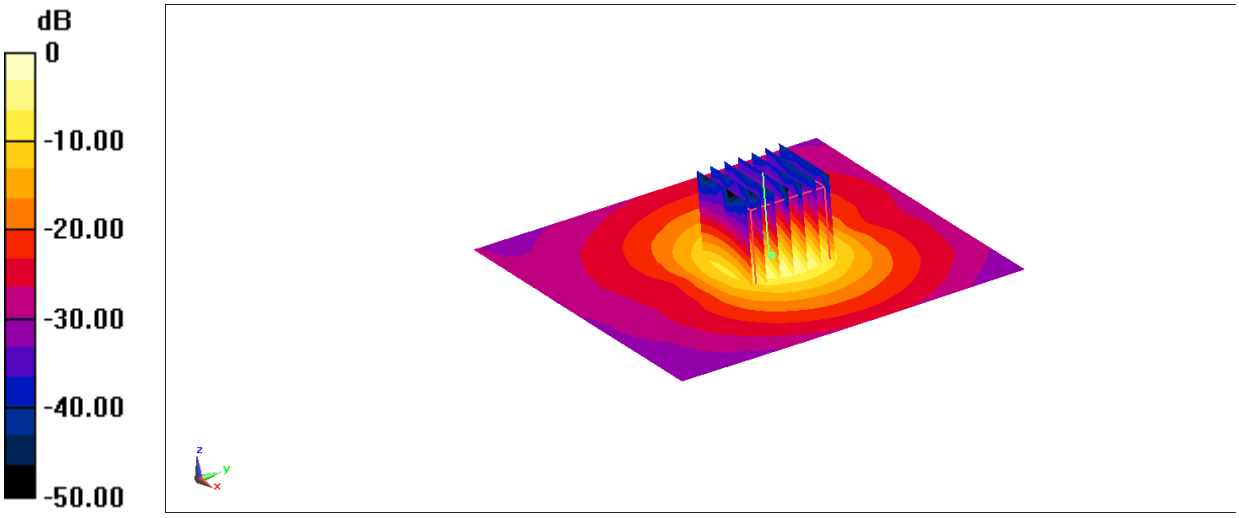
Fig.B.13 validation 5600 MHz 100mW

5750 MHz

Date: 5/18/2022
Electronics: DAE4 Sn549
Medium: Head 5750 MHz
Medium parameters used: f = 5750 MHz; σ =5.154 mho/m; ε_r = 34.77; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC Liquid Temperature: 22.3ºC
Communication System: CW Frequency: 5750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(4.85,4.85,4.85)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 20.15 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value =76.92 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 31.83 W/kg
SAR(1 g) = 20.15 W/kg; SAR(10 g) = 5.77 W/kg
Maximum value of SAR (measured) = 19.52 W/kg



0 dB = 18.4 W/kg = 12.65 dBW/kg

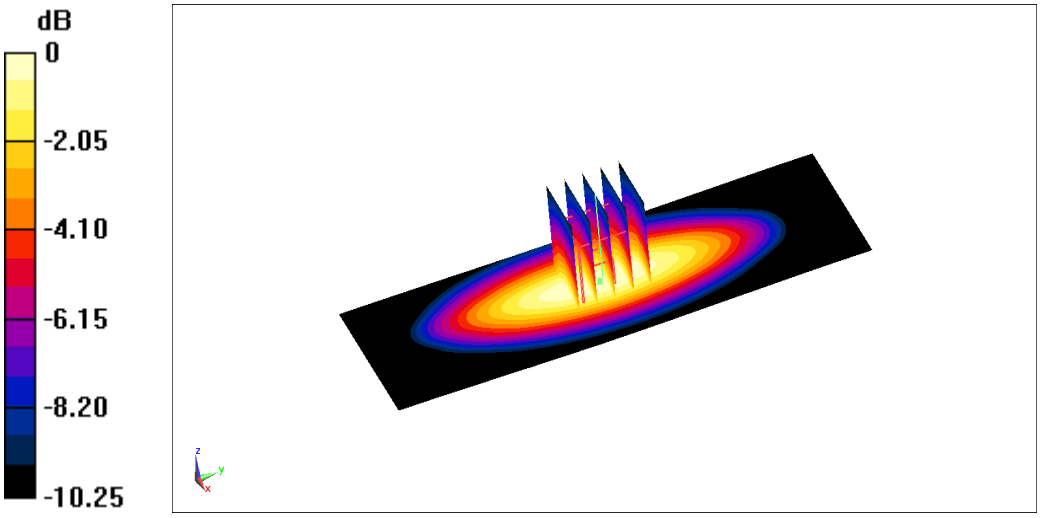
Fig.B.14 validation 5750 MHz 100mW

750 MHz

Date: 2022/5/18
Electronics: DAE4 Sn549
Medium: Head 750 MHz
Medium parameters used: f = 750 MHz; σ =0.875 S/m; εr = 45.729; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 58.99 V/m; Power Drift = -0.1
Fast SAR: SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.4 W/kg
Maximum value of SAR (interpolated) = 2.81 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =58.99 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 3.3 W/kg
SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.4 W/kg
Maximum value of SAR (measured) = 2.92 W/kg



0 dB = 2.92 W/kg = 4.65 dB W/kg

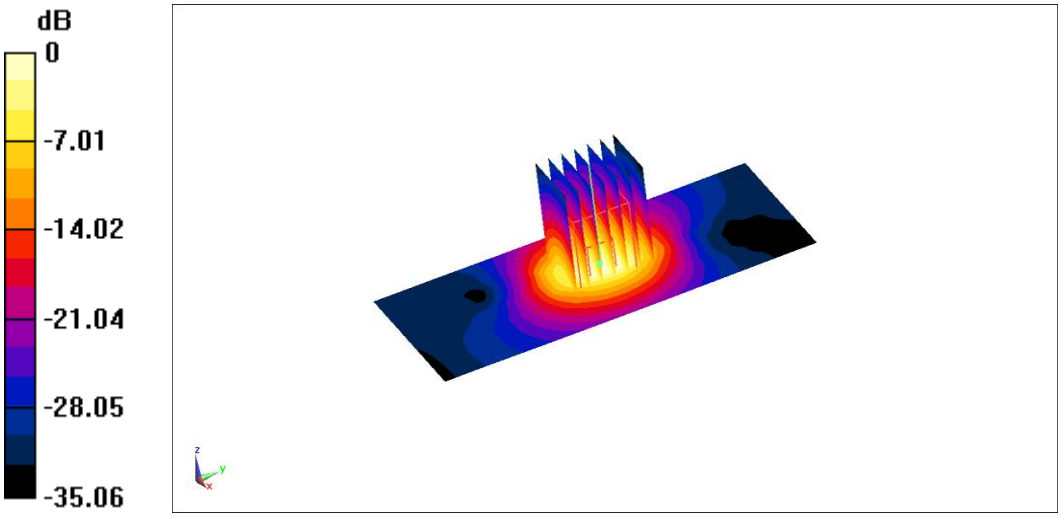
Fig.B.15 validation 750 MHz 250mW

3500 MHz

Date: 2022/5/22
Electronics: DAE4 Sn549
Medium: Body 3500 MHz
Medium parameters used: f = 3500 MHz; σ =2.963 S/m; εr = 38.84; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 3500 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.20,7.20,7.20)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 38 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value =106.36 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 50.01 W/kg
SAR(1 g) = 17.14 W/kg; SAR(10 g) = 6.19 W/kg
Maximum value of SAR (measured) = 34.41 W/kg



0 dB = 34.41 W/kg = 15.37 dB W/kg

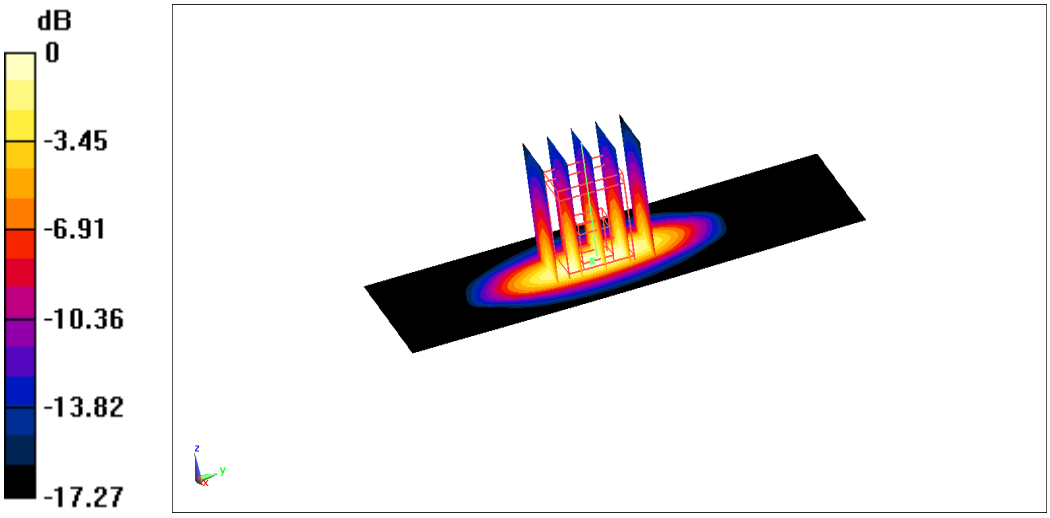
Fig.B.16 validation 3500 MHz 250mW

1750 MHz

Date: 2022/5/19
Electronics: DAE4 Sn549
Medium: Head 1750 MHz
Medium parameters used: f = 1750 MHz; σ =1.388 S/m; εr = 43.348; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 106.62 V/m; Power Drift = -0.05
Fast SAR: SAR(1 g) = 9.16 W/kg; SAR(10 g) = 4.85 W/kg
Maximum value of SAR (interpolated) = 14.15 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =106.62 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 17.02 W/kg
SAR(1 g) = 9.2 W/kg; SAR(10 g) = 4.73 W/kg
Maximum value of SAR (measured) = 13.88 W/kg



0 dB = 13.88 W/kg = 11.42 dB W/kg

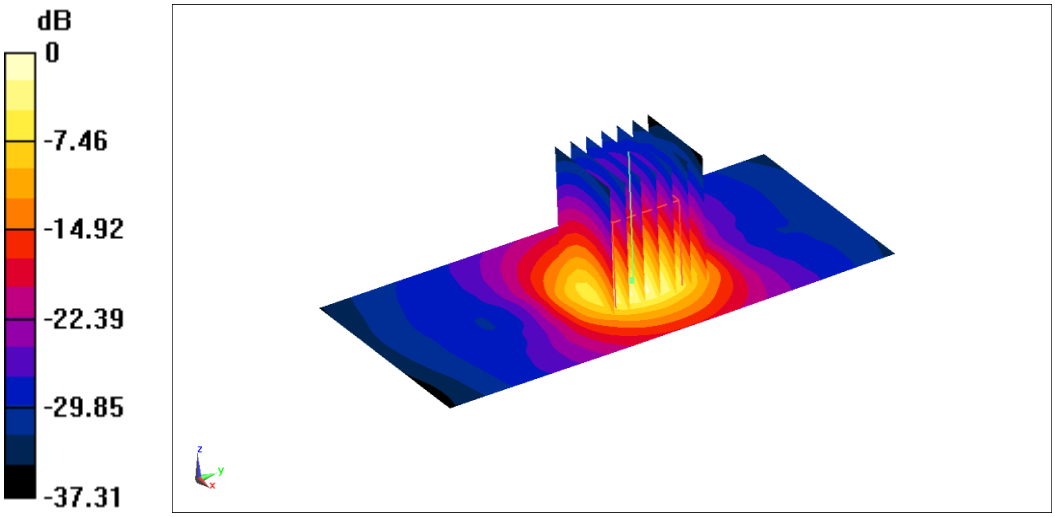
Fig.B.17 validation 1750 MHz 250mW

3900 MHz

Date: 2022/5/23
Electronics: DAE4 Sn549
Medium: Body 3900 MHz
Medium parameters used: f = 3900 MHz; σ =3.358 S/m; εr = 38.018; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 3900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(6.76,6.76,6.76)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 35.11 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value =65.22 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 46.39 W/kg
SAR(1 g) = 17.66 W/kg; SAR(10 g) = 6.03 W/kg
Maximum value of SAR (measured) = 32.44 W/kg



0 dB = 32.44 W/kg = 15.11 dB W/kg

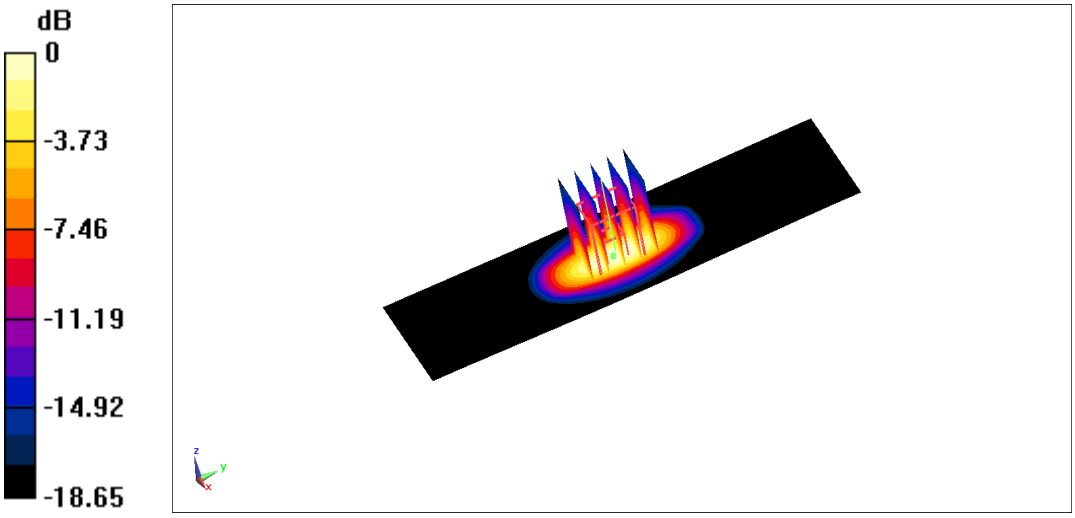
Fig.B.18 validation 3900 MHz 250mW

1900 MHz

Date: 2022/5/20
Electronics: DAE4 Sn549
Medium: Head 1900 MHz
Medium parameters used: f = 1900 MHz; σ =1.404 mho/m; ε_r = 39.36; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.33,8.33,8.33)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 107.96 V/m; Power Drift = -0.04
Fast SAR: SAR(1 g) = 10.09 W/kg; SAR(10 g) = 5.1 W/kg
Maximum value of SAR (interpolated) = 15.24 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =107.96 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 18.06 W/kg
SAR(1 g) = 9.77 W/kg; SAR(10 g) = 5.13 W/kg
Maximum value of SAR (measured) = 15.33 W/kg



0 dB = 15.33 W/kg = 11.86 dB W/kg

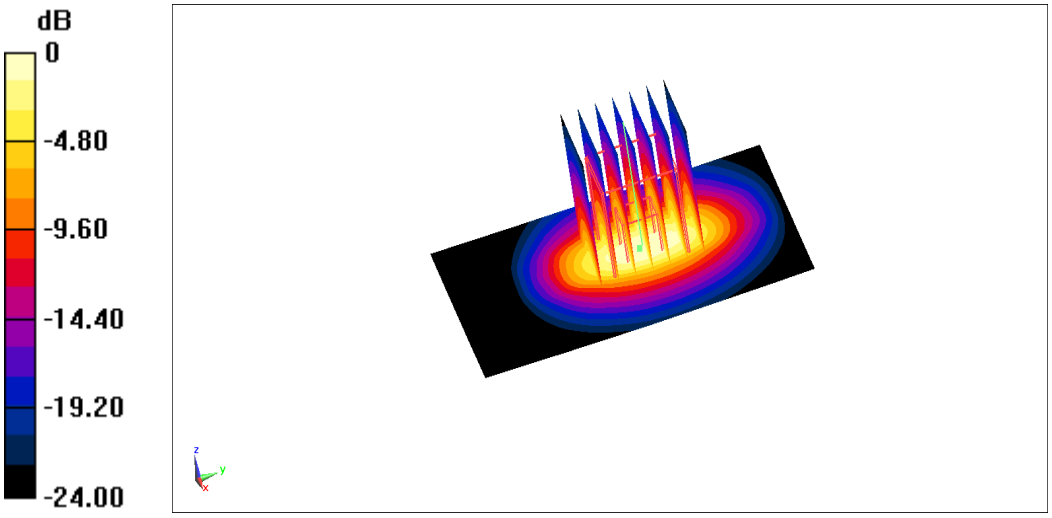
Fig.B.19 validation 1900 MHz 250mW

2600 MHz

Date: 2022/5/21
Electronics: DAE4 Sn549
Medium: Head 2600 MHz
Medium parameters used: f = 2600 MHz; σ =2.041 S/m; εr = 39.938; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 123.17 V/m; Power Drift = 0.06
Fast SAR: SAR(1 g) = 14.33 W/kg; SAR(10 g) = 6.31 W/kg
Maximum value of SAR (interpolated) = 24.71 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =123.17 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 29.05 W/kg
SAR(1 g) = 14.28 W/kg; SAR(10 g) = 6.43 W/kg
Maximum value of SAR (measured) = 23.93 W/kg



0 dB = 23.93 W/kg = 13.79 dB W/kg

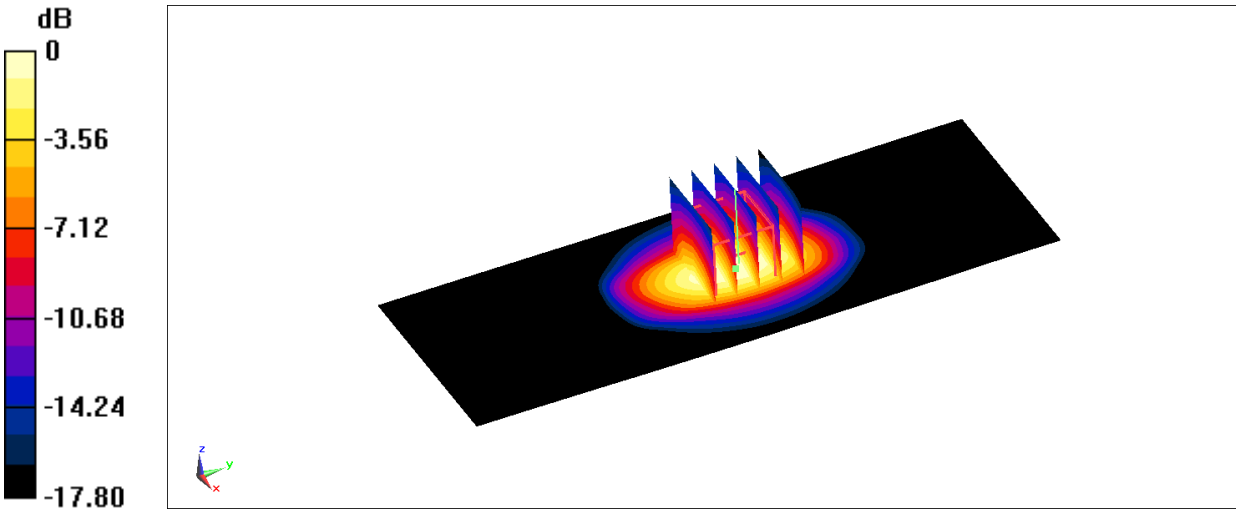
Fig.B.20 validation 2600 MHz 250mW

1750 MHz

Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: Head 1750 MHz
Medium parameters used: f = 1750 MHz; σ =1.381 mho/m; ε_r = 40.21; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC Liquid Temperature: 22.3ºC
Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 105.26 V/m; Power Drift = -0.1
Fast SAR: SAR(1 g) = 8.96 W/kg; SAR(10 g) = 4.84 W/kg
Maximum value of SAR (interpolated) = 14.06 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =105.26 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 17.01 W/kg
SAR(1 g) = 9.08 W/kg; SAR(10 g) = 4.85 W/kg
Maximum value of SAR (measured) = 14.35 W/kg



0 dB = 14.35 W/kg = 11.57 dB W/kg

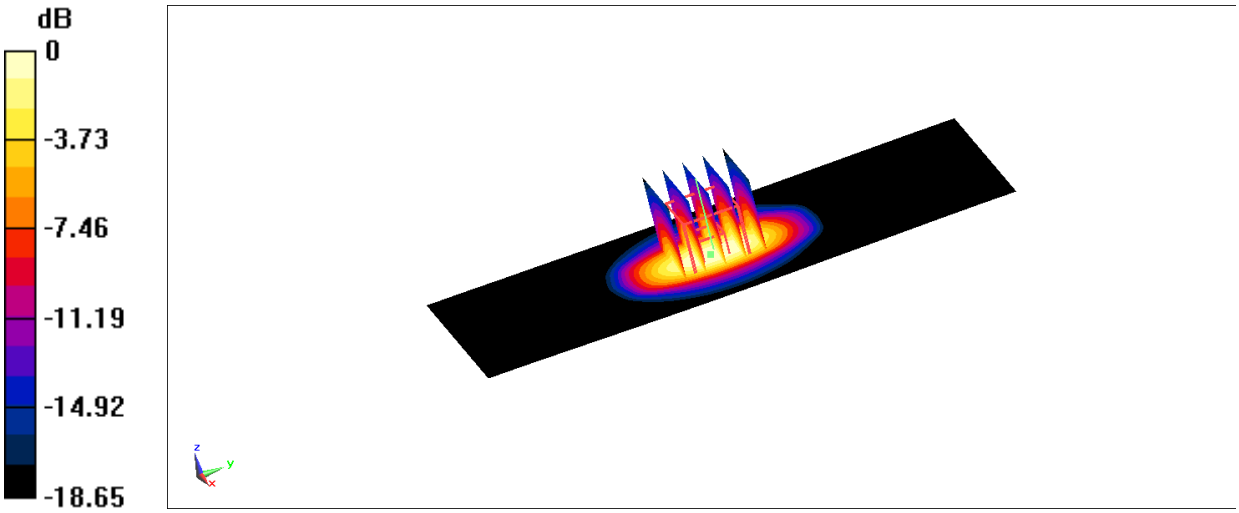
Fig.B.21 validation 1750 MHz 250mW

1900 MHz

Date: 5/20/2022
Electronics: DAE4 Sn549
Medium: Head 1900 MHz
Medium parameters used: f = 1900 MHz; σ =1.375 mho/m; ε_r = 39.95; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 109.43 V/m; Power Drift = -0.05
Fast SAR: SAR(1 g) = 9.94 W/kg; SAR(10 g) = 5.23 W/kg
Maximum value of SAR (interpolated) = 15.27 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =109.43 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 18.44 W/kg
SAR(1 g) = 9.98 W/kg; SAR(10 g) = 5.1 W/kg
Maximum value of SAR (measured) = 14.96 W/kg



0 dB = 14.96 W/kg = 11.75 dB W/kg

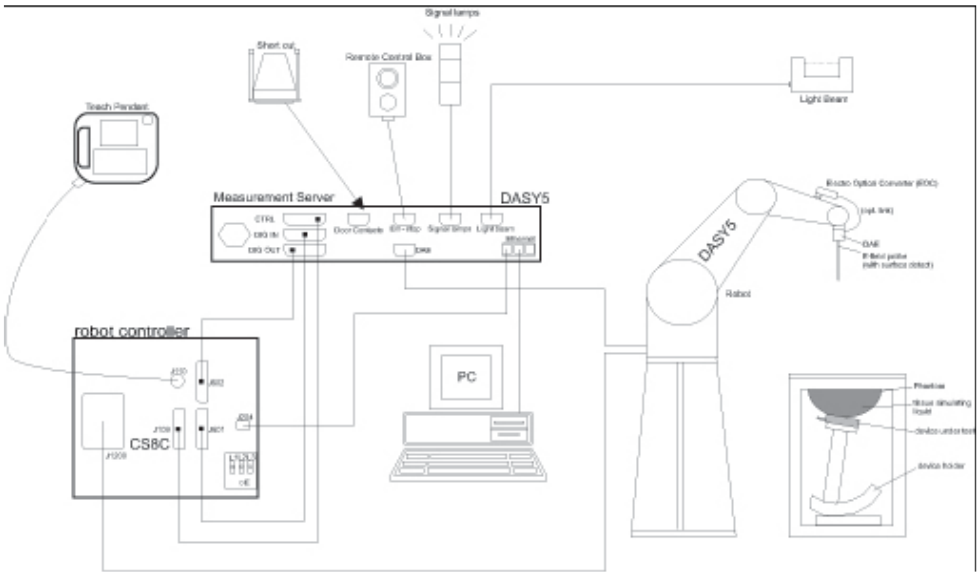
Fig.B.22 validation 1900 MHz 250mW

ANNEX C SAR Measurement Setup

C.1 Measurement Set-up

The Dasy5 or DASY6 system for performing compliance tests is illustrated above graphically. This

system consists of the following items:



Picture C.1SAR Lab Test Measurement Set-up

- A standard high precision 6-axis robot (StäubliTX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 or DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as
- warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

C.2 Dasy5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box on the

robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY5 or DASY6 software reads the reflection durning a software approach and looks for the maximum using 2nd ord curve fitting. The approach is stopped at reaching the maximum.

Picture C.2Near-field Probe

Probe Specifications:

Model: ES3DV3, EX3DV4
Frequency 10MHz — 6.0GHz(EX3DV4)
Range: 10MHz — 4GHz(ES3DV3)
Calibration: In head and body simulating tissue at Frequencies from 835 up to 5800MHz
Linearity: ± 0.2 dB(30 MHz to 6 GHz) for EX3DV4
± 0.2 dB(30 MHz to 4 GHz) for ES3DV3
DynamicRange: 10 mW/kg — 100W/kg
Probe Length: 330 mm
Probe Tip
Length: 20 mm
Body Diameter: 12 mm
Tip Diameter: 2.5 mm (3.9 mm for ES3DV3)
Tip-Center: 1 mm (2.0mm for ES3DV3)
Application:SAR Dosimetry Testing
Compliance tests ofmobile phones
Dosimetry in strong gradient fields

Picture C.3E-field Probe

C.3 E-field Probe Calibration

Each E-Probe/Probe Amplifier combination has unique calibration parameters. A TEM cell calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm^2) using an RF Signal generator, TEM cell, and RF Power Meter.

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and inn a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1 mW/cm^2.·

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The E-field in the medium correlates with the temperature rise in the

dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C\frac{\Delta T}{\Delta t}$$

Where:

∆t = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

∆T = Temperature increase due to RF exposure.

$$SAR = \frac{|E|^2 \cdot \sigma}{\rho}$$

Where:

σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m^3).

C.4 Other Test Equipment

C.4.1 Data Acquisition Electronics(DAE)

The data acquisition electronics consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

PictureC.4: DAE

C.4.2 Robot

The SPEAG DASY system uses the high precision robots (DASY5: RX160L) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability 0.02mm)

- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchron motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

Picture C.5 DASY 5

C.4.3 Measurement Server

The Measurement server is based on a PC/104 CPU broad with CPU (DASY5: 400 MHz, Intel Celeron), chipdisk (DASY5: 128MB), RAM DASY5: 128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O broad, which is directly connected to the PC/104 bus of the CPU broad.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.

Picture C.6 Server for DASY 5

C.4.4 Device Holder for Phantom

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5mm distance, a positioning uncertainty of ±0.5mm would produce a SAR uncertainty of ±20%. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be

measured are defined by the standards.

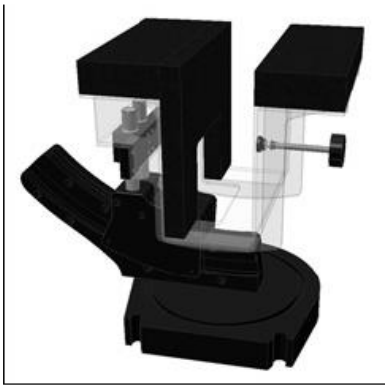
The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity ε=3 and loss tangent δ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

<Laptop Extension Kit>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin-SAM and ELI phantoms.

Picture C7-1: Device Holder



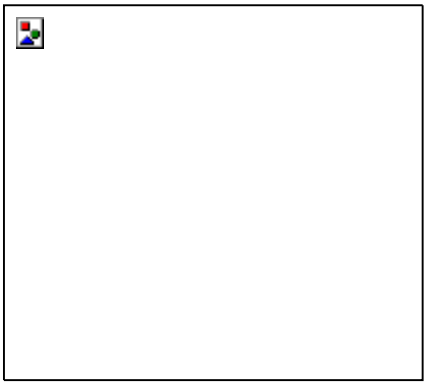
Picture C.7-2: Laptop Extension Kit

C.4.5 Phantom

The SAM Twin Phantom V4.0 is constructed of a fiberglass shell integrated in a table. The shape of the shell is based on data from an anatomical study designed to

Represent the 90th percentile of the population. The phantom enables the dissymmetric evaluation of SAR for both left and right handed handset usage, as well as body-worn usage using the flat phantom region. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. The shell phantom has a 2mm shell thickness (except the ear region where shell thickness increases to 6 mm).

Shell Thickness: 2±0. 2 mm
Filling Volume: Approx. 25 liters
Dimensions: 810 x l000 x 500 mm (H x L x W)
Available: Special

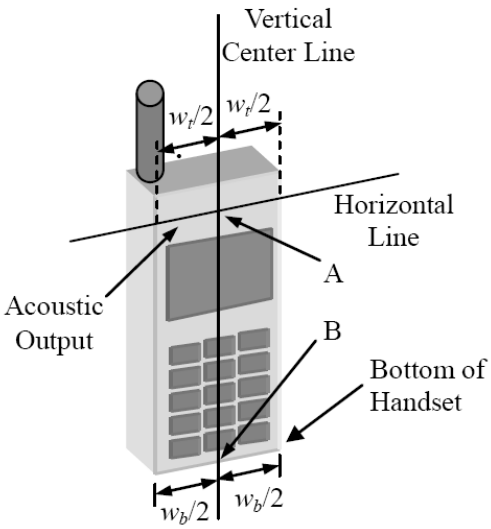


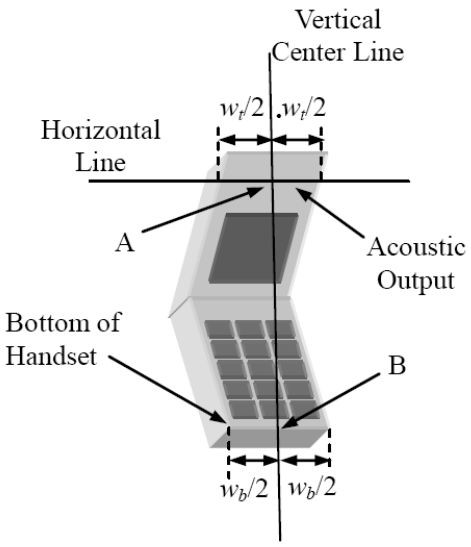
Picture C.8: SAM Twin Phantom

ANNEX D Position of the wireless device in relation to the phantom

D.1 General considerations

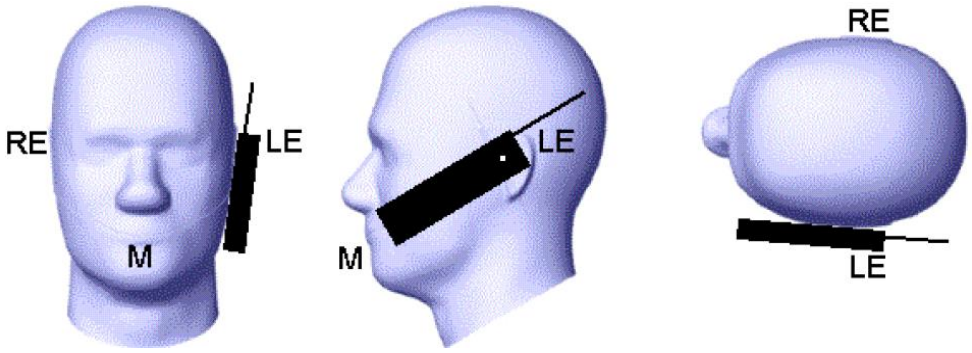
This standard specifies two handset test positions against the head phantom – the “cheek” position and the “tilt” position.



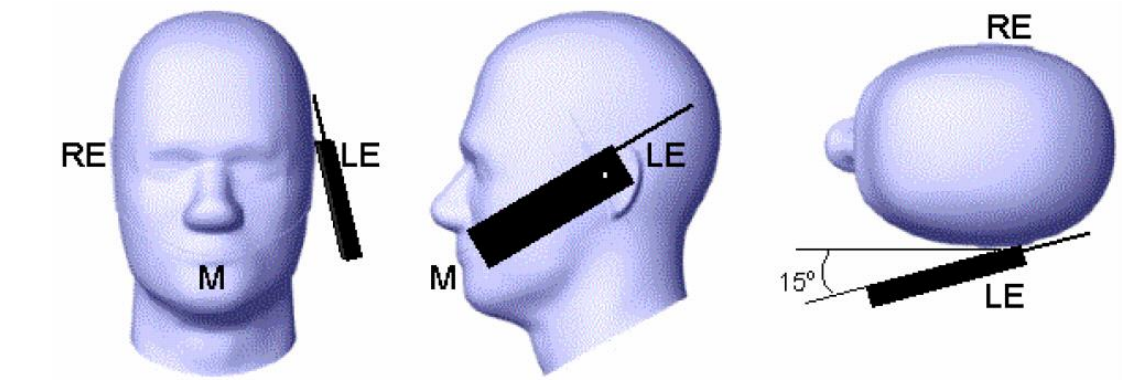


W_t	Width of the handset at the level of the acoustic
W_b	Width of the bottom of the handset
A	Midpoint of the width W_t of the handset at the level of the acoustic output
B	Midpoint of the width W_b of the bottom of the handset

Picture D.1-a Typical “fixed” case handset **Picture D.1-b Typical “clam-shell” case handset**



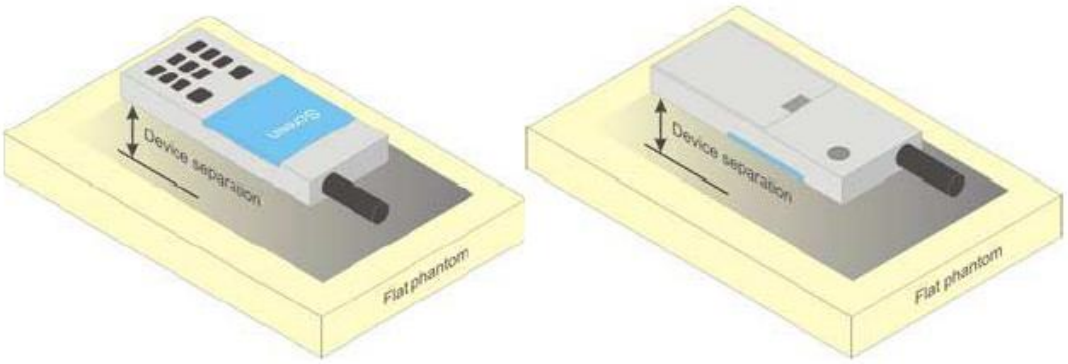
Picture D.2 Cheek position of the wireless device on the left side of SAM



Picture D.3 Tilt position of the wireless device on the left side of SAM

D.2 Body-worn device

A typical example of a body-worn device is a mobile phone, wireless enabled PDA or other battery operated wireless device with the ability to transmit while mounted on a person's body using a carry accessory approved by the wireless device manufacturer.

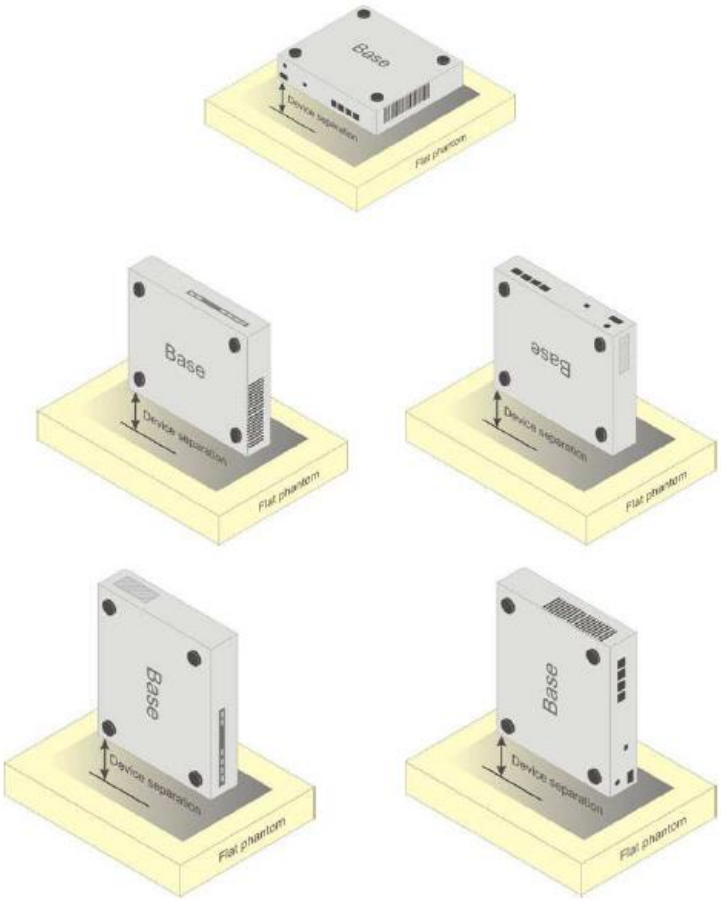


Picture D.4Test positions for body-worn devices

D.3 Desktop device

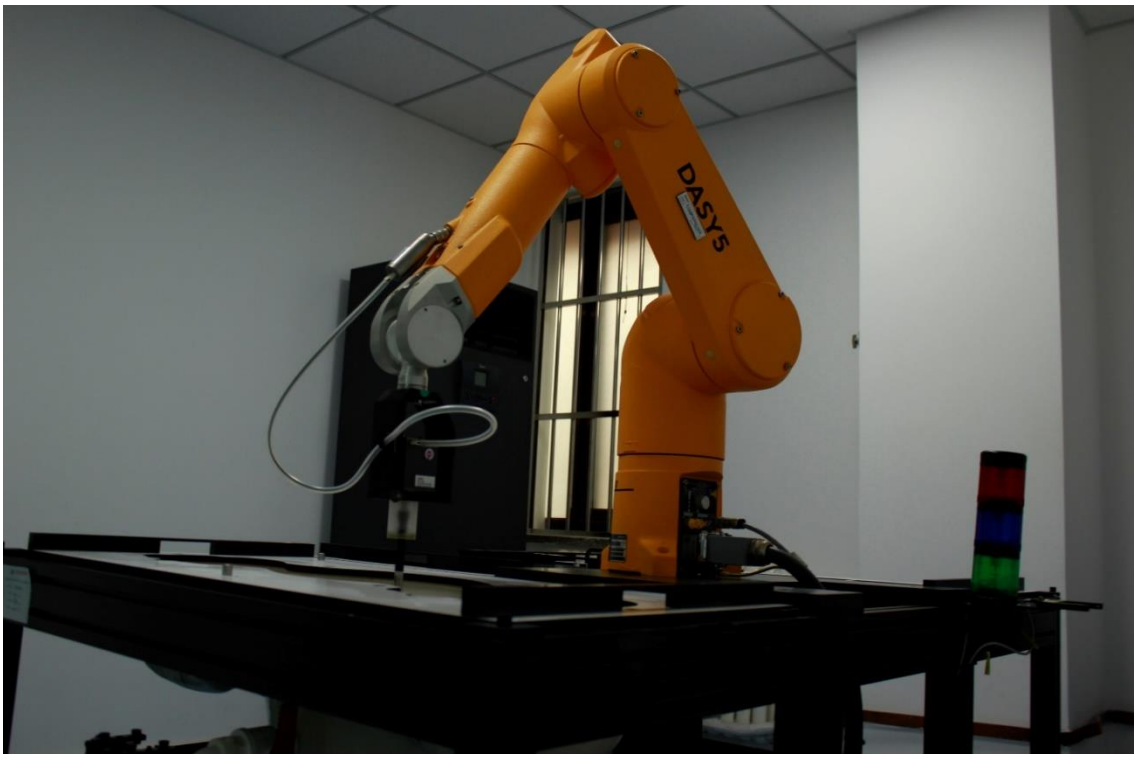
A typical example of a desktop device is a wireless enabled desktop computer placed on a table or desk when used.

The DUT shall be positioned at the distance and in the orientation to the phantom that corresponds to the intended use as specified by the manufacturer in the user instructions. For devices that employ an external antenna with variable positions, tests shall be performed for all antenna positions specified. Picture8.5 show positions for desktop device SAR tests. If the intended use is not specified, the device shall be tested directly against the flat phantom.



Picture D.5 Test positions for desktop devices

D.3 DUT Setup Photos



Picture D.6

ANNEX E Equivalent Media Recipes

The liquid used for the frequency range of 800-3000 MHz consisted of water, sugar, salt, preventol, glycol monobutyl and Cellulose. The liquid has been previously proven to be suited for worst-case. The Table E.1 shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528 and IEC 62209.

TableE.1: Composition of the Tissue Equivalent Matter

Frequency (MHz)	835Head	835Body	1900 Head	1900 Body	2450 Head	2450 Body	5800 Head	5800 Body
Ingredients (% by weight)								
Water	41.45	52.5	55.242	69.91	58.79	72.60	65.53	65.53
Sugar	56.0	45.0	\	\	\	\	\	\
Salt	1.45	1.4	0.306	0.13	0.06	0.18	\	\
Preventol	0.1	0.1	\	\	\	\	\	\
Cellulose	1.0	1.0	\	\	\	\	\	\
Glycol Monobutyl	\	\	44.452	29.96	41.15	27.22	\	\
Diethylenglycol monohexylether	\	\	\	\	\	\	17.24	17.24
Triton X-100	\	\	\	\	\	\	17.24	17.24
Dielectric Parameters Target Value	ε=41.5 σ=0.90	ε=55.2 σ=0.97	ε=40.0 σ=1.40	ε=53.3 σ=1.52	ε=39.2 σ=1.80	ε=52.7 σ=1.95	ε=35.3 σ=5.27	ε=48.2 σ=6.00

Note: There are a little adjustment respectively for 750, 1750, 2600, 5200, 5300 and 5600 based on the recipe of closest frequency in table E.1.