

13. SAR Test Data Summary

13.1 SAR Measurement Results(DSI = 2)

CDMA BC0 (\$22H) Head SAR - Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
836.52	384	CDMA BC0	RC3 / SO55	25.0	24.83	0.02	Left Cheek	1:1	111	0.132	1.040	0.137	-
836.52	384	CDMA BC0	RC3 / SO55	25.0	24.83	0.16	Left Tilt	1:1	111	0.097	1.040	0.101	-
836.52	384	CDMA BC0	RC3 / SO55	25.0	24.83	0.10	Right Cheek	1:1	111	0.217	1.040	0.226	1
836.52	384	CDMA BC0	RC3 / SO55	25.0	24.83	0.05	Right Tilt	1:1	111	0.103	1.040	0.107	-
836.52	384	CDMA BC0	EVDO Rev. A	25.0	24.06	0.02	Left Cheek	1:1	111	0.107	1.242	0.133	-
836.52	384	CDMA BC0	EVDO Rev. A	25.0	24.06	0.02	Left Tilt	1:1	111	0.082	1.242	0.102	-
836.52	384	CDMA BC0	EVDO Rev. A	25.0	24.06	-0.18	Right Cheek	1:1	111	0.167	1.242	0.207	-
836.52	384	CDMA BC0	EVDO Rev. A	25.0	24.06	-0.10	Right Tilt	1:1	111	0.086	1.242	0.107	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

PCS CDMA Head SAR- Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
1 880.0	600	PCS CDMA	RC3 / SO55	24.5	23.41	0.15	Left Cheek	1:1	115	0.184	1.285	0.236	-
1 880.0	600	PCS CDMA	RC3 / SO55	24.5	23.41	0.18	Left Tilt	1:1	115	0.054	1.285	0.069	-
1 880.0	600	PCS CDMA	RC3 / SO55	24.5	23.41	-0.19	Right Cheek	1:1	115	0.080	1.285	0.103	-
1 880.0	600	PCS CDMA	RC3 / SO55	24.5	23.41	-0.03	Right Tilt	1:1	115	0.022	1.285	0.028	-
1 908.75	1175	PCS CDMA	EVDO Rev. A	24.5	23.41	-0.18	Left Cheek	1:1	115	0.204	1.285	0.262	-
1 908.75	1175	PCS CDMA	EVDO Rev. A	24.5	23.41	0.03	Left Tilt	1:1	115	0.155	1.285	0.199	-
1 908.75	1175	PCS CDMA	EVDO Rev. A	24.5	23.41	0.09	Right Cheek	1:1	115	0.334	1.285	0.429	2
1 908.75	1175	PCS CDMA	EVDO Rev. A	24.5	23.41	0.01	Right Tilt	1:1	115	0.180	1.285	0.231	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

CDMA BC10 (\$90S) Head SAR - Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
820	560	CDMA BC10	RC3 / SO55	25.0	24.79	0.12	Left Cheek	1:1	111	0.156	1.050	0.164	-
820	560	CDMA BC10	RC3 / SO55	25.0	24.79	-0.10	Left Tilt	1:1	111	0.097	1.050	0.102	-
820	560	CDMA BC10	RC3 / SO55	25.0	24.79	-0.15	Right Cheek	1:1	111	0.202	1.050	0.212	3
820	560	CDMA BC10	RC3 / SO55	25.0	24.79	-0.10	Right Tilt	1:1	111	0.104	1.050	0.109	-
820	560	CDMA BC10	EVDO Rev. A	25.0	24.01	-0.03	Left Cheek	1:1	111	0.110	1.256	0.138	-
820	560	CDMA BC10	EVDO Rev. A	25.0	24.01	-0.10	Left Tilt	1:1	111	0.074	1.256	0.093	-
820	560	CDMA BC10	EVDO Rev. A	25.0	24.01	-0.17	Right Cheek	1:1	111	0.158	1.256	0.198	-
820	560	CDMA BC10	EVDO Rev. A	25.0	24.01	0.01	Right Tilt	1:1	111	0.082	1.256	0.103	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

GSM 850 Head SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
836.6	190	GSM	33.5	32.56	0.13	Left Cheek	1:8.3	1	0.122	1.242	0.152	-
836.6	190	GSM	33.5	32.56	0.15	Left Tilt	1:8.3	1	0.082	1.242	0.102	-
836.6	190	GSM	33.5	32.56	-0.10	Right Cheek	1:8.3	1	0.191	1.242	0.237	4
836.6	190	GSM	33.5	32.56	-0.17	Right Tilt	1:8.3	1	0.104	1.242	0.129	-
836.6	190	GPRS 2Tx	32.0	31.96	0.18	Left Cheek	1:4.15	1	0.146	1.009	0.147	-
836.6	190	GPRS 2Tx	32.0	31.96	0.12	Left Tilt	1:4.15	1	0.147	1.009	0.148	-
836.6	190	GPRS 2Tx	32.0	31.96	-0.19	Right Cheek	1:4.15	1	0.226	1.009	0.228	-
836.6	190	GPRS 2Tx	32.0	31.96	-0.01	Right Tilt	1:4.15	1	0.119	1.009	0.120	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg Averaged over 1 gram						

GSM 1900 Head SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
1 880	661	GSM	30.5	29.71	-0.18	Left Cheek	1:8.3	115	0.100	1.199	0.120	-
1 880	661	GSM	30.5	29.71	0.12	Left Tilt	1:8.3	115	0.029	1.199	0.035	-
1 880	661	GSM	30.5	29.71	0.11	Right Cheek	1:8.3	115	0.051	1.199	0.061	-
1 880	661	GSM	30.5	29.71	-0.12	Right Tilt	1:8.3	115	0.037	1.199	0.044	-
1 880	661	GPRS 3Tx	28.0	27.56	-0.16	Left Cheek	1:2.77	115	0.149	1.107	0.165	5
1 880	661	GPRS 3Tx	28.0	27.56	0.14	Left Tilt	1:2.77	115	0.040	1.107	0.044	-
1 880	661	GPRS 3Tx	28.0	27.56	0.12	Right Cheek	1:2.77	115	0.087	1.107	0.096	-
1 880	661	GPRS 3Tx	28.0	27.56	0.11	Right Tilt	1:2.77	115	0.064	1.107	0.071	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg Averaged over 1 gram						

UMTS 850 Head SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
836.6	4183	RMC	25.0	24.16	0.12	Left Cheek	1:1	1	0.139	1.213	0.169	-
836.6	4183	RMC	25.0	24.16	0.03	Left Tilt	1:1	1	0.075	1.213	0.091	-
836.6	4183	RMC	25.0	24.16	0.13	Right Cheek	1:1	1	0.194	1.213	0.235	6
836.6	4183	RMC	25.0	24.16	-0.04	Right Tilt	1:1	1	0.090	1.213	0.109	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram						

UMTS 1700 Head SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
1 732.4	1412	RMC	24.5	23.77	-0.05	Left Cheek	1:1	51	0.129	1.183	0.153	7
1 732.4	1412	RMC	24.5	23.77	0.12	Left Tilt	1:1	51	0.079	1.183	0.093	-
1 732.4	1412	RMC	24.5	23.77	-0.01	Right Cheek	1:1	51	0.109	1.183	0.129	-
1 732.4	1412	RMC	24.5	23.77	0.14	Right Tilt	1:1	51	0.075	1.183	0.089	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram						

UMTS 1900 Head SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
1 880	9400	RMC	24.5	24.31	-0.19	Left Cheek	1:1	113	0.153	1.045	0.160	8
1 880	9400	RMC	24.5	24.31	-0.01	Left Tilt	1:1	113	0.053	1.045	0.055	-
1 880	9400	RMC	24.5	24.31	-0.16	Right Cheek	1:1	113	0.105	1.045	0.110	-
1 880	9400	RMC	24.5	24.31	-0.02	Right Tilt	1:1	113	0.085	1.045	0.089	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram						

LTE Band 7 Head SAR- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
2 560	21350	QPSK	20	24.5	23.82	-0.10	Left Cheek	0	1	99	1:1		0.112	1.169	0.131	9
2 560	21350	QPSK	20	23.5	22.77	0.18	Left Cheek	1	50	25	1:1		0.093	1.183	0.110	-
2 560	21350	QPSK	20	24.5	23.82	-0.01	Left Tilt	0	1	99	1:1		0.073	1.169	0.085	-
2 560	21350	QPSK	20	23.5	22.77	0.17	Left Tilt	1	50	25	1:1		0.059	1.183	0.070	-
2 560	21350	QPSK	20	24.5	23.82	0.14	Right Cheek	0	1	99	1:1		0.082	1.169	0.096	-
2 560	21350	QPSK	20	23.5	22.77	0.08	Right Cheek	1	50	25	1:1		0.069	1.183	0.082	-
2 560	21350	QPSK	20	24.5	23.82	0.17	Right Tilt	0	1	99	1:1		0.084	1.169	0.098	-
2 560	21350	QPSK	20	23.5	22.77	0.10	Right Tilt	1	50	25	1:1		0.071	1.183	0.084	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

LTE Band 12 Head SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
707.5	23095	QPSK	10	25.5	23.99	0.13	Left Cheek	0	1	0	1:1	4	0.112	1.416	0.159	-
707.5	23095	QPSK	10	24.5	22.96	0.14	Left Cheek	1	25	12	1:1	4	0.101	1.426	0.144	-
707.5	23095	QPSK	10	25.5	23.99	0.15	Left Tilt	0	1	0	1:1	4	0.036	1.416	0.051	-
707.5	23095	QPSK	10	24.5	22.96	-0.10	Left Tilt	1	25	12	1:1	4	0.037	1.426	0.053	-
707.5	23095	QPSK	10	25.5	23.99	0.19	Right Cheek	0	1	0	1:1	4	0.140	1.416	0.198	10
707.5	23095	QPSK	10	24.5	22.96	0.14	Right Cheek	1	25	12	1:1	4	0.119	1.426	0.170	-
707.5	23095	QPSK	10	25.5	23.99	0.14	Right Tilt	0	1	0	1:1	4	0.040	1.416	0.057	-
707.5	23095	QPSK	10	24.5	22.96	0.15	Right Tilt	1	25	12	1:1	4	0.056	1.426	0.080	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

LTE Band 13 Head SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
782	23230	QPSK	10	25.5	23.89	-0.05	Left Cheek	0	1	24	1:1	1	0.107	1.449	0.155	-
782	23230	QPSK	10	24.5	22.98	0.15	Left Cheek	1	25	0	1:1	1	0.085	1.419	0.121	-
782	23230	QPSK	10	25.5	23.89	-0.11	Left Tilt	0	1	24	1:1	1	0.059	1.449	0.085	-
782	23230	QPSK	10	24.5	22.98	-0.02	Left Tilt	1	25	0	1:1	1	0.054	1.419	0.077	-
782	23230	QPSK	10	25.5	23.89	-0.15	Right Cheek	0	1	24	1:1	1	0.166	1.449	0.241	11
782	23230	QPSK	10	24.5	22.98	0.17	Right Cheek	1	25	0	1:1	1	0.132	1.419	0.187	-
782	23230	QPSK	10	25.5	23.89	-0.01	Right Tilt	0	1	24	1:1	1	0.073	1.449	0.106	-
782	23230	QPSK	10	24.5	22.98	0.16	Right Tilt	1	25	0	1:1	1	0.057	1.419	0.081	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

LTE Band 14 Head SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.												(W/kg)			
793	23330	QPSK	10	25.5	24.70	0.17	Left Cheek	0	1	0	1:1	4	0.143	1.202	0.172	-
793	23330	QPSK	10	24.5	23.42	0.19	Left Cheek	1	25	12	1:1	4	0.112	1.282	0.144	-
793	23330	QPSK	10	25.5	24.70	-0.02	Left Tilt	0	1	0	1:1	4	0.107	1.202	0.129	-
793	23330	QPSK	10	24.5	23.42	-0.08	Left Tilt	1	25	12	1:1	4	0.083	1.282	0.106	-
793	23330	QPSK	10	25.5	24.70	0.08	Right Cheek	0	1	0	1:1	4	0.191	1.202	0.230	12
793	23330	QPSK	10	24.5	23.42	-0.14	Right Cheek	1	25	12	1:1	4	0.140	1.282	0.179	-
793	23330	QPSK	10	25.5	24.70	-0.04	Right Tilt	0	1	0	1:1	4	0.087	1.202	0.105	-
793	23330	QPSK	10	24.5	23.42	-0.05	Right Tilt	1	25	12	1:1	4	0.071	1.282	0.091	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

LTE Band 25 Head SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.												(W/kg)			
1 882.5	26365	QPSK	20	25.0	24.61	0.10	Left Cheek	0	1	0	1:1	115	0.178	1.094	0.195	13
1 882.5	26365	QPSK	20	24.0	23.71	0.18	Left Cheek	1	50	25	1:1	115	0.131	1.069	0.140	-
1 882.5	26365	QPSK	20	25.0	24.61	0.14	Left Tilt	0	1	0	1:1	115	0.064	1.094	0.070	-
1 882.5	26365	QPSK	20	24.0	23.71	0.16	Left Tilt	1	50	25	1:1	115	0.049	1.069	0.052	-
1 882.5	26365	QPSK	20	25.0	24.61	0.17	Right Cheek	0	1	0	1:1	115	0.105	1.094	0.115	-
1 882.5	26365	QPSK	20	24.0	23.71	0.11	Right Cheek	1	50	25	1:1	115	0.085	1.069	0.091	-
1 882.5	26365	QPSK	20	25.0	24.61	0.02	Right Tilt	0	1	0	1:1	115	0.070	1.094	0.077	-
1 882.5	26365	QPSK	20	24.0	23.71	0.04	Right Tilt	1	50	25	1:1	115	0.052	1.069	0.056	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

LTE Band 26 Head SAR- Ant. A

Component CA	Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	Mhz	Ch.															
	831.6	26865	QPSK	15	25.5	24.02	-0.02	Left Cheek	0	1	0	1:1	4	0.138	1.406	0.194	-
	831.6	26865	QPSK	15	24.5	23.16	-0.07	Left Cheek	1	36	39	1:1	4	0.116	1.361	0.158	-
	831.6	26865	QPSK	15	25.5	24.02	-0.01	Left Tilt	0	1	0	1:1	4	0.109	1.406	0.153	-
	831.6	26865	QPSK	15	24.5	23.16	-0.01	Left Tilt	1	36	39	1:1	4	0.088	1.361	0.120	-
	831.6	26865	QPSK	15	25.5	24.02	0.11	Right Cheek	0	1	0	1:1	4	0.182	1.406	0.256	-
	831.6	26865	QPSK	15	24.5	23.16	0.18	Right Cheek	1	36	39	1:1	4	0.157	1.361	0.214	-
	831.6	26865	QPSK	15	25.5	24.02	0.02	Right Tilt	0	1	0	1:1	4	0.084	1.406	0.118	-
	831.6	26865	QPSK	15	24.5	23.16	0.03	Right Tilt	1	36	39	1:1	4	0.075	1.361	0.102	-

LTE Band 5 Up-link Carrier Aggregation (5B)

ANSI/ IEEE C95.1 - 2005- Safety Limit																	
Spatial Peak																	
Uncontrolled Exposure/ General Population																	
PCC	836.5	20525	QPSK	10	25.5	24.31	-0.19	Left Cheek	0	1	49	1:1	4	0.233	1.315	0.306	14
SCC	843.7	20597		5						1	0						
Head																	
1.6 W/kg																	
Averaged over 1 gram																	

LTE Band 30 Head SAR- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.												(W/kg)			
2 310	27710	QPSK	10	23.0	22.31	0.19	Left Cheek	0	1	24	1:1		0.097	1.172	0.114	15
2 310	27710	QPSK	10	22.0	21.39	0.11	Left Cheek	1	25	0	1:1		0.075	1.151	0.086	-
2 310	27710	QPSK	10	23.0	22.31	0.07	Left Tilt	0	1	24	1:1		0.043	1.172	0.050	-
2 310	27710	QPSK	10	22.0	21.39	-0.09	Left Tilt	1	25	0	1:1		0.032	1.151	0.037	-
2 310	27710	QPSK	10	23.0	22.31	0.18	Right Cheek	0	1	24	1:1		0.094	1.172	0.110	-
2 310	27710	QPSK	10	22.0	21.39	0.14	Right Cheek	1	25	0	1:1		0.073	1.151	0.084	-
2 310	27710	QPSK	10	23.0	22.31	0.19	Right Tilt	0	1	24	1:1		0.054	1.172	0.063	-
2 310	27710	QPSK	10	22.0	21.39	0.13	Right Tilt	1	25	0	1:1		0.044	1.151	0.051	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

LTE Band 40 Head SAR _ Lower frequency range- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.												(W/kg)			
2 310	38750	QPSK	10	14.0	13.43	0.01	Left Cheek	0	1	24	1:1.58		0.00464	1.140	0.005	16
2 310	38750	QPSK	10	14.0	13.59	0.01	Left Cheek	0	25	12	1:1.58		0.00169	1.099	0.002	-
2 310	38750	QPSK	10	14.0	13.43	0.17	Left Tilt	0	1	24	1:1.58		0.000325	1.140	0.0004	-
2 310	38750	QPSK	10	14.0	13.59	0.14	Left Tilt	0	25	12	1:1.58		0.000285	1.099	0.0003	-
2 310	38750	QPSK	10	14.0	13.43	0.01	Right Cheek	0	1	24	1:1.58		0.0033	1.140	0.004	-
2 310	38750	QPSK	10	14.0	13.59	0.01	Right Cheek	0	25	12	1:1.58		0.000691	1.099	0.001	-
2 310	38750	QPSK	10	14.0	13.43	0.10	Right Tilt	0	1	24	1:1.58		0.0000719	1.140	0.00008	-
2 310	38750	QPSK	10	14.0	13.59	0.15	Right Tilt	0	25	12	1:1.58		0.0000203	1.099	0.00002	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

LTE Band 40 Head SAR _ Upper frequency range- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.												(W/kg)			
2 355	39200	QPSK	10	14.0	13.43	0.01	Left Cheek	0	1	24	1:1.58		0.0048	1.140	0.005	17
2 355	39200	QPSK	10	14.0	13.59	0.01	Left Cheek	0	25	12	1:1.58		0.00378	1.099	0.004	-
2 355	39200	QPSK	10	14.0	13.43	0.10	Left Tilt	0	1	24	1:1.58		0.00183	1.140	0.002	-
2 355	39200	QPSK	10	14.0	13.59	0.14	Left Tilt	0	25	12	1:1.58		0.000245	1.099	0.0003	-
2 355	39200	QPSK	10	14.0	13.43	0.01	Right Cheek	0	1	24	1:1.58		0.00351	1.140	0.004	-
2 355	39200	QPSK	10	14.0	13.59	0.01	Right Cheek	0	25	12	1:1.58		0.00315	1.099	0.003	-
2 355	39200	QPSK	10	14.0	13.43	0.01	Right Tilt	0	1	24	1:1.58		0.000596	1.140	0.001	-
2 355	39200	QPSK	10	14.0	13.59	-0.19	Right Tilt	0	25	12	1:1.58		0.000476	1.099	0.001	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

LTE TDD Band 41 Head SAR- Ant. B

Component CA	Frequency		Mode	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)	Size	offset			(W/kg)		(W/kg)	
Power class 3																	
	2 593	40620	QPSK	20	25.5	24.79	0.07	Left Cheek	0	1	99	1:1.58		0.098	1.178	0.115	
	2 593	40620	QPSK	20	24.5	24.18	0.11	Left Cheek	1	50	25	1:1.58		0.085	1.076	0.091	-
	2 593	40620	QPSK	20	25.5	24.79	0.03	Left Tilt	0	1	99	1:1.58		0.060	1.178	0.071	-
	2 593	40620	QPSK	20	24.5	24.18	0.13	Left Tilt	1	50	25	1:1.58		0.050	1.076	0.054	-
	2 593	40620	QPSK	20	25.5	24.79	0.10	Right Cheek	0	1	99	1:1.58		0.074	1.178	0.087	-
	2 593	40620	QPSK	20	24.5	24.18	0.18	Right Cheek	1	50	25	1:1.58		0.059	1.076	0.063	-
	2 593	40620	QPSK	20	25.5	24.79	0.17	Right Tilt	0	1	99	1:1.58		0.096	1.178	0.113	-
	2 593	40620	QPSK	20	24.5	24.18	-0.10	Right Tilt	1	50	25	1:1.58		0.081	1.076	0.087	-
Power class 2 (HPUE)																	
-	2 593	40620	QPSK	20	27.0	26.55	0.14	Left Cheek	0	1	99	1:2.31		0.111	1.109	0.123	18
Up-link Carrier Aggregation Power class 3 (41C)																	
PCC	2 593	40620	QPSK	20	25.5	24.75	0.10	Left Cheek	0	1	99	1:1.58		0.050	1.189	0.059	-
SCC	2612.8	40818		20						1	0						
Up-link Carrier Aggregation Power class 2(HPUE) (41C)																	
PCC	2 593	40620	QPSK	20	27.0	26.53	0.12	Left Cheek	0	1	99	1:2.31		0.102	1.114	0.114	-
SCC	2612.8	40818		20						1	0						
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

LTE TDD Band 48 Head SAR- Ant. H (RCV-ON)

Component CA	Frequency		Mode	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty	Ant. State	Meas. SAR	Scaling	Scaled SAR	Plot No.
	Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	Size	offset	Cycle		(W/kg)	Factor	(W/kg)	
	3603.3	55773	QPSK	20	17.5	16.70	0.16	Left Cheek	0	1	99	1:1.58		0.100	1.202	0.120	-
	3560.0	55340	QPSK	20	17.5	16.71	-0.11	Left Cheek	0	50	25	1:1.58		0.117	1.199	0.140	-
	3603.3	55773	QPSK	20	17.5	16.70	-0.06	Left Tilt	0	1	99	1:1.58		0.105	1.202	0.126	-
	3560.0	55340	QPSK	20	17.5	16.71	-0.15	Left Tilt	0	50	25	1:1.58		0.112	1.199	0.134	-
	3603.3	55773	QPSK	20	17.5	16.70	-0.17	Right Cheek	0	1	99	1:1.58		0.496	1.202	0.596	-
	3560.0	55340	QPSK	20	17.5	16.71	0.16	Right Cheek	0	50	25	1:1.58		0.473	1.199	0.567	-
	3603.3	55773	QPSK	20	17.5	16.70	-0.17	Right Tilt	0	1	99	1:1.58		0.459	1.202	0.552	-
	3560.0	55340	QPSK	20	17.5	16.71	0.16	Right Tilt	0	50	25	1:1.58		0.391	1.199	0.469	-
Up-link Carrier Aggregation (48C)																	
PCC	3603.3	55773	QPSK	20	17.5	16.43	0.17	Right Cheek	0	1	99	1:1.58		0.521	1.279	0.666	19
SCC	3623.1	55971		20						1	0						
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

* Power reduction condition during Receiver_ON

LTE TDD Band 66 Head SAR- Ant. A

Component CA	Frequency		Mode	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)	Size	offset			(W/kg)		(W/kg)	
	1 770	132572	QPSK	20	24.5	24.01	0.19	Left Cheek	0	1	0	1:1	51	0.193	1.119	0.216	20
	1 745	132322	QPSK	20	23.5	23.05	0.18	Left Cheek	1	50	49	1:1	51	0.113	1.109	0.125	-
	1 770	132572	QPSK	20	24.5	24.01	0.12	Left Tilt	0	1	0	1:1	51	0.061	1.119	0.068	-
	1 745	132322	QPSK	20	23.5	23.05	0.10	Left Tilt	1	50	49	1:1	51	0.040	1.109	0.044	-
	1 770	132572	QPSK	20	24.5	24.01	0.11	Right Cheek	0	1	0	1:1	51	0.136	1.119	0.152	-
	1 745	132322	QPSK	20	23.5	23.05	0.11	Right Cheek	1	50	49	1:1	51	0.076	1.109	0.084	-
	1 770	132572	QPSK	20	24.5	24.01	0.18	Right Tilt	0	1	0	1:1	51	0.112	1.119	0.125	-
	1 745	132322	QPSK	20	23.5	23.05	0.14	Right Tilt	1	50	49	1:1	51	0.065	1.109	0.072	-

Up-link Carrier Aggregation (66B)

PCC	1 745	132322	QPSK	10	24.5	23.91	-0.15	Left Cheek	0	1	0	1:1	51	0.136	1.146	0.156	-
SCC	1 735.1	132223		10						1	49						

Up-link Carrier Aggregation (66C)

PCC	1 770	132572	QPSK	20	24.5	23.91	0.14	Left Cheek	0	1	0	1:1	51	0.161	1.146	0.185	-
SCC	1750.2	132374		20						1	99						

ANSI/ IEEE C95.1 - 2005– Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Head
1.6 W/kg
Averaged over 1 gram

LTE Band 71 Head SAR- Ant. A

Frequency		Mode	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)	Size	offset			(W/kg)		(W/kg)	
680.5	133297	QPSK	20	25.5	24.35	-0.14	Left Cheek	0	1	0	1:1	4	0.085	1.303	0.111	-
680.5	133297	QPSK	20	24.5	23.43	-0.18	Left Cheek	1	50	0	1:1	4	0.074	1.279	0.095	-
680.5	133297	QPSK	20	25.5	24.35	-0.17	Left Tilt	0	1	0	1:1	4	0.038	1.303	0.050	-
680.5	133297	QPSK	20	24.5	23.43	-0.16	Left Tilt	1	50	0	1:1	4	0.030	1.279	0.038	-
680.5	133297	QPSK	20	25.5	24.35	-0.02	Right Cheek	0	1	0	1:1	4	0.105	1.303	0.137	21
680.5	133297	QPSK	20	24.5	23.43	-0.13	Right Cheek	1	50	0	1:1	4	0.082	1.279	0.105	-
680.5	133297	QPSK	20	25.5	24.35	-0.04	Right Tilt	0	1	0	1:1	4	0.026	1.303	0.034	-
680.5	133297	QPSK	20	24.5	23.43	0.05	Right Tilt	1	50	0	1:1	4	0.020	1.279	0.026	-

ANSI/ IEEE C95.1 - 2005– Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Head
1.6 W/kg
Averaged over 1 gram

NR Band n5 (Cell) Head SAR- Ant. A

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	20	25.5	23.80	0.13	Left Cheek	0	1	53	1:1	4	0.115	1.479	0.170	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	24.07	-0.19	Left Cheek	0	50	28	1:1	4	0.076	1.390	0.106	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	23.80	-0.01	Left Tilt	0	1	53	1:1	4	0.094	1.479	0.139	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	24.07	0.18	Left Tilt	0	50	28	1:1	4	0.00876	1.390	0.012	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	23.80	-0.01	Right Cheek	0	1	53	1:1	4	0.171	1.479	0.253	22
836.5	167300	DFT-s OFDM QPSK	20	25.5	24.07	0.18	Right Cheek	0	50	28	1:1	4	0.142	1.390	0.197	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	23.80	-0.15	Right Tilt	0	1	53	1:1	4	0.089	1.479	0.132	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	24.07	-0.08	Right Tilt	0	50	28	1:1	4	0.059	1.390	0.082	-
836.5	167300	CP QPSK	20	24.0	22.25	0.16	Right Cheek	1.5	1	1	1:1	4	0.110	1.496	0.165	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n12 Head SAR- Ant. A

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.92	-0.10	Left Cheek	0	1	1	1:1	1	0.099	1.439	0.143	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.98	0.18	Left Cheek	0	36	22	1:1	1	0.097	1.419	0.137	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.92	0.19	Left Tilt	0	1	1	1:1	1	0.044	1.439	0.064	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.98	0.12	Left Tilt	0	36	22	1:1	1	0.042	1.419	0.059	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.92	0.15	Right Cheek	0	1	1	1:1	1	0.115	1.439	0.165	23
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.98	-0.17	Right Cheek	0	36	22	1:1	1	0.106	1.419	0.150	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.92	0.11	Right Tilt	0	1	1	1:1	1	0.047	1.439	0.068	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.98	-0.12	Right Tilt	0	36	22	1:1	1	0.046	1.419	0.065	-
707.5	141500	CP QPSK	15	24.0	22.53	-0.12	Right Cheek	1.5	1	1	1:1	1	0.061	1.403	0.086	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n25 Head SAR- Ant. A

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.87	-0.13	Left Cheek	0	1	108	1:1	115	0.132	1.156	0.153	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	24.08	-0.12	Left Cheek	0	108	54	1:1	115	0.155	1.102	0.171	24
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.87	0.16	Left Tilt	0	1	108	1:1	115	0.081	1.156	0.094	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	24.08	0.01	Left Tilt	0	108	54	1:1	115	0.121	1.102	0.133	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.87	0.17	Right Cheek	0	1	108	1:1	115	0.076	1.156	0.088	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	24.08	-0.18	Right Cheek	0	108	54	1:1	115	0.084	1.102	0.093	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.87	0.15	Right Tilt	0	1	108	1:1	115	0.069	1.156	0.080	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	24.08	0.10	Right Tilt	0	108	54	1:1	115	0.081	1.102	0.089	-
1 882.5	376500	CP QPSK	40	23.0	22.35	-0.13	Left Cheek	1.5	1	1	1:1	115	0.086	1.161	0.100	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n30 Head SAR- Ant. B

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
2 310	462000	DFT-s OFDM QPSK	10	24.5	22.79	-0.14	Left Cheek	0	1	26	1:1		0.098	1.483	0.145	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.06	0.13	Left Cheek	0	25	14	1:1		0.100	1.393	0.139	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	22.79	0.15	Left Tilt	0	1	26	1:1		0.042	1.483	0.062	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.06	0.12	Left Tilt	0	25	14	1:1		0.049	1.393	0.068	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	22.79	0.16	Right Cheek	0	1	26	1:1		0.086	1.483	0.128	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.06	0.16	Right Cheek	0	25	14	1:1		0.107	1.393	0.149	25
2 310	462000	DFT-s OFDM QPSK	10	24.5	22.79	-0.09	Right Tilt	0	1	26	1:1		0.065	1.483	0.096	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.06	0.13	Right Tilt	0	25	14	1:1		0.069	1.393	0.096	-
2 310	462000	CP QPSK	10	23.0	21.26	0.17	Right Cheek	1.5	1	1	1:1		0.075	1.493	0.112	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n41 Head SAR – Power class 3 - Ant. B

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
2592.99	518598	DFT-s OFDM QPSK	100	25.0	23.73	-0.08	Left Cheek	0	1	137	1:1		0.054	1.340	0.072	-
2592.99	518598	DFT-s OFDM QPSK	100	25.0	23.50	0.18	Left Cheek	0	135	69	1:1		0.051	1.413	0.072	-
2592.99	518598	DFT-s OFDM QPSK	100	25.0	23.73	0.07	Left Tilt	0	1	137	1:1		0.035	1.340	0.047	-
2592.99	518598	DFT-s OFDM QPSK	100	25.0	23.50	0.15	Left Tilt	0	135	69	1:1		0.031	1.413	0.044	-
2592.99	518598	DFT-s OFDM QPSK	100	25.0	23.73	-0.10	Right Cheek	0	1	137	1:1		0.043	1.340	0.058	-
2592.99	518598	DFT-s OFDM QPSK	100	25.0	23.50	0.01	Right Cheek	0	135	69	1:1		0.041	1.413	0.058	-
2592.99	518598	DFT-s OFDM QPSK	100	25.0	23.73	-0.14	Right Tilt	0	1	137	1:1		0.054	1.340	0.072	-
2592.99	518598	DFT-s OFDM QPSK	100	25.0	23.50	0.14	Right Tilt	0	135	69	1:1		0.054	1.413	0.076	26
2592.99	518598	CP QPSK	100	23.5	21.59	-0.13	Right Tilt	1.5	1	1	1:1		0.029	1.552	0.045	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n41 Head SAR – Power class 2 - Ant. B

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
2592.99	518598	DFT-s OFDM QPSK	100	27.0	25.81	-0.11	Left Cheek	0	1	137	1:1		0.081	1.315	0.107	-
2592.99	518598	DFT-s OFDM QPSK	100	27.0	25.79	0.10	Left Cheek	0	135	69	1:1		0.086	1.321	0.114	27
2592.99	518598	DFT-s OFDM QPSK	100	27.0	25.81	0.14	Left Tilt	0	1	137	1:1		0.045	1.315	0.059	-
2592.99	518598	DFT-s OFDM QPSK	100	27.0	25.79	0.11	Left Tilt	0	135	69	1:1		0.044	1.321	0.058	-
2592.99	518598	DFT-s OFDM QPSK	100	27.0	25.81	-0.16	Right Cheek	0	1	137	1:1		0.047	1.315	0.062	-
2592.99	518598	DFT-s OFDM QPSK	100	27.0	25.79	0.10	Right Cheek	0	135	69	1:1		0.037	1.321	0.049	-
2592.99	518598	DFT-s OFDM QPSK	100	27.0	25.81	-0.19	Right Tilt	0	1	137	1:1		0.073	1.315	0.096	-
2592.99	518598	DFT-s OFDM QPSK	100	27.0	25.79	-0.15	Right Tilt	0	135	69	1:1		0.069	1.321	0.091	-
2592.99	518598	CP QPSK	100	25.5	24.14	-0.17	Left Cheek	1.5	1	1	1:1		0.047	1.368	0.064	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n66 Head SAR- Ant. A

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.00	0.16	Left Cheek	0	1	108	1:1	51	0.091	1.122	0.102	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.25	0.05	Left Cheek	0	108	54	1:1	51	0.098	1.059	0.104	28
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.00	-0.11	Left Tilt	0	1	108	1:1	51	0.039	1.122	0.044	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.25	0.11	Left Tilt	0	108	54	1:1	51	0.038	1.059	0.040	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.00	-0.05	Right Cheek	0	1	108	1:1	51	0.047	1.122	0.053	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.25	0.19	Right Cheek	0	108	54	1:1	51	0.051	1.059	0.054	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.00	-0.06	Right Tilt	0	1	108	1:1	51	0.051	1.122	0.057	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.25	-0.15	Right Tilt	0	108	54	1:1	51	0.049	1.059	0.052	-
1 745	349000	CP QPSK	40	23.0	22.48	-0.11	Left Cheek	1.5	1	1	1:1	51	0.062	1.127	0.070	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n71 Head SAR- Ant. A

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.35	0.15	Left Cheek	0	1	1	1:1	1	0.067	1.303	0.088	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.33	0.02	Left Cheek	0	50	28	1:1	1	0.061	1.309	0.079	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.35	0.19	Left Tilt	0	1	1	1:1	1	0.046	1.303	0.060	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.33	0.19	Left Tilt	0	50	28	1:1	1	0.043	1.309	0.056	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.35	0.19	Right Cheek	0	1	1	1:1	1	0.085	1.303	0.111	29
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.33	0.03	Right Cheek	0	50	28	1:1	1	0.074	1.309	0.097	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.35	-0.13	Right Tilt	0	1	1	1:1	1	0.050	1.303	0.065	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.33	-0.15	Right Tilt	0	50	28	1:1	1	0.057	1.309	0.074	-
680.5	136100	CP QPSK	20	24.0	23.02	0.01	Right Cheek	1.5	1	1	1:1	1	0.060	1.253	0.075	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n77 Head SAR- Power class 3- Ant. H (RCV-ON)

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
3930	652000	DFT-s OFDM QPSK	100	22.0	21.69	-0.11	Left Cheek	0	1	137	1:1		0.079	1.074	0.085	-
3840	656000	DFT-s OFDM QPSK	100	22.0	21.73	-0.02	Left Cheek	0	135	138	1:1		0.068	1.064	0.072	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.69	0.11	Left Tilt	0	1	137	1:1		0.080	1.074	0.086	-
3840	656000	DFT-s OFDM QPSK	100	22.0	21.73	0.16	Left Tilt	0	135	138	1:1		0.069	1.064	0.073	-
3750	650000	DFT-s OFDM QPSK	100	22.0	21.35	0.16	Right Cheek	0	1	137	1:1		0.661	1.161	0.767	30
3840	656000	DFT-s OFDM QPSK	100	22.0	21.49	0.13	Right Cheek	0	1	271	1:1		0.544	1.125	0.612	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.69	-0.13	Right Cheek	0	1	137	1:1		0.526	1.074	0.565	-
3750	650000	DFT-s OFDM QPSK	100	22.0	21.11	-0.03	Right Cheek	0	135	138	1:1		0.514	1.227	0.631	-
3840	656000	DFT-s OFDM QPSK	100	22.0	21.73	0.11	Right Cheek	0	135	138	1:1		0.500	1.064	0.532	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.71	-0.08	Right Cheek	0	135	138	1:1		0.550	1.069	0.588	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.63	-0.01	Right Cheek	0	270	0	1:1		0.591	1.089	0.644	-
3750	650000	DFT-s OFDM QPSK	100	22.0	21.35	-0.18	Right Tilt	0	1	137	1:1		0.426	1.161	0.495	-
3840	656000	DFT-s OFDM QPSK	100	22.0	21.49	-0.10	Right Tilt	0	1	271	1:1		0.325	1.125	0.366	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.69	0.06	Right Tilt	0	1	137	1:1		0.395	1.074	0.424	-
3750	650000	DFT-s OFDM QPSK	100	22.0	21.11	-0.10	Right Tilt	0	135	138	1:1		0.395	1.227	0.485	-
3840	656000	DFT-s OFDM QPSK	100	22.0	21.73	0.17	Right Tilt	0	135	138	1:1		0.396	1.064	0.421	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.71	-0.01	Right Tilt	0	135	138	1:1		0.404	1.069	0.432	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.63	0.12	Right Tilt	0	270	0	1:1		0.470	1.089	0.512	-
3930	652000	CP QPSK	100	22.0	21.33	-0.16	Right Cheek	0	1	1	1:1		0.482	1.167	0.562	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

* Power reduction condition during Receiver_ON

NR Band n77 Head SAR- Power class 2- Ant. H (RCV-ON)

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
(Mhz)	(dBm)	(dBm)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(W/kg)	(W/kg)	(W/kg)	(W/kg)
3930	652000	DFT-s OFDM QPSK	100	22.0	21.55	-0.10	Left Cheek	0	1	137	1:1		0.132	1.109	0.146	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.55	-0.14	Left Cheek	0	135	69	1:1		0.129	1.109	0.143	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.55	0.14	Left Tilt	0	1	137	1:1		0.135	1.109	0.150	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.55	0.11	Left Tilt	0	135	69	1:1		0.128	1.109	0.142	-
3750	650000	DFT-s OFDM QPSK	100	22.0	21.16	-0.18	Right Cheek	0	1	137	1:1		0.509	1.213	0.617	-
3840	656000	DFT-s OFDM QPSK	100	22.0	21.38	-0.15	Right Cheek	0	1	271	1:1		0.393	1.153	0.453	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.55	0.18	Right Cheek	0	1	137	1:1		0.561	1.109	0.622	31
3750	650000	DFT-s OFDM QPSK	100	22.0	20.96	-0.14	Right Cheek	0	135	138	1:1		0.509	1.271	0.647	32
3840	656000	DFT-s OFDM QPSK	100	22.0	21.54	-0.18	Right Cheek	0	135	138	1:1		0.427	1.112	0.475	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.55	-0.15	Right Cheek	0	135	69	1:1		0.488	1.109	0.541	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.47	0.02	Right Cheek	0	270	0	1:1		0.479	1.130	0.541	-
3750	650000	DFT-s OFDM QPSK	100	22.0	21.16	-0.16	Right Tilt	0	1	137	1:1		0.347	1.213	0.421	-
3840	656000	DFT-s OFDM QPSK	100	22.0	21.38	0.01	Right Tilt	0	1	271	1:1		0.321	1.153	0.370	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.55	0.06	Right Tilt	0	1	137	1:1		0.471	1.109	0.522	-
3750	650000	DFT-s OFDM QPSK	100	22.0	20.96	0.16	Right Tilt	0	135	138	1:1		0.451	1.271	0.573	-
3840	656000	DFT-s OFDM QPSK	100	22.0	21.54	-0.17	Right Tilt	0	135	138	1:1		0.423	1.112	0.470	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.55	-0.11	Right Tilt	0	135	69	1:1		0.421	1.109	0.467	-
3930	652000	DFT-s OFDM QPSK	100	22.0	21.47	-0.08	Right Tilt	0	270	0	1:1		0.462	1.130	0.522	-
3930	652000	CP QPSK	100	22.0	21.25	-0.13	Right Cheek	0	1	1	1:1		0.446	1.189	0.530	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

* Power reduction condition during Receiver_ON

DTS Head SAR 1g – RCV-ON

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant. Config.	Duty Cycle	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.															
2 437	6	802.11b	20	1	13	12.83	-0.18	Left Cheek	Ant1	99.0	0.293	0.180	1.040	1.010	0.189	-
2 437	6	802.11b	20	1	13	12.83	0.01	Left Tilt	Ant1	99.0	0.394	0.296	1.040	1.010	0.311	-
2 437	6	802.11b	20	1	13	12.83	-0.02	Right Cheek	Ant1	99.0	0.418	0.222	1.040	1.010	0.233	-
2 437	6	802.11b	20	1	13	12.83	-0.03	Right Tilt	Ant1	99.0	0.452	0.256	1.040	1.010	0.269	-
2 437	6	802.11b	20	1	13	12.48	-0.12	Left Cheek	Ant2	99.0	0.0396	0.012	1.127	1.010	0.014	-
2 437	6	802.11b	20	1	13	12.48	0.19	Left Tilt	Ant2	99.0	0.0066	0.00408	1.127	1.010	0.005	-
2 437	6	802.11b	20	1	13	12.48	-0.18	Right Cheek	Ant2	99.0	0.155	0.080	1.127	1.010	0.091	-
2 437	6	802.11b	20	1	13	12.48	-0.12	Right Tilt	Ant2	99.0	0.0346	0.017	1.127	1.010	0.019	-
2 462	11	802.11g	20	6	16	15.60	-0.07	Left Cheek	MIMO	93.6	0.373	0.22	1.135	1.068	0.267	-
2 462	11	802.11g	20	6	16	15.60	-0.17	Left Tilt	MIMO	93.6	0.447	0.278	1.135	1.068	0.337	-
2 462	11	802.11g	20	6	16	15.60	-0.14	Right Cheek	MIMO	93.6	0.614	0.307	1.135	1.068	0.372	33
2 462	11	802.11g	20	6	16	15.60	0.03	Right Tilt	MIMO	93.6	0.550	0.309	1.135	1.068	0.375	34
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Head 1.6 W/kg Averaged over 1 gram						

* Head condition and Head condition during simultaneous conditions with mmWave and/or 5G Sub 6

* Since the result of the above mode was the worst case condition than the RSBD mode, it was applied to the simultaneous transmission evaluation of the WLAN RSDB mode.

NII Head SAR RCV-ON / mmWave/ RSDB RCV-ON																
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant Config.	Duty Cycle	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(Mbps)	(dBm)	(dBm)	(dB)				(W/kg)	(W/kg)		(Duty)	(W/kg)	
5 290	58	802.11ac	80	MCS0	11	10.32	0.13	Left Cheek	Ant1	86.05	0.238	0.057	1.169	1.162	0.077	-
5 290	58	802.11ac	80	MCS0	11	10.32	-0.09	Left Tilt	Ant1	86.05	0.13	0.052	1.169	1.162	0.071	-
5 290	58	802.11ac	80	MCS0	11	10.32	-0.10	Right Check	Ant1	86.05	0.602	0.204	1.169	1.162	0.277	35
5 290	58	802.11ac	80	MCS0	11	10.32	-0.06	Right Tilt	Ant1	86.05	0.429	0.144	1.169	1.162	0.196	-
5 290	58	802.11ac	80	MCS0	11	9.07	-0.16	Left Cheek	Ant2	86.05	0.0976	0.011	1.560	1.162	0.020	-
5 290	58	802.11ac	80	MCS0	11	9.07	0.01	Left Tilt	Ant2	86.05	0.0455	0.00435	1.560	1.162	0.008	-
5 290	58	802.11ac	80	MCS0	11	9.07	0.19	Right Check	Ant2	86.05	0.539	0.150	1.560	1.162	0.272	-
5 290	58	802.11ac	80	MCS0	11	9.07	0.17	Right Tilt	Ant2	86.05	0.0882	0.017	1.560	1.162	0.031	-
5 290	58	802.11ac	80	MCS0	14	12.75	-0.05	Left Cheek	MIMO	86.05	0.114	0.026	1.560	1.162	0.047	-
5 290	58	802.11ac	80	MCS0	14	12.75	-0.18	Left Tilt	MIMO	86.05	0.0851	0.026	1.560	1.162	0.047	-
5 290	58	802.11ac	80	MCS0	14	12.75	-0.19	Right Check	MIMO	86.05	0.454	0.121	1.560	1.162	0.219	-
5 290	58	802.11ac	80	MCS0	14	12.75	0.14	Right Tilt	MIMO	86.05	0.266	0.085	1.560	1.162	0.154	-
5 610	122	802.11ac	80	MCS0	11	10.98	-0.05	Left Cheek	Ant1	86.05	0.138	0.043	1.005	1.162	0.050	-
5 610	122	802.11ac	80	MCS0	11	10.98	0.12	Left Tilt	Ant1	86.05	0.192	0.045	1.005	1.162	0.053	-
5 610	122	802.11ac	80	MCS0	11	10.98	-0.15	Right Cheek	Ant1	86.05	0.821	0.206	1.005	1.162	0.241	36
5 610	122	802.11ac	80	MCS0	11	10.98	-0.09	Right Tilt	Ant1	86.05	0.386	0.148	1.005	1.162	0.173	-
5 610	122	802.11ac	80	MCS0	11	9.86	0.01	Left Cheek	Ant2	86.05	0.0375	0.00999	1.300	1.162	0.015	-
5 610	122	802.11ac	80	MCS0	11	9.86	0.00	Left Tilt	Ant2	86.05	0.000	0.000003	1.300	1.162	0.000	-
5 610	122	802.11ac	80	MCS0	11	9.86	-0.09	Right Cheek	Ant2	86.05	0.507	0.098	1.300	1.162	0.148	-
5 610	122	802.11ac	80	MCS0	11	9.86	-0.10	Right Tilt	Ant2	86.05	0.0289	0.00871	1.300	1.162	0.013	-
5 610	122	802.11ac	80	MCS0	14	13.47	-0.01	Left Cheek	MIMO	86.05	0.380	0.044	1.300	1.162	0.066	-
5 610	122	802.11ac	80	MCS0	14	13.47	0.12	Left Tilt	MIMO	86.05	0.0863	0.020	1.300	1.162	0.030	-
5 610	122	802.11ac	80	MCS0	14	13.47	-0.17	Right Cheek	MIMO	86.05	0.466	0.145	1.300	1.162	0.219	-
5 610	122	802.11ac	80	MCS0	14	13.47	-0.12	Right Tilt	MIMO	86.05	0.367	0.131	1.300	1.162	0.198	-
5 775	155	802.11ac	80	MCS0	11	10.55	-0.11	Left Cheek	Ant1	86.05	0.344	0.053	1.109	1.162	0.068	-
5 775	155	802.11ac	80	MCS0	11	10.55	0.18	Left Tilt	Ant1	86.05	0.197	0.056	1.109	1.162	0.072	-
5 775	155	802.11ac	80	MCS0	11	10.55	-0.15	Right Cheek	Ant1	86.05	0.312	0.084	1.109	1.162	0.108	-
5 775	155	802.11ac	80	MCS0	11	10.55	0.08	Right Tilt	Ant1	86.05	0.399	0.136	1.109	1.162	0.175	-
5 775	155	802.11ac	80	MCS0	11	10.41	-0.10	Left Cheek	Ant2	86.05	0.0253	0.00904	1.146	1.162	0.012	-
5 775	155	802.11ac	80	MCS0	11	10.41	0.01	Left Tilt	Ant2	86.05	0.0136	0.000	1.146	1.162	0.000	-
5 775	155	802.11ac	80	MCS0	11	10.41	0.15	Right Cheek	Ant2	86.05	0.180	0.048	1.146	1.162	0.064	-
5 775	155	802.11ac	80	MCS0	11	10.41	0.00	Right Tilt	Ant2	86.05	0.125	0.029	1.146	1.162	0.039	-
5 775	155	802.11ac	80	MCS0	14	13.49	-0.10	Left Cheek	MIMO	86.05	0.155	0.025	1.146	1.162	0.033	-
5 775	155	802.11ac	80	MCS0	14	13.49	-0.16	Left Tilt	MIMO	86.05	0.173	0.043	1.146	1.162	0.057	-
5 775	155	802.11ac	80	MCS0	14	13.49	0.11	Right Cheek	MIMO	86.05	0.655	0.156	1.146	1.162	0.208	-
5 775	155	802.11ac	80	MCS0	14	13.49	0.03	Right Tilt	MIMO	86.05	0.323	0.129	1.146	1.162	0.172	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

* Head condition during simultaneous conditions with 2.4GHz WLAN

* Head condition during simultaneous conditions with mmWave and/or 2.4 GHz WLAN.

DSS Head SAR											
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dBm)	(dBm)	(dB)		(W/kg)		(Duty)	(W/kg)	
2 480	78	Bluetooth DH5	14.5	13.91	-0.12	Left Cheek	0.230	1.146	1.300	0.343	-
2 480	78	Bluetooth DH5	14.5	13.91	0.04	Left Tilt	0.309	1.146	1.300	0.460	37
2 480	78	Bluetooth DH5	14.5	13.91	-0.01	Right Cheek	0.223	1.146	1.300	0.332	-
2 480	78	Bluetooth DH5	14.5	13.91	0.06	Right Tilt	0.297	1.146	1.300	0.442	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram					

13.2 Body-worn SAR Measurement Results (DSI = 0)

CDMA Body-Worn

CDMA/GSM/ UMTS Body-Worn SAR- Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dB)	(dB)	(dB)					(W/kg)		(W/kg)	
836.52	384	CDMA BC0	TDSO RC32/SO55	25.0	24.83	0.16	Rear	1:1	111	15	0.367	1.040	0.382	38
836.52	384	CDMA BC0	TDSO RC32/SO55	25.0	24.83	-0.01	Front	1:1	111	15	0.290	1.040	0.302	-
836.52	384	CDMA BC0	EVDO Rev. A	25.0	24.06	0.04	Rear	1:1	111	15	0.304	1.242	0.378	-
836.52	384	CDMA BC0	EVDO Rev. A	25.0	24.06	-0.19	Front	1:1	111	15	0.240	1.242	0.298	-
1 851.25	25	PCS CDMA	TDSO RC32/SO55	24.5	22.71	0.02	Rear	1:1	115	15	0.599	1.510	0.904	39
1 880.0	600	PCS CDMA	TDSO RC32/SO55	24.5	23.31	0.02	Rear	1:1	115	15	0.629	1.315	0.827	-
1 908.75	1175	PCS CDMA	TDSO RC32/SO55	24.5	23.37	-0.04	Rear	1:1	115	15	0.678	1.297	0.879	40
1 908.75	1175	PCS CDMA	TDSO RC32/SO55	24.5	23.37	-0.08	Front	1:1	115	15	0.529	1.297	0.686	-
1 851.25	25	PCS CDMA	EVDO Rev. A	24.5	22.69	0.02	Rear	1:1	115	15	0.534	1.517	0.810	-
1 880.0	600	PCS CDMA	EVDO Rev. A	24.5	23.36	-0.06	Rear	1:1	115	15	0.554	1.300	0.720	-
1 908.75	1175	PCS CDMA	EVDO Rev. A	24.5	23.41	-0.04	Rear	1:1	115	15	0.629	1.285	0.808	-
1 908.75	1175	PCS CDMA	EVDO Rev. A	24.5	23.41	-0.04	Front	1:1	115	15	0.603	1.285	0.775	-
820	560	CDMA BC10	TDSO RC32/SO55	25.0	24.77	-0.02	Rear	1:1	111	15	0.295	1.054	0.311	-
820	560	CDMA BC10	TDSO RC32/SO55	25.0	24.77	-0.02	Front	1:1	111	15	0.296	1.054	0.312	41
820	560	CDMA BC10	EVDO Rev.A	25.0	24.01	0.03	Rear	1:1	111	15	0.277	1.256	0.348	42
820	560	CDMA BC10	EVDO Rev.A	25.0	24.01	-0.02	Front	1:1	111	15	0.233	1.256	0.293	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

GSM/ UMTS Body-Worn

CDMA/GSM/ UMTS Body-Worn SAR- Ant. A														
Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
836.6	190	GSM 850 Voice		33.5	32.56	0.02	Rear	1:8.3	1	15	0.212	1.242	0.263	-
836.6	190	GSM 850 Voice		33.5	32.56	0.16	Front	1:8.3	1	15	0.283	1.242	0.351	-
836.6	190	GSM 850 GPRS 2Tx		32.0	31.96	-0.04	Rear	1:4.15	1	15	0.355	1.009	0.358	43
836.6	190	GSM 850 GPRS 2Tx		32.0	31.96	-0.13	Front	1:4.15	1	15	0.340	1.009	0.343	-
1 880	661	GSM 1900 Voice		30.5	29.71	0.04	Rear	1:8.3	115	15	0.302	1.199	0.362	-
1 880	661	GSM 1900 Voice		30.5	29.71	0.12	Front	1:8.3	115	15	0.286	1.199	0.343	-
1 880	661	GSM 1900 GPRS 3Tx		28.0	27.56	-0.13	Rear	1:2.77	115	15	0.432	1.107	0.478	44
1 880	661	GSM 1900 GPRS 3Tx		28.0	27.56	0.15	Front	1:2.77	115	15	0.380	1.107	0.421	-
836.6	4183	UMTS 850	RMC	25.0	24.16	0.02	Rear	1:1	1	15	0.197	1.213	0.239	-
836.6	4183	UMTS 850	RMC	25.0	24.16	0.04	Front	1:1	1	15	0.220	1.213	0.267	45
1 712.4	1312	UMTS 1700	RMC	24.5	23.74	0.11	Rear	1:1	51	15	0.676	1.191	0.805	-
1 732.4	1412	UMTS 1700	RMC	24.5	23.77	0.14	Rear	1:1	51	15	0.686	1.183	0.812	-
1 752.8	1513	UMTS 1700	RMC	24.5	23.91	-0.10	Rear	1:1	51	15	0.781	1.146	0.895	46
1 732.4	1412	UMTS 1700	RMC	24.5	23.77	0.02	Front	1:1	51	15	0.652	1.183	0.771	-
1 880	9400	UMTS 1900	RMC	24.5	24.31	0.10	Rear	1:1	113	15	0.621	1.045	0.649	-
1 880	9400	UMTS 1900	RMC	24.5	24.31	-0.13	Front	1:1	113	15	0.658	1.045	0.688	47
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

LTE Body-Worn

LTE Body-Worn SAR																			
Frequency		Mode	Band	Tune-	Meas.	Power	Test	MPR	RB	RB	Duty	Ant.	Distance	Meas.	Scaling	Scaled	Plot		
MHz	Ch.		(MHz)	Up Limit	Power	Drift		(dB)	Size	offset			(mm)	SAR	Factor	SAR			
				(dBm)	(dBm)	(dB)	Position				Cycle	State		(W/kg)		(W/kg)	No.		
2 560	21350	LTE 7 QPSK Ant.B	20	24.5	23.82	-0.13	Rear	0	1	99	1:1		15	0.504	1.169	0.589	48		
2 560	21350		20	23.5	22.77	-0.10	Rear	1	50	25	1:1		15	0.372	1.183	0.440	-		
2 560	21350		20	24.5	23.82	0.05	Front	0	1	99	1:1		15	0.430	1.169	0.503	-		
2 560	21350		20	23.5	22.77	0.09	Front	1	50	25	1:1		15	0.362	1.183	0.428	-		
707.5	23095	LTE 12 QPSK Ant.A	10	25.5	23.99	-0.05	Rear	0	1	0	1:1	4	15	0.186	1.416	0.263	49		
707.5	23095		10	24.5	22.96	-0.02	Rear	1	25	12	1:1	4	15	0.169	1.426	0.241	-		
707.5	23095		10	25.5	23.99	-0.01	Front	0	1	0	1:1	4	15	0.172	1.416	0.244	50		
707.5	23095		10	24.5	22.96	-0.03	Front	1	25	12	1:1	4	15	0.152	1.426	0.217	-		
782	23230	LTE 13 QPSK Ant.A	10	25.5	23.89	-0.05	Rear	0	1	24	1:1	1	15	0.227	1.449	0.329	51		
782	23230		10	24.5	22.98	-0.04	Rear	1	25	0	1:1	1	15	0.180	1.419	0.255	-		
782	23230		10	25.5	23.89	-0.07	Front	0	1	24	1:1	1	15	0.222	1.449	0.322	-		
782	23230		10	24.5	22.98	-0.10	Front	1	25	0	1:1	1	15	0.185	1.419	0.263	-		
793	23330	LTE 14 QPSK Ant.A	10	25.5	24.70	-0.04	Rear	0	1	0	1:1	4	15	0.245	1.202	0.294	-		
793	23330		10	24.5	23.42	0.01	Rear	1	25	12	1:1	4	15	0.205	1.282	0.263	-		
793	23330		10	25.5	24.70	0.01	Front	0	1	0	1:1	4	15	0.272	1.202	0.327	52		
793	23330		10	24.5	23.42	-0.05	Front	1	25	12	1:1	4	15	0.222	1.282	0.285	-		
1 882.5	26365	LTE 25 QPSK Ant.A	20	25.0	24.61	-0.16	Rear	0	1	0	1:1	115	15	0.612	1.094	0.670	-		
1 882.5	26365		20	24.0	23.71	-0.15	Rear	1	50	25	1:1	115	15	0.529	1.069	0.566	-		
1 882.5	26365		20	25.0	24.61	-0.12	Front	0	1	0	1:1	115	15	0.614	1.094	0.672	53		
1 882.5	26365		20	24.0	23.71	-0.10	Front	1	50	25	1:1	115	15	0.524	1.069	0.560	-		
2 310	27710	LTE 30 QPSK Ant.B	10	23.0	22.31	0.10	Rear	0	1	24	1:1		15	0.581	1.172	0.681	-		
2 310	27710		10	22.0	21.39	0.15	Rear	1	25	0	1:1		15	0.443	1.151	0.510	-		
2 310	27710		10	23.0	22.31	-0.08	Front	0	1	24	1:1		15	0.621	1.172	0.728	54		
2 310	27710		10	22.0	21.39	-0.09	Front	1	25	0	1:1		15	0.498	1.151	0.573	-		
2 310	38750	LTE 40 QPSK (Low) Ant.B	10	14.0	13.43	0.12	Rear	0	1	24	1:1.58		15	0.037	1.140	0.042	-		
2 310	38750		10	14.0	13.59	-0.11	Rear	0	25	12	1:1.58		15	0.029	1.099	0.032	-		
2 310	38750		10	14.0	13.43	0.01	Front	0	1	24	1:1.58		15	0.039	1.140	0.044	55		
2 310	38750		10	14.0	13.59	-0.01	Front	0	25	12	1:1.58		15	0.027	1.099	0.030	-		
2 535	39200	LTE 40 QPSK (Upper) Ant.B	10	14.0	13.42	-0.10	Rear	0	1	24	1:1.58		15	0.038	1.143	0.043	-		
2 535	39200		10	14.0	13.59	-0.10	Rear	0	25	12	1:1.58		15	0.040	1.099	0.044	56		
2 535	39200		10	14.0	13.42	-0.10	Front	0	1	24	1:1.58		15	0.000	1.099	0.000	-		
2 535	39200		10	14.0	13.59	0.00	Front	0	25	12	1:1.58		15	0.000	1.099	0.000	-		
680.5	133297	LTE 71 QPSK Ant.A	20	25.5	24.35	-0.07	Rear	0	1	0	1:1	4	15	0.169	1.303	0.220	57		
680.5	133297		20	24.5	23.43	-0.05	Rear	1	50	0	1:1	4	15	0.138	1.279	0.177	-		
680.5	133297		20	25.5	24.35	0.01	Front	0	1	0	1:1	4	15	0.143	1.303	0.186	-		
680.5	133297		20	24.5	23.43	0.01	Front	1	50	0	1:1	4	15	0.121	1.279	0.155	-		
ANSI/ IEEE C95.1 - 2005- Safety Limit								Body											
Spatial Peak								1.6 W/kg											
Uncontrolled Exposure/ General Population								Averaged over 1 gram											

LTE Body-Worn

LTE Body-Worn SAR																		
Component CA	Frequency		Mode	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Dista nce	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
	831.5	26865	Ant.A LTE 26 QPSK	15	25.5	24.02	0.11	Rear	0	1	0	1:1	4	15	0.242	1.406	0.340	-
	831.5	26865		15	24.5	23.16	0.01	Rear	1	36	39	1:1	4	15	0.233	1.361	0.317	-
	831.5	26865		15	25.5	24.02	-0.06	Front	0	1	0	1:1	4	15	0.210	1.406	0.295	-
	831.5	26865		15	24.5	23.16	-0.04	Front	1	36	39	1:1	4	15	0.164	1.361	0.223	-
LTE Band 5 Up-link Carrier Aggregation (5B)																		
PCC	836.5	20525	LTE 5 QPSK	10	25.5	24.31	-0.03	Rear	0	1	49	1:1	4	15	0.373	1.315	0.490	58
SCC	843.7	20597		5						1	0							
Power class 3																		
	2 593	40620	Ant.B LTE 41 QPSK	20	25.5	24.79	0.11	Rear	0	1	99	1:1.58		15	0.217	1.178	0.256	-
	2 593	40620		20	24.5	24.18	0.04	Rear	1	50	25	1:1.58		15	0.170	1.076	0.183	-
	2 593	40620		20	25.5	24.79	0.12	Front	0	1	99	1:1.58		15	0.256	1.178	0.302	-
	2 593	40620		20	24.5	24.18	0.10	Front	1	50	25	1:1.58		15	0.203	1.076	0.218	-
Power class 2 (HPUE)																		
	2 593	40620	QPSK	20	27.0	26.55	0.13	Front	0	1	99	1:2.31		15	0.270	1.109	0.299	-
Up-link Carrier Aggregation Power class 3 (41C)																		
PCC	2 506	39750	QPSK	20	25.5	24.75	0.13	Front	0	1	99	1:1.58		15	0.294	1.189	0.350	59
SCC	2612.8	40818		20						1	0							
Up-link Carrier Aggregation Power class 2 (HPUE) (41C)																		
PCC	2 506	39750	QPSK	20	27.0	26.53	0.15	Front	0	1	99	1:2.31		15	0.300	1.114	0.334	60
SCC	2612.8	40818		20						1	0							
	3 560	55340	Ant.H LTE 48 QPSK	20	24.0	23.80	-0.16	Rear	0	1	99	1:1.58		15	0.167	1.047	0.175	61
	3 560	55340		20	23.0	22.97	0.12	Rear	1	50	49	1:1.58		15	0.137	1.007	0.138	-
	3 560	55340		20	24.0	23.80	0.02	Front	0	1	99	1:1.58		15	0.156	1.047	0.163	-
	3 560	55340		20	23.0	22.97	0.04	Front	1	50	49	1:1.58		15	0.129	1.007	0.130	-
Up-link Carrier Aggregation (48C)																		
PCC	3 560	55340	QPSK	20	24.0	23.75	-0.11	Rear	0	1	99	1:1.58		15	0.072	1.059	0.076	-
SCC	3 670.2	56442		20						1	0							
	1 770	132572	Ant.A LTE 66 QPSK	20	24.5	24.01	-0.12	Rear	0	1	0	1:1	51	15	0.412	1.119	0.461	62
	1 745	132322		20	23.5	23.05	-0.06	Rear	1	50	49	1:1	51	15	0.300	1.109	0.333	-
	1 770	132572		20	24.5	24.01	-0.06	Front	0	1	0	1:1	51	15	0.412	1.119	0.461	-
	1 745	132322		20	23.5	23.05	-0.06	Front	1	50	49	1:1	51	15	0.294	1.109	0.326	-
Up-link Carrier Aggregation (66B)																		
PCC	1 745	132322	QPSK	10	24.5	23.91	-0.19	Rear	0	1	0	1:1	51	15	0.402	1.146	0.461	-
SCC	1 735.1	132223		10						1	49	1:1						
Up-link Carrier Aggregation (66C)																		
PCC	1 770	132572	QPSK	20	24.5	23.91	-0.05	Rear	0	1	0	1:1	51	15	0.379	1.146	0.434	-
SCC	1750.2	132374		20						1	99	1:1						
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

NR Band Body-Worn

NR Body-Worn SAR																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
836.5	167300	Ant.A	20	25.5	23.80	0.01	Rear	0	1	53	1:1	4	15	0.209	1.479	0.309	63
836.5	167300	NR n5	20	25.5	24.07	0.07	Rear	0	50	28	1:1	4	15	0.151	1.390	0.210	-
836.5	167300	DFT-s OFDM	20	25.5	23.80	0.12	Front	0	1	53	1:1	4	15	0.197	1.479	0.291	-
836.5	167300	QPSK	20	25.5	24.07	-0.04	Front	0	50	28	1:1	4	15	0.160	1.390	0.222	-
836.5	167300	CP QPSK	20	24.0	22.25	-0.10	Rear	1.5	1	1	1:1	4	15	0.136	1.496	0.204	-
707.5	141500	Ant.A	15	25.5	23.92	-0.02	Rear	0	1	1	1:1	1	15	0.172	1.439	0.248	64
707.5	141500	NR n12	15	25.5	23.98	-0.09	Rear	0	36	22	1:1	1	15	0.154	1.419	0.218	-
707.5	141500	DFT-s OFDM	15	25.5	23.92	-0.11	Front	0	1	1	1:1	1	15	0.144	1.439	0.207	-
707.5	141500	QPSK	15	25.5	23.98	0.09	Front	0	36	22	1:1	1	15	0.139	1.419	0.198	-
707.5	141500	CP QPSK	15	24.0	22.53	-0.17	Rear	1.5	1	1	1:1	1	15	0.097	1.403	0.136	-
1 882.5	376500	Ant.A	40	24.5	23.87	0.18	Rear	0	1	108	1:1	115	15	0.488	1.156	0.564	65
1 882.5	376500	NR n25	40	24.5	24.08	-0.19	Rear	0	108	54	1:1	115	15	0.509	1.102	0.561	66
1 882.5	376500	DFT-s OFDM	40	24.5	23.87	0.17	Front	0	1	108	1:1	115	15	0.366	1.156	0.423	-
1 882.5	376500	QPSK	40	24.5	24.08	-0.07	Front	0	108	54	1:1	115	15	0.381	1.102	0.420	-
1 882.5	376500	CP QPSK	40	23.0	22.35	-0.17	Rear	1.5	1	1	1:1	115	15	0.195	1.161	0.226	-
2 310	462000	Ant.B	10	24.5	22.79	0.16	Rear	0	1	26	1:1		15	0.563	1.483	0.835	67
2 310	462000	NR n30	10	24.5	23.06	0.15	Rear	0	25	14	1:1		15	0.527	1.393	0.734	-
2 310	462000	DFT-s OFDM	10	23.5	21.96	0.01	Rear	0	50	0	1:1		15	0.515	1.426	0.734	-
2 310	462000	QPSK	10	24.5	22.79	0.08	Front	0	1	26	1:1		15	0.505	1.483	0.749	-
2 310	462000	CP QPSK	10	24.5	23.06	0.16	Front	0	25	14	1:1		15	0.526	1.393	0.733	-
2 310	462000	CP QPSK	10	23.0	21.26	0.18	Rear	1.5	1	1	1:1		15	0.381	1.493	0.569	-
2 592.99	518598	Ant.B	100	25.0	23.73	-0.19	Rear	0	1	137	1:1		15	0.188	1.340	0.252	-
2 592.99	518598	NR n41(PC3)	100	25.0	23.50	0.10	Rear	0	135	69	1:1		15	0.174	1.413	0.246	-
2 592.99	518598	DFT-s OFDM	100	25.0	23.73	0.11	Front	0	1	137	1:1		15	0.190	1.340	0.255	-
2 592.99	518598	QPSK	100	25.0	23.50	0.11	Front	0	135	69	1:1		15	0.193	1.413	0.273	68
2 592.99	518598	CP QPSK	100	23.5	21.59	-0.14	Front	1.5	1	1	1:1		15	0.079	1.552	0.123	-
2592.99	518598	Ant.B	100	27.0	25.81	0.13	Rear	0	1	137	1:1		15	0.245	1.315	0.322	-
2592.99	518598	NR n41(PC2)	100	27.0	25.79	-0.17	Rear	0	135	69	1:1		15	0.267	1.321	0.353	-
2592.99	518598	DFT-s OFDM	100	27.0	25.81	0.10	Front	0	1	137	1:1		15	0.279	1.315	0.367	-
2592.99	518598	QPSK	100	27.0	25.79	0.11	Front	0	135	69	1:1		15	0.294	1.321	0.388	69
2592.99	518598	CP QPSK	100	25.5	24.14	-0.10	Front	1.5	1	1	1:1		15	0.145	1.368	0.198	-
ANSI/ IEEE C95.1 –2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

NR Band Body-Worn

NR Body-Worn SAR																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)	Size	offset			(mm)	(W/kg)		(W/kg)	
1 745	349000	Ant.A	40	24.5	24.00	0.01	Rear	0	1	108	1:1	51	15	0.458	1.122	0.514	-
1 745	349000	NR n66	40	24.5	24.25	0.10	Rear	0	108	54	1:1	51	15	0.592	1.059	0.627	70
1 745	349000	DFT-s OFDM	40	24.5	24.00	0.14	Front	0	1	108	1:1	51	15	0.421	1.122	0.472	-
1 745	349000	QPSK	40	24.5	24.25	-0.14	Front	0	108	54	1:1	51	15	0.533	1.059	0.564	-
1 745	349000	CP QPSK	40	23.0	22.48	-0.01	Rear	1.5	1	1	1:1	51	15	0.408	1.127	0.460	-
680.5	136100	Ant.A	20	25.5	24.35	-0.01	Rear	0	1	1	1:1	1	15	0.149	1.303	0.194	71
680.5	136100	NR n71	20	25.5	24.33	-0.05	Rear	0	50	28	1:1	1	15	0.144	1.309	0.188	-
680.5	136100	DFT-s OFDM	20	25.5	24.35	-0.03	Front	0	1	1	1:1	1	15	0.132	1.303	0.171	-
680.5	136100	QPSK	20	25.5	24.33	0.03	Front	0	50	28	1:1	1	15	0.129	1.309	0.169	-
680.5	136100	CP QPSK	20	24.0	23.02	-0.15	Front	1.5	1	1	1:1	1	15	0.088	1.253	0.110	-
3930	662000	Ant.H	100	25.0	24.02	0.03	Rear	0	1	137	1:1		15	0.085	1.253	0.107	-
3930	662000	NR n77	100	25.0	24.04	-0.10	Rear	0	135	69	1:1		15	0.070	1.247	0.087	-
3930	662000	DFT-s OFDM	100	25.0	24.02	-0.07	Front	0	1	137	1:1		15	0.089	1.253	0.112	72
3930	662000	QPSK (PC3)	100	25.0	24.04	-0.14	Front	0	135	69	1:1		15	0.083	1.247	0.104	-
3930	662000	CP QPSK	100	23.5	22.28	0.01	Rear	1.5	1	1	1:1		15	0.027	1.324	0.036	-
3930	662000	Ant.H	100	27.5	26.52	-0.18	Rear	0	1	137	1:1		15	0.128	1.253	0.160	-
3930	662000	NR n77	100	27.5	26.54	0.14	Rear	0	135	69	1:1		15	0.122	1.247	0.152	-
3930	662000	DFT-s OFDM	100	27.5	26.52	0.07	Front	0	1	137	1:1		15	0.138	1.253	0.173	73
3930	662000	QPSK (PC2)	100	27.5	26.54	0.15	Front	0	135	69	1:1		15	0.126	1.247	0.157	-
3930	662000	CP QPSK	100	26.0	24.93	0.10	Front	1.5	1	1	1:1		15	0.100	1.279	0.128	-
ANSI/ IEEE C95.1 –2005– Safety Limit							Body										
Spatial Peak							1.6 W/kg										
Uncontrolled Exposure/ General Population							Averaged over 1 gram										

DTS Body-Worn SAR

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant. Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
2 437	6	802.11b	20	1	20	19.30	-0.01	Rear	Ant1	99.0	15	0.288	0.191	1.175	1.010	0.227	74
2 437	6	802.11b	20	1	20	19.30		Front	Ant1	99.0	15	0.222		1.175	1.010		-
2 437	6	802.11b	20	1	20	18.69	0.19	Rear	Ant2	99.0	15	0.0579	0.035	1.352	1.010	0.048	-
2 437	6	802.11b	20	1	20	18.69		Front	Ant2	99.0	15	0.0481		1.352	1.010		-
2 412	1	802.11g	20	6	20	19.69	0.10	Rear	MIMO	93.6	15	0.153	0.100	1.119	1.068	0.120	-
2 412	1	802.11g	20	6	20	19.69		Front	MIMO	93.6	15	0.119		1.119	1.068		-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

DTS Body-Worn SAR 1g – mmWave/5G Sub 6

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant. Config	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
2 437	6	802.11b	20	1	14	13.26	0.07	Rear	Ant1	Active	99.0	15	0.135	0.087	1.186	1.010	0.104	75
2 437	6	802.11b	20	1	14	13.26		Front	Ant1	Active	99.0	15	0.104		1.186	1.010		-
2 437	6	802.11b	20	1	14	13.38	0.18	Rear	Ant2	Active	99.0	15	0.0148	0.00917	1.153	1.010	0.011	-
2 437	6	802.11b	20	1	14	13.38		Front	Ant2	Active	99.0	15	0.0138		1.153	1.010		-
2 462	11	802.11g	20	6	17	16.49	0.08	Rear	MIMO	Active	93.6	15	0.117	0.073	1.130	1.068	0.009	-
2 462	11	802.11g	20	6	17	16.49		Front	MIMO	Active	93.6	15	0.097		1.130	1.068		-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram						

* Reduction condition during simultaneous conditions with 5 GHz WLAN

* Reduction condition during simultaneous conditions with mmWave and/or 5 GHz WLAN

* Since the result of the above mode was the worst case condition than the RSBD mode, it was applied to the simultaneous transmission evaluation of the WLAN RSDB mode.

NII Body-Worn SAR																	
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant. Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
5 320	64	802.11a	20	6	18	17.88	-0.14	Rear	Ant1	93.6	15	0.349	0.158	1.028	1.068	0.173	-
5 320	64	802.11a	20	6	18	17.88	0.17	Front	Ant1	93.6	15	0.196	0.085	1.028	1.068	0.093	-
5 720	144	802.11a	20	6	18	17.92	0.12	Rear	Ant1	93.6	15	0.597	0.261	1.019	1.068	0.284	76
5 720	144	802.11a	20	6	18	17.92	0.19	Front	Ant1	93.6	15	0.233	0.094	1.019	1.068	0.102	-
5 745	149	802.11a	20	6	18	17.69	-0.15	Rear	Ant1	93.6	15	0.558	0.241	1.074	1.068	0.276	-
5 745	149	802.11a	20	6	18	17.69	-0.11	Front	Ant1	93.6	15	0.239	0.100	1.074	1.068	0.115	-
5 300	60	802.11a	20	6	18	17.09	0.17	Rear	Ant2	93.6	15	0.187	0.080	1.233	1.068	0.105	-
5 300	60	802.11a	20	6	18	17.09	0.01	Front	Ant2	93.6	15	0.099	0.037	1.233	1.068	0.049	-
5 720	144	802.11a	20	6	18	17.47	0.10	Rear	Ant2	93.6	15	0.124	0.049	1.130	1.068	0.059	-
5 720	144	802.11a	20	6	18	17.47	0.13	Front	Ant2	93.6	15	0.215	0.096	1.130	1.068	0.116	-
5 745	149	802.11a	20	6	18	17.84	-0.10	Rear	Ant2	93.6	15	0.0888	0.016	1.038	1.068	0.018	-
5 745	149	802.11a	20	6	18	17.84	0.01	Front	Ant2	93.6	15	0.0526	0.014	1.038	1.068	0.016	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

NII Body-Worn SAR 1g with mmWave - RSDB																	
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant. Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
5 290	58	802.11ac	80	MCS0	11	10.32	-0.13	Rear	Ant1	86.05	15	0.133	0.060	1.169	1.162	0.082	-
5 290	58	802.11ac	80	MCS0	11	10.32	-0.17	Front	Ant1	86.05	15	0.0689	0.025	1.169	1.162	0.034	-
5 610	122	802.11ac	80	MCS0	11	10.98	0.19	Rear	Ant1	86.05	15	0.135	0.050	1.005	1.162	0.058	-
5 610	122	802.11ac	80	MCS0	11	10.98	0.01	Front	Ant1	86.05	15	0.106	0.023	1.005	1.162	0.027	-
5 775	155	802.11ac	80	MCS0	11	10.55	-0.04	Rear	Ant1	86.05	15	0.199	0.085	1.109	1.162	0.110	77
5 775	155	802.11ac	80	MCS0	11	10.55	0.10	Front	Ant1	86.05	15	0.0758	0.025	1.109	1.162	0.032	-
5 290	58	802.11ac	80	MCS0	11	9.07	0.12	Rear	Ant2	86.05	15	0.0237	0.019	1.560	1.162	0.034	-
5 290	58	802.11ac	80	MCS0	11	9.07	-0.10	Front	Ant2	86.05	15	0.027	0.00805	1.560	1.162	0.015	-
5 610	122	802.11ac	80	MCS0	11	9.86	0.10	Rear	Ant2	86.05	15	0.060	0.015	1.300	1.162	0.023	-
5 610	122	802.11ac	80	MCS0	11	9.86	0.01	Front	Ant2	86.05	15	0.0831	0.0092	1.300	1.162	0.014	-
5 775	155	802.11ac	80	MCS0	11	10.41	0.15	Rear	Ant2	86.05	15	0.0417	0.011	1.146	1.162	0.015	-
5 775	155	802.11ac	80	MCS0	11	10.41	0.01	Front	Ant2	86.05	15	0.0396	0.012	1.146	1.162	0.016	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

* Reduction condition during simultaneous conditions with 2.4 GHz WLAN

* Reduction condition during simultaneous conditions with mmWave and/or 2.4 GHz WLAN

DSS Body-Worn SAR												
Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.											
2 480	78	Bluetooth DH5	14.5	13.91	0.12	Rear	15	0.039	1.146	1.300	0.058	78
2 480	78	Bluetooth DH5	14.5	13.91	-0.10	Front	15	0.024	1.146	1.300	0.036	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram				

13.3 Hotspot SAR Measurement Results (DSI = 3)

CDMA BC0 (\$22H) Hotspot SAR- Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
836.52	384	CDMA BC0	EVDO Rev.0	25.0	24.10	-0.02	Rear	1:1	111	10	0.641	1.230	0.788	79
836.52	384	CDMA BC0	EVDO Rev.0	25.0	24.10	-0.18	Front	1:1	111	10	0.448	1.230	0.551	-
836.52	384	CDMA BC0	EVDO Rev.0	25.0	24.10	0.19	Left	1:1	111	10	0.062	1.230	0.076	-
836.52	384	CDMA BC0	EVDO Rev.0	25.0	24.10	-0.14	Right	1:1	111	10	0.222	1.230	0.273	-
836.52	384	CDMA BC0	EVDO Rev.0	25.0	24.10	0.06	Bottom	1:1	111	10	0.293	1.230	0.360	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

PCS CDMA Hotspot SAR- Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
1 908.75	1175	PCS CDMA	EVDO Rev.0	20.5	20.10	-0.17	Rear	1:1	115	10	0.377	1.096	0.413	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	20.5	20.10	-0.02	Front	1:1	115	10	0.383	1.096	0.420	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	20.5	20.10	0.06	Left	1:1	115	10	0.102	1.096	0.112	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	20.5	20.10	0.14	Right	1:1	115	10	0.040	1.096	0.044	-
1 851.25	25	PCS CDMA	EVDO Rev.0	20.5	19.46	0.18	Bottom	1:1	115	10	0.755	1.271	0.960	-
1 880.0	600	PCS CDMA	EVDO Rev.0	20.5	19.87	0.12	Bottom	1:1	115	10	0.818	1.156	0.946	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	20.5	20.10	0.18	Bottom	1:1	115	10	0.951	1.096	1.042	80
1 908.75	1175	PCS CDMA	EVDO Rev.0	20.5	20.10	0.11	Bottom	1:1	115	10	0.871	1.096	0.955	*
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

Note: * Data entry indicate Variability measurement.

CDMA BC10 (\$90S) Hotspot SAR- Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
820	560	CDMA BC10	EVDO Rev.0	25.0	23.95	0.01	Rear	1:1	111	10	0.577	1.274	0.735	81
820	560	CDMA BC10	EVDO Rev.0	25.0	23.95	0.01	Front	1:1	111	10	0.419	1.274	0.534	-
820	560	CDMA BC10	EVDO Rev.0	25.0	23.95	0.06	Left	1:1	111	10	0.084	1.274	0.107	-
820	560	CDMA BC10	EVDO Rev.0	25.0	23.95	0.03	Right	1:1	111	10	0.259	1.274	0.330	-
820	560	CDMA BC10	EVDO Rev.0	25.0	23.95	0.03	Bottom	1:1	111	10	0.273	1.274	0.348	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

GSM 850 Hotspot SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	190	GPRS 2Tx	32.0	31.96	-0.03	Rear	1:4.15	10	1	0.693	1.009	0.699	82
836.6	190	GPRS 2Tx	32.0	31.96	-0.04	Front	1:4.15	10	1	0.544	1.009	0.549	-
836.6	190	GPRS 2Tx	32.0	31.96	0.15	Left	1:4.15	10	1	0.124	1.009	0.125	-
836.6	190	GPRS 2Tx	32.0	31.96	0.04	Right	1:4.15	10	1	0.346	1.009	0.349	-
836.6	190	GPRS 2Tx	32.0	31.96	0.19	Bottom	1:4.15	10	1	0.405	1.009	0.409	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram							

GSM 1900 Hotspot SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
1 880	661	GPRS 2Tx	25.5	24.02	0.15	Rear	1:4.15	10	115	0.255	1.406	0.359	-
1 880	661	GPRS 2Tx	25.5	24.02	-0.10	Front	1:4.15	10	115	0.235	1.406	0.330	-
1 880	661	GPRS 2Tx	25.5	24.02	-0.14	Left	1:4.15	10	115	0.059	1.406	0.083	-
1 880	661	GPRS 2Tx	25.5	24.02	-0.03	Right	1:4.15	10	115	0.041	1.406	0.058	-
1 880	661	GPRS 2Tx	25.5	24.02	-0.02	Bottom	1:4.15	10	115	0.499	1.406	0.702	83
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram							

UMTS 850 Hotspot SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
836.6	4183	RMC	25.0	24.16	0.03	Rear	1:1	02	1	0.609	1.213	0.739	84
836.6	4183	RMC	25.0	24.16	-0.01	Front	1:1	02	1	0.433	1.213	0.525	-
836.6	4183	RMC	25.0	24.16	0.12	Left	1:1	02	1	0.124	1.213	0.150	-
836.6	4183	RMC	25.0	24.16	-0.11	Right	1:1	02	1	0.208	1.213	0.252	-
836.6	4183	RMC	25.0	24.16	0.08	Bottom	1:1	02	1	0.294	1.213	0.357	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram							

UMTS 1700 Hotspot SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
1 732.4	1412	RMC	19.5	18.82	-0.11	Rear	1:1	01	51	0.303	1.169	0.354	-
1 732.4	1412	RMC	19.5	18.82	-0.11	Front	1:1	01	51	0.307	1.169	0.359	-
1 732.4	1412	RMC	19.5	18.82	0.16	Left	1:1	01	51	0.044	1.169	0.051	-
1 732.4	1412	RMC	19.5	18.82	0.15	Right	1:1	01	51	0.077	1.169	0.090	-
1 732.4	1412	RMC	19.5	18.82	0.12	Bottom	1:1	01	51	0.631	1.169	0.738	85
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram						

UMTS 1900 Hotspot SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
1 880	9400	RMC	19.5	19.24	-0.12	Rear	1:1	14	113	0.300	1.062	0.319	-
1 880	9400	RMC	19.5	19.24	-0.06	Front	1:1	14	113	0.294	1.062	0.312	-
1 880	9400	RMC	19.5	19.24	0.07	Left	1:1	14	113	0.061	1.062	0.065	-
1 880	9400	RMC	19.5	19.24	-0.14	Right	1:1	14	113	0.049	1.062	0.052	-
1 880	9400	RMC	19.5	19.24	-0.02	Bottom	1:1	14	113	0.732	1.062	0.777	86
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram						

LTE Band 7 Hotspot SAR- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 560	21350	QPSK	20	20.5	19.57	0.12	Rear	0	1	0	1:1		10	0.290	1.239	0.359	-
2 560	21350	QPSK	20	20.5	19.70	-0.16	Rear	0	50	25	1:1		10	0.314	1.202	0.377	-
2 560	21350	QPSK	20	20.5	19.57	0.11	Front	0	1	0	1:1		10	0.343	1.239	0.425	-
2 560	21350	QPSK	20	20.5	19.70	0.13	Front	0	50	25	1:1		10	0.352	1.202	0.423	-
2 560	21350	QPSK	20	20.5	19.57	0.04	Left	0	1	0	1:1		10	0.106	1.239	0.131	-
2 560	21350	QPSK	20	20.5	19.70	-0.15	Left	0	50	25	1:1		10	0.110	1.202	0.132	-
2 510	20850	QPSK	20	20.5	19.35	-0.10	Bottom	0	1	0	1:1		10	0.510	1.303	0.665	-
2 535	21100	QPSK	20	20.5	19.46	0.12	Bottom	0	1	0	1:1		10	0.633	1.271	0.805	-
2 560	21350	QPSK	20	20.5	19.57	-0.15	Bottom	0	1	0	1:1		10	0.727	1.239	0.901	-
2 510	20850	QPSK	20	20.5	19.45	-0.11	Bottom	0	50	25	1:1		10	0.566	1.274	0.721	-
2 535	21100	QPSK	20	20.5	19.56	0.15	Bottom	0	50	25	1:1		10	0.723	1.242	0.898	-
2 560	21350	QPSK	20	20.5	19.70	0.04	Bottom	0	50	25	1:1		10	0.734	1.202	0.882	-
2 560	21350	QPSK	20	20.5	19.58	-0.18	Bottom	0	100	0	1:1		10	0.764	1.236	0.944	87
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE Band 12 Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
707.5	23095	QPSK	10	25.5	23.99	-0.03	Rear	0	1	0	1:1	4	10	0.323	1.416	0.457	88
707.5	23095	QPSK	10	24.5	22.96	-0.01	Rear	1	25	12	1:1	4	10	0.290	1.426	0.414	-
707.5	23095	QPSK	10	25.5	23.99	-0.15	Front	0	1	0	1:1	4	10	0.236	1.416	0.334	-
707.5	23095	QPSK	10	24.5	22.96	0.01	Front	1	25	12	1:1	4	10	0.206	1.426	0.294	-
707.5	23095	QPSK	10	25.5	23.99	-0.01	Left	0	1	0	1:1	4	10	0.074	1.416	0.105	-
707.5	23095	QPSK	10	24.5	22.96	0.01	Left	1	25	12	1:1	4	10	0.067	1.426	0.096	-
707.5	23095	QPSK	10	25.5	23.99	-0.01	Right	0	1	0	1:1	4	10	0.206	1.416	0.292	-
707.5	23095	QPSK	10	24.5	22.96	-0.06	Right	1	25	12	1:1	4	10	0.176	1.426	0.251	-
707.5	23095	QPSK	10	25.5	23.99	0.16	Bottom	0	1	0	1:1	4	10	0.259	1.416	0.367	-
707.5	23095	QPSK	10	24.5	22.96	0.14	Bottom	1	25	12	1:1	4	10	0.221	1.426	0.315	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE Band 13 Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
782	23230	QPSK	10	25.5	23.89	-0.06	Rear	0	1	24	1:1	1	10	0.394	1.449	0.571	89
782	23230	QPSK	10	24.5	22.98	-0.02	Rear	1	25	0	1:1	1	10	0.326	1.419	0.463	-
782	23230	QPSK	10	25.5	23.89	-0.04	Front	0	1	24	1:1	1	10	0.270	1.449	0.391	-
782	23230	QPSK	10	24.5	22.98	-0.01	Front	1	25	0	1:1	1	10	0.219	1.419	0.311	-
782	23230	QPSK	10	25.5	23.89	-0.03	Left	0	1	24	1:1	1	10	0.114	1.449	0.165	-
782	23230	QPSK	10	24.5	22.98	-0.04	Left	1	25	0	1:1	1	10	0.081	1.419	0.115	-
782	23230	QPSK	10	25.5	23.89	0.11	Right	0	1	24	1:1	1	10	0.273	1.449	0.396	-
782	23230	QPSK	10	24.5	22.98	-0.03	Right	1	25	0	1:1	1	10	0.218	1.419	0.309	-
782	23230	QPSK	10	25.5	23.89	0.18	Bottom	0	1	24	1:1	1	10	0.266	1.449	0.385	-
782	23230	QPSK	10	24.5	22.98	0.09	Bottom	1	25	0	1:1	1	10	0.210	1.419	0.298	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

LTE Band 14 Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
793	23330	QPSK	10	25.5	24.70	-0.01	Rear	0	1	0	1:1	4	10	0.485	1.202	0.583	90
793	23330	QPSK	10	24.5	23.42	-0.02	Rear	1	25	12	1:1	4	10	0.399	1.282	0.512	-
793	23330	QPSK	10	25.5	24.70	-0.08	Front	0	1	0	1:1	4	10	0.329	1.202	0.395	-
793	23330	QPSK	10	24.5	23.42	0.01	Front	1	25	12	1:1	4	10	0.270	1.282	0.346	-
793	23330	QPSK	10	25.5	24.70	-0.07	Left	0	1	0	1:1	4	10	0.150	1.202	0.180	-
793	23330	QPSK	10	24.5	23.42	0.03	Left	1	25	12	1:1	4	10	0.150	1.282	0.192	-
793	23330	QPSK	10	25.5	24.70	-0.06	Right	0	1	0	1:1	4	10	0.330	1.202	0.397	-
793	23330	QPSK	10	24.5	23.42	0.01	Right	1	25	12	1:1	4	10	0.277	1.282	0.355	-
793	23330	QPSK	10	25.5	24.70	0.14	Bottom	0	1	0	1:1	4	10	0.333	1.202	0.400	-
793	23330	QPSK	10	24.5	23.42	0.13	Bottom	1	25	12	1:1	4	10	0.272	1.282	0.349	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

LTE Band 25 Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																
1 882.5	26365	QPSK	20	19.5	18.41	-0.19	Rear	0	1	0	1:1	115	10	0.286	1.285	0.368	-
1 882.5	26365	QPSK	20	19.5	18.55	0.00	Rear	0	50	0	1:1	115	10	0.291	1.245	0.362	-
1 882.5	26365	QPSK	20	19.5	18.41	0.03	Front	0	1	0	1:1	115	10	0.238	1.285	0.306	-
1 882.5	26365	QPSK	20	19.5	18.55	-0.01	Front	0	50	0	1:1	115	10	0.239	1.245	0.298	-
1 882.5	26365	QPSK	20	19.5	18.41	-0.12	Left	0	1	0	1:1	115	10	0.098	1.285	0.126	-
1 882.5	26365	QPSK	20	19.5	18.55	-0.01	Left	0	50	0	1:1	115	10	0.104	1.245	0.129	-
1 882.5	26365	QPSK	20	19.5	18.41	-0.14	Right	0	1	0	1:1	115	10	0.070	1.285	0.090	-
1 882.5	26365	QPSK	20	19.5	18.55	0.06	Right	0	50	0	1:1	115	10	0.077	1.245	0.096	-
1 860.0	26140	QPSK	20	19.5	18.21	0.01	Bottom	0	1	99	1:1	115	10	0.665	1.346	0.895	-
1 882.5	26365	QPSK	20	19.5	18.41	-0.19	Bottom	0	1	0	1:1	115	10	0.682	1.285	0.876	-
1 905.0	26590	QPSK	20	19.5	18.04	-0.01	Bottom	0	1	49	1:1	115	10	0.728	1.400	1.019	91
1 860.0	26140	QPSK	20	19.5	18.30	0.03	Bottom	0	50	49	1:1	115	10	0.674	1.318	0.888	-
1 882.5	26365	QPSK	20	19.5	18.55	-0.03	Bottom	0	50	25	1:1	115	10	0.733	1.245	0.913	-
1 905.0	26590	QPSK	20	19.5	18.19	-0.01	Bottom	0	50	0	1:1	115	10	0.750	1.352	1.014	92
1 882.5	26365	QPSK	20	19.5	18.45	0.01	Bottom	0	100	0	1:1	115	10	0.694	1.274	0.884	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE Band 26 Hotspot SAR- Ant. A

Component CA	Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	Mhz	Ch.																
	831.5	26865	QPSK	15	25.5	24.02	-0.05	Rear	0	1	0	1:1	4	10	0.558	1.406	0.785	-
	831.5	26865	QPSK	15	24.5	23.16	0.03	Rear	1	36	39	1:1	4	10	0.464	1.361	0.632	-
	831.5	26865	QPSK	15	25.5	24.02	-0.08	Front	0	1	0	1:1	4	10	0.363	1.406	0.510	-
	831.5	26865	QPSK	15	24.5	23.16	-0.05	Front	1	36	39	1:1	4	10	0.330	1.361	0.449	-
	831.5	26865	QPSK	15	25.5	24.02	-0.07	Left	0	1	0	1:1	4	10	0.093	1.406	0.131	-
	831.5	26865	QPSK	15	24.5	23.16	-0.09	Left	1	36	39	1:1	4	10	0.069	1.361	0.094	-
	831.5	26865	QPSK	15	25.5	24.02	-0.03	Right	0	1	0	1:1	4	10	0.262	1.406	0.368	-
	831.5	26865	QPSK	15	24.5	23.16	-0.02	Right	1	36	39	1:1	4	10	0.183	1.361	0.249	-
	831.5	26865	QPSK	15	25.5	24.02	0.12	Bottom	0	1	0	1:1	4	10	0.369	1.406	0.519	-
	831.5	26865	QPSK	15	24.5	23.16	0.17	Bottom	1	36	39	1:1	4	10	0.337	1.361	0.459	-

LTE Band 5 Up-link Carrier Aggregation (5B)

PCC	836.5	20525	LTE 5 QPSK	10	25.5	24.50	-0.03	Rear	0	1	49	1:1	4	15	0.653	1.259	0.822	93
SCC	843.7	20597		5						1	0							
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

LTE Band 30 Hotspot SAR- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 310	27710	QPSK	10	19.0	17.97	-0.10	Rear	0	1	24	1:1		10	0.369	1.268	0.468	-
2 310	27710	QPSK	10	19.0	17.94	0.13	Rear	0	25	0	1:1		10	0.376	1.276	0.480	-
2 310	27710	QPSK	10	19.0	17.97	-0.10	Front	0	1	24	1:1		10	0.432	1.268	0.548	-
2 310	27710	QPSK	10	19.0	17.94	0.01	Front	0	25	0	1:1		10	0.436	1.276	0.556	-
2 310	27710	QPSK	10	19.0	17.97	0.16	Left	0	1	24	1:1		10	0.055	1.268	0.070	-
2 310	27710	QPSK	10	19.0	17.94	-0.01	Left	0	25	0	1:1		10	0.054	1.276	0.069	-
2 310	27710	QPSK	10	19.0	17.97	0.07	Bottom	0	1	24	1:1		10	0.805	1.268	1.021	-
2 310	27710	QPSK	10	19.0	17.94	-0.01	Bottom	0	25	0	1:1		10	0.793	1.276	1.012	-
2 310	27710	QPSK	10	19.0	17.83	-0.02	Bottom	0	50	0	1:1		10	0.821	1.309	1.075	94
2 310	27710	QPSK	10	19.0	17.83	0.08	Bottom	0	50	0	1:1		10	0.798	1.309	1.045	*

ANSI/ IEEE C95.1 - 2005– Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

Note: * Data entry indicate Variability measurement.

LTE Band 40 Hotspot SAR_ Lower frequency range- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 310	38750	QPSK	10	14.0	13.43	0.17	Rear	0	1	24	1:1.58		10	0.062	1.140	0.071	-
2 310	38750	QPSK	10	14.0	13.59	0.11	Rear	0	25	12	1:1.58		10	0.077	1.099	0.085	-
2 310	38750	QPSK	10	14.0	13.43	-0.10	Front	0	1	24	1:1.58		10	0.076	1.140	0.087	-
2 310	38750	QPSK	10	14.0	13.59	-0.16	Front	0	25	12	1:1.58		10	0.054	1.099	0.059	-
2 310	38750	QPSK	10	14.0	13.43	-0.19	Left	0	1	24	1:1.58		10	0.011	1.140	0.013	-
2 310	38750	QPSK	10	14.0	13.59	0.13	Left	0	25	12	1:1.58		10	0.00419	1.099	0.005	-
2 310	38750	QPSK	10	14.0	13.43	-0.12	Bottom	0	1	24	1:1.58		10	0.135	1.140	0.154	-
2 310	38750	QPSK	10	14.0	13.59	-0.10	Bottom	0	25	12	1:1.58		10	0.147	1.099	0.162	95

ANSI/ IEEE C95.1 - 2005– Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

LTE Band 40 Hotspot SAR_ Upper frequency range- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)							(mm)	(W/kg)		(W/kg)	
2 355	39200	QPSK	10	14.0	13.43	0.19	Rear	0	1	24	1:1.58		10	0.062	1.140	0.071	-
2 355	39200	QPSK	10	14.0	13.59	-0.03	Rear	0	25	12	1:1.58		10	0.067	1.099	0.074	-
2 355	39200	QPSK	10	14.0	13.43	0.11	Front	0	1	24	1:1.58		10	0.035	1.140	0.040	-
2 355	39200	QPSK	10	14.0	13.59	0.01	Front	0	25	12	1:1.58		10	0.033	1.099	0.036	-
2 355	39200	QPSK	10	14.0	13.43	-0.11	Left	0	1	24	1:1.58		10	0.013	1.140	0.015	-
2 355	39200	QPSK	10	14.0	13.59	0.16	Left	0	25	12	1:1.58		10	0.011	1.099	0.012	-
2 355	39200	QPSK	10	14.0	13.43	-0.05	Bottom	0	1	24	1:1.58		10	0.183	1.140	0.209	96
2 355	39200	QPSK	10	14.0	13.59	-0.17	Bottom	0	25	12	1:1.58		10	0.186	1.099	0.204	97
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE TDD Band 41 Hotspot SAR- Ant. B

Component CA	Frequency		Mode	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Dista nce	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
Power class 3																		
	2 593	40620	QPSK	20	22.5	21.72	0.10	Rear	0	1	99	1:1.58		10	0.193	1.197	0.231	-
	2 593	40620	QPSK	20	22.5	21.71	0.17	Rear	0	50	49	1:1.58		10	0.193	1.199	0.231	-
	2 593	40620	QPSK	20	22.5	21.72	-0.00	Front	0	1	99	1:1.58		10	0.246	1.197	0.294	-
	2 593	40620	QPSK	20	22.5	21.71	0.19	Front	0	50	49	1:1.58		10	0.244	1.199	0.293	-
	2 593	40620	QPSK	20	22.5	21.72	0.18	Left	0	1	99	1:1.58		10	0.063	1.197	0.075	-
	2 593	40620	QPSK	20	22.5	21.71	0.19	Left	0	50	49	1:1.58		10	0.063	1.199	0.076	-
	2 593	40620	QPSK	20	22.5	21.72	0.17	Bottom	0	1	99	1:1.58		10	0.480	1.197	0.575	98
	2 593	40620	QPSK	20	22.5	21.71	0.18	Bottom	0	50	49	1:1.58		10	0.479	1.199	0.574	-
Up-link Carrier Aggregation Power class 3 (41C)																		
PCC	2 593	40620	QPSK	20	22.5	21.71	0.05	Bottom	0	1	99	1:1.58		10	0.359	1.199	0.430	-
SCC	2 612.8	40818		20						1	0							
Up-link Carrier Aggregation Power class 2 (HPUE) (41C)																		
PCC	2 593	40620	QPSK	20	22.5	22.09	0.01	Bottom	0	1	99	1:2.31		10	0.384	1.099	0.422	-
SCC	2 612.8	40818		20						1	0							
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

Note : When Power reduction is applied to LTE B41 PC 2(HPUE), The power level of LTE B41 PC became same as the reduction power of LTE B41 PC3.

LTE TDD Band 48 Hotspot SAR- Ant. H

Component CA	Frequency		Mode	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Dista nce	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.																
	3603.3	55773	QPSK	20	21	19.88	0.15	Rear	0	1	0	1:1.58		10	0.107	1.294	0.138	-
	3603.3	55773	QPSK	20	21	20.03	0.18	Rear	1	50	49	1:1.58		10	0.129	1.250	0.161	-
	3603.3	55773	QPSK	20	21	19.88	0.11	Front	0	1	0	1:1.58		10	0.092	1.294	0.119	-
	3603.3	55773	QPSK	20	21	20.03	0.04	Front	1	50	49	1:1.58		10	0.100	1.250	0.125	-
	3603.3	55773	QPSK	20	21	19.88	-0.19	Left	0	1	0	1:1.58		10	0.208	1.294	0.269	-
	3603.3	55773	QPSK	20	21	20.03	-0.14	Left	1	50	49	1:1.58		10	0.227	1.250	0.284	99
	3603.3	55773	QPSK	20	21	19.88	-0.19	Top	0	1	0	1:1.58		10	0.171	1.294	0.221	-
	3603.3	55773	QPSK	20	21	20.03	0.05	Top	1	50	49	1:1.58		10	0.186	1.250	0.233	-

Up-link Carrier Aggregation (48C)

PCC	3603.3	55773	QPSK	20	21	20.01	-0.13	Left	0	50	49	1:1.58		10	0.190	1.256	0.239	-
SCC	3623.1	55971		20						50	0							

ANSI/ IEEE C95.1 - 2005- Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

LTE Band 66 Hotspot SAR- Ant. A

Component CA	Frequency		Mode	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Dista nce	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.																
	1 720	132072	QPSK	20	20.0	19.81	-0.07	Rear	0	1	99	1:1	51	10	0.404	1.045	0.422	-
	1 745	132322	QPSK	20	20.0	19.45	0.14	Rear	0	50	49	1:1	51	10	0.327	1.135	0.371	-
	1 720	132072	QPSK	20	20.0	19.81	0.01	Front	0	1	99	1:1	51	10	0.387	1.045	0.404	-
	1 745	132322	QPSK	20	20.0	19.45	0.01	Front	0	50	49	1:1	51	10	0.241	1.135	0.274	-
	1 720	132072	QPSK	20	20.0	19.81	-0.03	Left	0	1	99	1:1	51	10	0.067	1.045	0.070	-
	1 745	132322	QPSK	20	20.0	19.45	0.10	Left	0	50	49	1:1	51	10	0.071	1.135	0.081	-
	1 720	132072	QPSK	20	20.0	19.81	0.05	Right	0	1	99	1:1	51	10	0.082	1.045	0.086	-
	1 745	132322	QPSK	20	20.0	19.45	0.13	Right	0	50	49	1:1	51	10	0.048	1.135	0.054	-
	1 720	132072	QPSK	20	20.0	19.81	0.19	Bottom	0	1	99	1:1	51	10	0.695	1.045	0.726	-
	1 745	132322	QPSK	20	20.0	19.00	-0.19	Bottom	0	1	49	1:1	51	10	0.664	1.259	0.836	-
	1 770	132572	QPSK	20	20.0	18.92	0.15	Bottom	0	1	0	1:1	51	10	0.787	1.282	1.009	100
	1 720	132072	QPSK	20	20.0	19.03	0.14	Bottom	0	50	25	1:1	51	10	0.738	1.250	0.923	-
	1 745	132322	QPSK	20	20.0	19.45	0.07	Bottom	0	50	49	1:1	51	10	0.798	1.135	0.906	101
	1 770	132572	QPSK	20	20.0	19.01	0.12	Bottom	0	50	25	1:1	51	10	0.797	1.256	1.001	-
	1 745	132322	QPSK	20	20.0	19.04	-0.01	Bottom	0	100	0	1:1	51	10	0.723	1.247	0.902	-

Up-link Carrier Aggregation (66B)

PCC	1715	132022	QPSK	10	20.0	19.69	0.08	Bottom	0	1	49	1:1	51	10	0.672	1.074	0.722	-
SCC	1724.9	132121		10						1	0							

Up-link Carrier Aggregation (66C)

PCC	1720	132072	QPSK	20	20.0	19.51	0.03	Bottom	0	1	99	1:1	51	10	0.668	1.119	0.747	-
SCC	1739.8	132270		20						1	0							

ANSI/ IEEE C95.1 - 2005- Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram



LTE Band 71 Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
680.5	133297	QPSK	20	25.5	24.35	-0.08	Rear	0	1	0	1:1	4	10	0.293	1.303	0.382	102
680.5	133297	QPSK	20	24.5	23.43	-0.11	Rear	1	50	0	1:1	4	10	0.238	1.279	0.304	-
680.5	133297	QPSK	20	25.5	24.35	0.03	Front	0	1	0	1:1	4	10	0.174	1.303	0.227	-
680.5	133297	QPSK	20	24.5	23.43	-0.01	Front	1	50	0	1:1	4	10	0.140	1.279	0.179	-
680.5	133297	QPSK	20	25.5	24.35	-0.01	Left	0	1	0	1:1	4	10	0.078	1.303	0.102	-
680.5	133297	QPSK	20	24.5	23.43	-0.01	Left	1	50	0	1:1	4	10	0.075	1.279	0.096	-
680.5	133297	QPSK	20	25.5	24.35	-0.04	Right	0	1	0	1:1	4	10	0.209	1.303	0.272	-
680.5	133297	QPSK	20	24.5	23.43	-0.04	Right	1	50	0	1:1	4	10	0.179	1.279	0.229	-
680.5	133297	QPSK	20	25.5	24.35	0.11	Bottom	0	1	0	1:1	4	10	0.182	1.303	0.237	-
680.5	133297	QPSK	20	24.5	23.43	0.15	Bottom	1	50	0	1:1	4	10	0.146	1.279	0.187	-

ANSI/ IEEE C95.1 - 2005– Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

NR Band n5 (Cell) Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	20	25.5	23.80	0.01	Rear	0	1	53	1:1	4	10	0.330	1.479	0.488	103
836.5	167300	DFT-s OFDM QPSK	20	25.5	24.07	-0.07	Rear	0	50	28	1:1	4	10	0.209	1.390	0.290	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	23.80	0.10	Front	0	1	53	1:1	4	10	0.263	1.479	0.388	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	24.07	-0.05	Front	0	50	28	1:1	4	10	0.205	1.390	0.285	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	23.80	-0.12	Left	0	1	53	1:1	4	10	0.044	1.479	0.065	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	24.07	0.17	Left	0	50	28	1:1	4	10	0.039	1.390	0.054	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	23.80	0.08	Right	0	1	53	1:1	4	10	0.178	1.479	0.263	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	24.07	-0.08	Right	0	50	28	1:1	4	10	0.103	1.390	0.143	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	23.80	0.07	Bottom	0	1	53	1:1	4	10	0.208	1.479	0.307	-
836.5	167300	DFT-s OFDM QPSK	20	25.5	24.07	-0.02	Bottom	0	50	28	1:1	4	10	0.202	1.390	0.280	-
836.5	167300	CP QPSK	20	24.0	22.25	-0.07	Rear	1.5	1	1	1:1	4	10	0.194	1.496	0.290	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

NR Band n12 Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.92	0.03	Rear	0	1	1	1:1	1	10	0.391	1.439	0.563	104
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.98	-0.17	Rear	0	36	22	1:1	1	10	0.265	1.419	0.376	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.92	-0.12	Front	0	1	1	1:1	1	10	0.299	1.439	0.430	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.98	-0.11	Front	0	36	22	1:1	1	10	0.343	1.419	0.487	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.92	-0.02	Left	0	1	1	1:1	1	10	0.102	1.439	0.147	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.98	0.05	Left	0	36	22	1:1	1	10	0.176	1.419	0.250	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.92	-0.08	Right	0	1	1	1:1	1	10	0.180	1.439	0.260	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.98	0.04	Right	0	36	22	1:1	1	10	0.217	1.419	0.307	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.92	0.01	Bottom	0	1	1	1:1	1	10	0.227	1.439	0.326	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	23.98	-0.04	Bottom	0	36	22	1:1	1	10	0.313	1.419	0.444	-
707.5	141500	CP QPSK	15	24.0	22.53	-0.17	Rear	1.5	1	1	1:1	1	10	0.333	1.403	0.467	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

NR Band n25 Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.58	0.13	Rear	0	1	108	1:1	115	10	0.299	1.236	0.370	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.65	0.11	Rear	0	108	54	1:1	115	10	0.264	1.216	0.321	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.58	0.03	Front	0	1	108	1:1	115	10	0.250	1.236	0.309	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.65	-0.13	Front	0	108	54	1:1	115	10	0.242	1.216	0.294	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.58	0.10	Left	0	1	108	1:1	115	10	0.042	1.236	0.052	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.65	-0.11	Left	0	108	54	1:1	115	10	0.042	1.216	0.051	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.58	0.10	Right	0	1	108	1:1	115	10	0.034	1.236	0.042	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.65	0.06	Right	0	108	54	1:1	115	10	0.036	1.216	0.044	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.58	0.09	Bottom	0	1	108	1:1	115	10	0.664	1.236	0.821	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.65	0.03	Bottom	0	108	54	1:1	115	10	0.543	1.216	0.660	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.56	0.01	Bottom	0	216	0	1:1	115	10	0.669	1.242	0.831	-
1 882.5	376500	CP QPSK	40	19.5	18.52	0.03	Bottom	0	1	1	1:1	115	10	0.738	1.253	0.925	105
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

NR Band n30 Hotspot SAR- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.17	0.13	Rear	0	1	26	1:1		10	0.360	1.079	0.388	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.29	0.14	Rear	0	25	27	1:1		10	0.375	1.050	0.394	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.17	0.17	Front	0	1	26	1:1		10	0.350	1.079	0.378	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.29	0.04	Front	0	25	27	1:1		10	0.337	1.050	0.354	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.17	0.13	Left	0	1	26	1:1		10	0.069	1.079	0.074	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.29	0.16	Left	0	25	27	1:1		10	0.075	1.050	0.079	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.17	0.16	Bottom	0	1	26	1:1		10	0.922	1.079	0.995	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.29	0.03	Bottom	0	25	27	1:1		10	0.942	1.050	0.989	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.38	0.03	Bottom	0	50	0	1:1		10	0.937	1.028	0.963	-
2 310	462000	CP QPSK	10	18.5	18.06	0.08	Bottom	0	1	1	1:1		10	0.983	1.107	1.088	106
2 310	462000	CP QPSK	10	18.5	18.06	-0.02	Bottom	0	1	1	1:1		10	0.940	1.107	1.041	*
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

Note: * Data entry indicate Variability measurement.

NR Band n41 Hotspot SAR– Power class 3 - Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.74	-0.15	Rear	0	1	137	1:1		10	0.382	1.062	0.406	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.59	0.12	Rear	0	135	69	1:1		10	0.377	1.099	0.414	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.74	0.18	Front	0	1	137	1:1		10	0.379	1.062	0.402	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.59	-0.12	Front	0	135	69	1:1		10	0.368	1.099	0.404	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.74	-0.16	Left	0	1	137	1:1		10	0.207	1.062	0.220	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.59	-0.11	Left	0	135	69	1:1		10	0.213	1.099	0.234	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.74	-0.10	Bottom	0	1	137	1:1		10	0.769	1.062	0.817	107
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.59	-0.08	Bottom	0	135	69	1:1		10	0.749	1.099	0.823	108
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.54	-0.11	Bottom	0	270	0	1:1		10	0.553	1.112	0.615	-
2592.99	518598	CP QPSK	100	23.5	21.45	0.09	Bottom	0.5	1	1	1:1		10	0.378	1.603	0.606	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

NR Band n41 Hotspot SAR– Power class 2 - Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.19	-0.18	Rear	0	1	137	1:1		10	0.267	1.205	0.322	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.23	0.04	Rear	0	135	69	1:1		10	0.256	1.194	0.306	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.19	0.02	Front	0	1	137	1:1		10	0.274	1.205	0.330	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.23	0.16	Front	0	135	69	1:1		10	0.270	1.194	0.322	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.19	-0.14	Left	0	1	137	1:1		10	0.166	1.205	0.200	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.23	-0.10	Left	0	135	69	1:1		10	0.158	1.194	0.189	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.19	-0.04	Bottom	0	1	137	1:1		10	0.610	1.205	0.735	109
2592.99	518598	DFT-s OFDM QPSK	100	24.0	23.23	-0.11	Bottom	0	135	69	1:1		10	0.555	1.194	0.663	-
2592.99	518598	DFT-s OFDM QPSK	100	24.0	22.90	-0.11	Bottom	0	270	0	1:1		10	0.556	1.288	0.716	-
2592.99	518598	CP QPSK	100	24.0	22.96	0.05	Bottom	0	1	1	1:1		10	0.385	1.271	0.489	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									



NR Band n66 Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.31	0.17	Rear	0	1	214	1:1	51	10	0.538	1.315	0.707	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.54	-0.03	Rear	0	108	54	1:1	51	10	0.523	1.247	0.652	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.31	0.18	Front	0	1	214	1:1	51	10	0.480	1.315	0.631	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.54	0.10	Front	0	108	54	1:1	51	10	0.446	1.247	0.556	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.31	-0.10	Left	0	1	214	1:1	51	10	0.061	1.315	0.080	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.54	-0.14	Left	0	108	54	1:1	51	10	0.060	1.247	0.075	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.31	-0.01	Right	0	1	214	1:1	51	10	0.085	1.315	0.112	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.54	-0.14	Right	0	108	54	1:1	51	10	0.076	1.247	0.095	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.31	0.02	Bottom	0	1	214	1:1	51	10	0.778	1.315	1.023	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.54	0.02	Bottom	0	108	54	1:1	51	10	0.827	1.247	1.031	110
1 745	349000	CP QPSK	40	20.5	19.34	-0.17	Bottom	0	1	1	1:1	51	10	0.678	1.306	0.885	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.54	0.09	Bottom	0	108	54	1:1	51	10	0.783	1.247	0.976	*
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

Note: * Data entry indicate Variability measurement.

NR Band n71 Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.35	0.02	Rear	0	1	1	1:1	1	10	0.311	1.303	0.405	111
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.33	-0.05	Rear	0	50	28	1:1	1	10	0.305	1.309	0.400	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.35	0.04	Front	0	1	1	1:1	1	10	0.232	1.303	0.303	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.33	-0.14	Front	0	50	28	1:1	1	10	0.225	1.309	0.295	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.35	-0.09	Left	0	1	1	1:1	1	10	0.158	1.303	0.205	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.33	0.10	Left	0	50	28	1:1	1	10	0.152	1.309	0.199	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.35	0.13	Right	0	1	1	1:1	1	10	0.212	1.303	0.277	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.33	-0.03	Right	0	50	28	1:1	1	10	0.210	1.309	0.274	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.35	0.06	Bottom	0	1	1	1:1	1	10	0.189	1.303	0.246	-
680.5	136100	DFT-s OFDM QPSK	20	25.5	24.33	0.14	Bottom	0	50	28	1:1	1	10	0.182	1.309	0.238	-
680.5	136100	CP QPSK	20	24.0	23.02	-0.04	Rear	1.5	1	1	1:1	1	10	0.152	1.253	0.190	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

NR Band n77 Hotspot SAR - Power Class 3 - Ant. H

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
3930	662000	DFT-s OFDM QPSK	100	25.0	24.02	0.15	Rear	0	1	137	1:1		10	0.197	1.253	0.247	-
3930	662000	DFT-s OFDM QPSK	100	25.0	24.04	-0.17	Rear	0	135	69	1:1		10	0.145	1.247	0.181	-
3930	662000	DFT-s OFDM QPSK	100	25.0	24.02	-0.14	Front	0	1	137	1:1		10	0.225	1.253	0.282	-
3930	662000	DFT-s OFDM QPSK	100	25.0	24.04	-0.19	Front	0	135	69	1:1		10	0.204	1.247	0.254	-
3930	662000	DFT-s OFDM QPSK	100	25.0	24.02	0.12	Left	0	1	137	1:1		10	0.171	1.253	0.214	-
3930	662000	DFT-s OFDM QPSK	100	25.0	24.04	0.15	Left	0	135	69	1:1		10	0.278	1.247	0.347	112
3930	662000	DFT-s OFDM QPSK	100	25.0	24.02	-0.19	Top	0	1	137	1:1		10	0.200	1.253	0.251	-
3930	662000	DFT-s OFDM QPSK	100	25.0	24.04	-0.03	Top	0	135	69	1:1		10	0.162	1.247	0.202	-
3930	662000	CP QPSK	100	23.5	22.28	-0.04	Left	1.5	1	1	1:1		10	0.124	1.324	0.164	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

NR Band n77 Hotspot SAR - Power Class 2- Ant. H

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)							(mm)	(W/kg)		(W/kg)	
3930	662000	DFT-s OFDM QPSK	100	27.5	26.52	0.01	Rear	0	1	137	1:1		10	0.317	1.253	0.397	-
3930	662000	DFT-s OFDM QPSK	100	27.5	26.54	-0.13	Rear	0	135	69	1:1		10	0.239	1.247	0.298	-
3930	662000	DFT-s OFDM QPSK	100	27.5	26.52	0.09	Front	0	1	137	1:1		10	0.202	1.253	0.253	-
3930	662000	DFT-s OFDM QPSK	100	27.5	26.54	0.02	Front	0	135	69	1:1		10	0.227	1.247	0.283	-
3750	650000	DFT-s OFDM QPSK	100	27.5	26.02	-0.13	Left	0	1	137	1:1		10	0.372	1.406	0.523	113
3840	656000	DFT-s OFDM QPSK	100	27.5	26.48	0.12	Left	0	1	271	1:1		10	0.320	1.265	0.405	-
3930	662000	DFT-s OFDM QPSK	100	27.5	26.52	0.12	Left	0	1	137	1:1		10	0.336	1.253	0.421	-
3750	650000	DFT-s OFDM QPSK	100	27.5	26.07	0.11	Left	0	135	69	1:1		10	0.342	1.390	0.475	-
3840	656000	DFT-s OFDM QPSK	100	27.5	26.33	0.19	Left	0	135	69	1:1		10	0.242	1.309	0.317	-
3930	662000	DFT-s OFDM QPSK	100	27.5	26.54	0.07	Left	0	135	69	1:1		10	0.330	1.247	0.412	-
3930	662000	DFT-s OFDM QPSK	100	27.5	25.55	0.01	Left	0	270	0	1:1		10	0.237	1.567	0.371	-
3930	662000	DFT-s OFDM QPSK	100	27.5	26.52	0.12	Top	0	1	137	1:1		10	0.245	1.253	0.307	-
3930	662000	DFT-s OFDM QPSK	100	27.5	26.54	0.12	Top	0	135	69	1:1		10	0.257	1.247	0.320	-
3930	662000	CP QPSK	100	26.0	24.93	0.06	Left	1.5	1	1	1:1		10	0.210	1.279	0.269	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

DTS Hotspot SAR

Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.		(MHz)	(Mbps)	(dBm)	(dBm)	(dB)						(W/kg)				
2 437	6	802.11b	20	1	20	19.30	-0.18	Rear	Ant1	99.0	10	1.01	0.599	1.175	1.010	0.711	-
2 437	6	802.11b	20	1	20	19.30	-0.16	Front	Ant1	99.0	10	0.535	0.342	1.175	1.010	0.406	-
2 437	6	802.11b	20	1	20	19.30	0.18	Left	Ant1	99.0	10	0.0887	0.052	1.175	1.010	0.062	-
2 412	1	802.11b	20	1	20	19.12	-0.02	Top	Ant1	99.0	10	0.677	0.424	1.225	1.010	0.525	-
2 437	6	802.11b	20	1	20	19.30	-0.14	Top	Ant1	99.0	10	1.24	0.728	1.175	1.010	0.864	114
2 447	8	802.11b	20	1	20	19.21	0.06	Top	Ant1	99.0	10	0.678	0.419	1.199	1.010	0.507	-
2 437	6	802.11b	20	1	20	18.69	0.17	Rear	Ant2	99.0	10	0.114	0.074	1.352	1.010	0.101	-
2 437	6	802.11b	20	1	20	18.69	0.12	Front	Ant2	99.0	10	0.0841	0.056	1.352	1.010	0.076	-
2 437	6	802.11b	20	1	20	18.69	0.13	Left	Ant2	99.0	10	0.156	0.100	1.352	1.010	0.137	-
2 437	6	802.11b	20	1	20	18.69	0.12	Top	Ant2	99.0	10	0.035	0.023	1.352	1.010	0.031	-
2 412	1	802.11g	20	6	20	19.69	-0.11	Rear	MIMO	93.6	10	0.257	0.166	1.119	1.068	0.198	-
2 412	1	802.11g	20	6	20	19.69	0.03	Front	MIMO	93.6	10	0.231	0.147	1.119	1.068	0.176	-
2 412	1	802.11g	20	6	20	19.69	0.07	Left	MIMO	93.6	10	0.171	0.104	1.119	1.068	0.124	-
2 412	1	802.11g	20	6	20	19.69	-0.17	Top	MIMO	93.6	10	0.604	0.367	1.119	1.068	0.439	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

DTS Hotspot SAR–mmWave/RSBD

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																
2 437	6	802.11b	20	1	14	13.26	-0.18	Rear	Ant1	99.0	10	0.298	0.188	1.186	1.010	0.225	-
2 437	6	802.11b	20	1	14	13.26	-0.18	Front	Ant1	99.0	10	0.193	0.122	1.186	1.010	0.146	-
2 437	6	802.11b	20	1	14	13.26	0.13	Left	Ant1	99.0	10	0.061	0.038	1.186	1.010	0.046	-
2 437	6	802.11b	20	1	14	13.26	0.13	Top	Ant1	99.0	10	0.613	0.380	1.186	1.010	0.455	115
2 437	6	802.11b	20	1	14	13.38	0.18	Rear	Ant2	99.0	10	0.0313	0.020	1.153	1.010	0.023	-
2 437	6	802.11b	20	1	14	13.38	0.16	Front	Ant2	99.0	10	0.0317	0.019	1.153	1.010	0.022	-
2 437	6	802.11b	20	1	14	13.38	0.19	Left	Ant2	99.0	10	0.0434	0.026	1.153	1.010	0.030	-
2 437	6	802.11b	20	1	14	13.38	-0.13	Top	Ant2	99.0	10	0.0105	0.00686	1.153	1.010	0.008	-
2 462	11	802.11g	20	6	17	16.49	-0.12	Rear	MIMO	93.6	10	0.256	0.156	1.130	1.068	0.188	-
2 462	11	802.11g	20	6	17	16.49	-0.05	Front	MIMO	93.6	10	0.170	0.109	1.130	1.068	0.132	-
2 462	11	802.11g	20	6	17	16.49	0.17	Left	MIMO	93.6	10	0.148	0.093	1.130	1.068	0.112	-
2 462	11	802.11g	20	6	17	16.49	0.19	Top	MIMO	93.6	10	0.408	0.249	1.130	1.068	0.301	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

* Power Reduction condition during simultaneous conditions with 5 GHz WLAN

* Power Reduction condition during simultaneous conditions with mmWave and/or 5 GHz WLAN

* Since the result of the above mode was the worst case condition than the RSBD mode, it was applied to the simultaneous transmission evaluation of the WLAN RSDB mode.

5 GHz WLAN Hotspot SAR

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																
5 745	149	802.11a	20	6	18	17.69	0.13	Rear	Ant1	93.6	10	0.970	0.408	1.074	1.068	0.468	116
5 745	149	802.11a	20	6	18	17.69	-0.14	Front	Ant1	93.6	10	0.418	0.171	1.074	1.068	0.196	-
5 745	149	802.11a	20	6	18	17.69	0.14	Left	Ant1	93.6	10	1.2	0.486	1.074	1.068	0.557	-
5 745	149	802.11a	20	6	18	17.69	0.15	Top	Ant1	93.6	10	0.707	0.277	1.074	1.068	0.318	-
5 745	149	802.11a	20	6	18	17.84	-0.10	Rear	Ant2	93.6	10	0.177	0.030	1.038	1.068	0.033	-
5 745	149	802.11a	20	6	18	17.84	0.01	Front	Ant2	93.6	10	0.0966	0.027	1.038	1.068	0.030	-
5 745	149	802.11a	20	6	18	17.84	0.18	Left	Ant2	93.6	10	0.146	0.053	1.038	1.068	0.059	-
5 745	149	802.11a	20	6	18	17.84	0.16	Top	Ant2	93.6	10	0.0571	0.019	1.038	1.068	0.021	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

5 GHz WLAN Hotspot SAR –mmWave/RSD

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																
5775	155	802.11ac	80	MCS0	11	10.55	0.17	Rear	Ant1	86.05	10	0.338	0.145	1.109	1.162	0.187	-
5775	155	802.11ac	80	MCS0	11	10.55	-0.16	Front	Ant1	86.05	10	0.135	0.044	1.109	1.162	0.057	-
5775	155	802.11ac	80	MCS0	11	10.55	0.01	Left	Ant1	86.05	10	0.537	0.215	1.109	1.162	0.277	117
5775	155	802.11ac	80	MCS0	11	10.55	0.03	Top	Ant1	86.05	10	0.223	0.089	1.109	1.162	0.115	-
5775	155	802.11ac	80	MCS0	11	10.41	0.01	Rear	Ant2	86.05	10	0.117	0.016	1.146	1.162	0.021	-
5775	155	802.11ac	80	MCS0	11	10.41	0.01	Front	Ant2	86.05	10	0.00801	0.014	1.146	1.162	0.019	-
5775	155	802.11ac	80	MCS0	11	10.41	0.12	Left	Ant2	86.05	10	0.0967	0.040	1.146	1.162	0.053	-
5775	155	802.11ac	80	MCS0	11	10.41	0.10	Top	Ant2	86.05	10	0.025	0.00938	1.146	1.162	0.012	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

* Power Reduction condition during simultaneous conditions with 2.4 GHz WLAN

* Power Reduction condition during simultaneous conditions with mmWave and/or 2.4 GHz WLAN

DSS Tethering SAR

Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.											
2 480	78	Bluetooth DH5	14.5	13.91	0.18	Rear	10	0.104	1.146	1.300	0.155	-
2 480	78	Bluetooth DH5	14.5	13.91	0.12	Front	10	0.051	1.146	1.300	0.076	-
2 480	78	Bluetooth DH5	14.5	13.91	0.05	Left	10	0.011	1.146	1.300	0.016	-
2 480	78	Bluetooth DH5	14.5	13.91	-0.08	Top	10	0.137	1.146	1.300	0.204	118
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram					

13.4 Phablet SAR Measurement Considerations

Per FCC KDB 648474 D04v01r03, this device is considered a “Phablet” since the diagonal dimension is greater than 160 mm and less than 200 mm. Therefore, extremity SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR >1.2 W/kg. When hotspot mode applies, 10g SAR required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1g SAR > 1.2 W/kg.

13.5 Phablet SAR Measurement Results (DSI=1)

PCS CDMA Phablet SAR10g- Ant. A															
Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dB)	(dB)	(dB)					(mm)	(W/kg)		(W/kg)	
1 908.75	1175	PCS CDMA	EVDO Rev.0	24.5	23.44	0.11	Rear	OFF	1:1	115	8	0.974	1.276	1.243	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	24.5	23.44	-0.07	Front	OFF	1:1	115	6	1.11	1.276	1.416	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	24.5	23.44	0.11	Bottom	OFF	1:1	115	13	0.996	1.276	1.271	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	24.5	23.44	0.13	Left	N/A	1:1	115	0	0.591	1.276	0.754	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	24.5	23.44	0.16	Right	N/A	1:1	115	0	0.263	1.276	0.336	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	20.5	20.03	0.18	Rear	ON	1:1	115	0	1.17	1.114	1.303	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	20.5	20.03	0.01	Front	ON	1:1	115	0	1.36	1.114	1.515	-
1 908.75	1175	PCS CDMA	EVDO Rev.0	20.5	20.03	0.13	Bottom	ON	1:1	115	0	1.39	1.114	1.548	119
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Hand 4.0 W/kg Averaged over 10gram							

GSM 1900 Phablet SAR 10g- Ant. A														
Frequency		Mode	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.													
1 880	661	GPRS 3Tx	28.0	27.56	0.07	Rear	OFF	1:2.77	115	8	0.538	1.107	0.596	-
1 880	661	GPRS 3Tx	28.0	27.56	-0.18	Front	OFF	1:2.77	115	6	0.617	1.107	0.683	-
1 880	661	GPRS 3Tx	28.0	27.56	0.10	Bottom	OFF	1:2.77	115	13	0.594	1.107	0.658	-
1 880	661	GPRS 3Tx	28.0	27.56	-0.11	Left	N/A	1:2.77	115	0	0.330	1.107	0.365	-
1 880	661	GPRS 3Tx	28.0	27.56	0.13	Right	N/A	1:2.77	115	0	0.236	1.107	0.261	-
1 880	661	GPRS 2Tx	23.5	22.25	-0.11	Rear	ON	1:4.149	115	0	0.619	1.334	0.826	-
1 880	661	GPRS 2Tx	23.5	22.25	0.01	Front	ON	1:4.149	115	0	0.821	1.334	1.095	120
1 880	661	GPRS 2Tx	23.5	22.25	0.15	Bottom	ON	1:4.149	115	0	0.793	1.334	1.058	-
NSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Hand 4.0 W/kg Averaged over 10 gram							

UMTS 1700 Phablet SAR 10g- Ant. A

Frequency		Mode	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.													
1 732.4	1412	RMC	24.5	23.77	0.01	Rear	OFF	1:1	51	8	1.05	1.183	1.242	-
1 732.4	1412	RMC	24.5	23.77	-0.10	Front	OFF	1:1	51	6	1.23	1.183	1.455	-
1 732.4	1412	RMC	24.5	23.77	-0.03	Bottom	OFF	1:1	51	13	0.966	1.183	1.143	-
1 732.4	1412	RMC	24.5	23.77	0.08	Left	N/A	1:1	51	0	0.697	1.183	0.825	-
1 732.4	1412	RMC	24.5	23.77	0.15	Right	N/A	1:1	51	0	0.422	1.183	0.499	-
1 732.4	1412	RMC	19.5	18.89	0.15	Rear	ON	1:1	51	0	1.04	1.151	1.197	-
1 732.4	1412	RMC	19.5	18.89	0.01	Front	ON	1:1	51	0	1.29	1.151	1.485	-
1 732.4	1412	RMC	19.5	18.89	0.01	Bottom	ON	1:1	51	0	1.56	1.151	1.796	121
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Hand 4.0 W/kg Averaged over 10 gram						

UMTS 1900 Phablet SAR 10g- Ant. A

Frequency		Mode	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.													
1 880.0	9400	RMC	24.5	24.31	0.11	Rear	OFF	1:1	113	8	0.823	1.045	0.860	-
1 880.0	9400	RMC	24.5	24.31	0.16	Front	OFF	1:1	113	6	1.12	1.045	1.170	-
1 880.0	9400	RMC	24.5	24.31	0.04	Bottom	OFF	1:1	113	13	1.16	1.045	1.212	-
1 880.0	9400	RMC	24.5	24.31	0.16	Left	N/A	1:1	113	0	0.843	1.045	0.881	-
1 880.0	9400	RMC	24.5	24.31	0.10	Right	N/A	1:1	113	0	0.424	1.045	0.443	-
1 880.0	9400	RMC	19.5	19.20	0.15	Rear	ON	1:1	113	0	1.02	1.072	1.093	-
1 880.0	9400	RMC	19.5	19.20	0.01	Front	ON	1:1	113	0	1.11	1.072	1.190	-
1 880.0	9400	RMC	19.5	19.20	0.01	Bottom	ON	1:1	113	0	1.50	1.072	1.608	122
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Hand 4.0 W/kg Averaged over 10 gram						

LTE Band 7 Phablet SAR 10g- Ant. B

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
2 560	21350	QPSK	20	24.5	23.82	-0.18	Rear	OFF	0	1	99	1:1		8	0.519	1.169	0.607	-
2 560	21350	QPSK	20	23.5	22.77	-0.14	Rear	OFF	1	50	25	1:1		8	0.431	1.183	0.510	-
2 560	21350	QPSK	20	24.5	23.82	0.01	Front	OFF	0	1	99	1:1		6	1.01	1.169	1.181	-
2 560	21350	QPSK	20	23.5	22.77	0.03	Front	OFF	1	50	25	1:1		6	0.845	1.183	1.000	-
2 560	21350	QPSK	20	24.5	23.82	-0.06	Bottom	OFF	0	1	99	1:1		13	0.808	1.169	0.945	-
2 560	21350	QPSK	20	23.5	22.77	-0.18	Bottom	OFF	1	50	25	1:1		13	0.706	1.183	0.835	-
2 560	21350	QPSK	20	24.5	23.82	-0.16	Left	N/A	0	1	99	1:1		0	0.687	1.169	0.803	-
2 560	21350	QPSK	20	23.5	22.77	-0.03	Left	N/A	1	50	25	1:1		0	0.576	1.183	0.681	-
2 510	20850	QPSK	20	20.5	19.27	-0.13	Rear	ON	0	1	49	1:1		0	1.37	1.327	1.818	-
2 535	21100	QPSK	20	20.5	19.56	0.11	Rear	ON	0	1	0	1:1		0	1.43	1.242	1.776	-
2 560	21350	QPSK	20	20.5	19.57	-0.14	Rear	ON	0	1	0	1:1		0	1.62	1.239	2.007	123
2 510	20850	QPSK	20	20.5	19.44	0.10	Rear	ON	0	50	25	1:1		0	1.46	1.276	1.863	-
2 535	21100	QPSK	20	20.5	19.64	0.13	Rear	ON	0	50	25	1:1		0	1.64	1.219	1.999	124
2 560	21350	QPSK	20	20.5	19.62	0.10	Rear	ON	0	50	25	1:1		0	1.53	1.225	1.874	-
2 560	21350	QPSK	20	20.5	19.59	0.15	Rear	ON	0	100	0	1:1		0	1.5	1.233	1.850	-
2 510	20850	QPSK	20	20.5	19.27	-0.09	Front	ON	0	1	49	1:1		0	1.11	1.327	1.473	-
2 535	21100	QPSK	20	20.5	19.56	0.11	Front	ON	0	1	0	1:1		0	1.18	1.242	1.466	-
2 560	21350	QPSK	20	20.5	19.57	0.10	Front	ON	0	1	0	1:1		0	1.29	1.239	1.598	-
2 535	21100	QPSK	20	20.5	19.64	-0.11	Front	ON	0	50	25	1:1		0	1.26	1.219	1.536	-
2 560	21350	QPSK	20	20.5	19.59	0.14	Front	ON	0	100	0	1:1		0	1.25	1.233	1.541	-
2 560	21350	QPSK	20	20.5	19.57	-0.15	Bottom	ON	0	1	0	1:1		0	0.334	1.239	0.414	-
2 535	21100	QPSK	20	20.5	19.64	0.15	Bottom	ON	0	50	25	1:1		0	0.339	1.219	0.413	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram									

LTE Band 25 Phablet SAR 10g- Ant. A

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
1 882.5	26365	QPSK	20	25.0	24.61	-0.12	Rear	OFF	0	1	0	1:1	115	8	0.786	1.094	0.860	-
1 882.5	26365	QPSK	20	24.0	23.71	-0.19	Rear	OFF	1	50	25	1:1	115	8	0.636	1.069	0.680	-
1 882.5	26365	QPSK	20	25.0	24.61	-0.05	Front	OFF	0	1	0	1:1	115	6	1.24	1.094	1.357	-
1 882.5	26365	QPSK	20	24.0	23.71	-0.05	Front	OFF	1	50	25	1:1	115	6	1.0	1.069	1.069	-
1 882.5	26365	QPSK	20	25.0	24.61	-0.03	Bottom	OFF	0	1	0	1:1	115	13	1.07	1.094	1.171	-
1 882.5	26365	QPSK	20	24.0	23.71	-0.05	Bottom	OFF	1	50	25	1:1	115	13	0.857	1.069	0.916	-
1 882.5	26365	QPSK	20	25.0	24.61	-0.10	Left	N/A	0	1	0	1:1	115	0	0.614	1.094	0.672	-
1 882.5	26365	QPSK	20	24.0	23.71	-0.10	Left	N/A	1	50	25	1:1	115	0	0.492	1.069	0.526	-
1 882.5	26365	QPSK	20	25.0	24.61	0.03	Right	N/A	0	1	0	1:1	115	0	0.366	1.094	0.400	-
1 882.5	26365	QPSK	20	24.0	23.71	0.13	Right	N/A	1	50	25	1:1	115	0	0.207	1.069	0.221	-
1 882.5	26365	QPSK	20	21.5	20.43	0.16	Rear	ON	0	1	99	1:1	115	0	1.3	1.279	1.663	-
1 882.5	26365	QPSK	20	21.5	20.57	0.12	Rear	ON	0	50	0	1:1	115	0	1.34	1.239	1.660	-
1 882.5	26365	QPSK	20	21.5	20.43	0.10	Front	ON	0	1	99	1:1	115	0	1.36	1.279	1.739	-
1 882.5	26365	QPSK	20	21.5	20.57	0.12	Front	ON	0	50	0	1:1	115	0	1.28	1.239	1.586	-
1 882.5	26365	QPSK	20	21.5	20.43	0.01	Bottom	ON	0	1	99	1:1	115	0	1.44	1.279	1.842	125
1 882.5	26365	QPSK	20	21.5	20.57	-0.19	Bottom	ON	0	50	0	1:1	115	0	1.41	1.239	1.747	-

ANSI/ IEEE C95.1 - 2005 – Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Hand
4.0 W/kg
Averaged over 10 gram

LTE Band 30 Phablet SAR 10g- Ant. B

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
2 310	27710	QPSK	10	23.0	22.31	0.10	Rear	OFF	0	1	24	1:1		8	0.778	1.172	0.912	-
2 310	27710	QPSK	10	22.0	21.39	0.14	Rear	OFF	1	25	0	1:1		8	0.630	1.151	0.725	-
2 310	27710	QPSK	10	23.0	22.31	-0.01	Front	OFF	0	1	24	1:1		6	1.33	1.172	1.559	126
2 310	27710	QPSK	10	22.0	21.39	-0.13	Front	OFF	1	25	0	1:1		6	1.09	1.151	1.255	-
2 310	27710	QPSK	10	23.0	22.31	0.13	Bottom	OFF	0	1	24	1:1		13	1.01	1.172	1.184	-
2 310	27710	QPSK	10	22.0	21.39	-0.14	Bottom	OFF	1	25	0	1:1		13	0.807	1.151	0.929	-
2 310	27710	QPSK	10	23.0	22.31	-0.17	Left	N/A	0	1	24	1:1		0	0.661	1.172	0.775	-
2 310	27710	QPSK	10	22.0	21.39	0.12	Left	N/A	1	25	0	1:1		0	0.533	1.151	0.613	-
2 310	27710	QPSK	10	19.0	18.18	0.01	Rear	ON	0	1	0	1:1		0	0.693	1.208	0.837	-
2 310	27710	QPSK	10	19.0	18.21	0.01	Rear	ON	0	25	12	1:1		0	0.703	1.199	0.843	-
2 310	27710	QPSK	10	19.0	18.18	0.01	Front	ON	0	1	0	1:1		0	0.759	1.208	0.917	-
2 310	27710	QPSK	10	19.0	18.21	0.01	Front	ON	0	25	12	1:1		0	0.781	1.199	0.936	-
2 310	27710	QPSK	10	19.0	18.18	0.13	Bottom	ON	0	1	0	1:1		0	1.19	1.208	1.438	-
2 310	27710	QPSK	10	19.0	18.21	0.16	Bottom	ON	0	25	12	1:1		0	1.14	1.199	1.367	-

ANSI/ IEEE C95.1 - 2005 – Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Hand
4.0 W/kg
Averaged over 10 gram

LTE Band 41 Phablet SAR 10g- Ant. B

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.	
MHz	Ch.																		
Power class 3																			
2 593	40620	QPSK	20	25.5	24.79	0.17	Rear	OFF	0	1	99	1:1.58		8	0.314	1.178	0.370	-	
2 593	40620	QPSK	20	24.5	24.18	0.10	Rear	OFF	1	50	25	1:1.58		8	0.274	1.076	0.295	-	
2 593	40620	QPSK	20	25.5	24.79	0.15	Front	OFF	0	1	99	1:1.58		6	0.525	1.178	0.618	-	
2 593	40620	QPSK	20	24.5	24.18	0.14	Front	OFF	1	50	25	1:1.58		6	0.458	1.076	0.493	-	
2 593	40620	QPSK	20	25.5	24.79	-0.12	Bottom	OFF	0	1	99	1:1.58		13	0.529	1.178	0.623	-	
2 593	40620	QPSK	20	24.5	24.18	-0.08	Bottom	OFF	1	50	25	1:1.58		13	0.472	1.076	0.508	-	
2 593	40620	QPSK	20	25.5	24.79	-0.19	Left	N/A	0	1	99	1:1.58		0	0.611	1.178	0.720	-	
2 593	40620	QPSK	20	24.5	24.18	-0.04	Left	N/A	1	50	25	1:1.58		0	0.534	1.076	0.575	-	
2 593	40620	QPSK	20	22.5	21.76	0.01	Rear	ON	0	1	99	1:1.58		0	0.990	1.186	1.174	-	
2 593	40620	QPSK	20	22.5	21.77	0.01	Rear	ON	0	50	49	1:1.58		0	1.1	1.183	1.301	-	
2 593	40620	QPSK	20	22.5	21.76	0.10	Front	ON	0	1	99	1:1.58		0	0.949	1.186	1.126	-	
2 593	40620	QPSK	20	22.5	21.77	0.10	Front	ON	0	50	49	1:1.58		0	1.05	1.183	1.242	-	
2 593	40620	QPSK	20	22.5	21.76	0.16	Bottom	ON	0	1	99	1:1.58		0	0.872	1.186	1.034	-	
2 593	40620	QPSK	20	22.5	21.77	0.13	Bottom	ON	0	50	49	1:1.58		0	0.967	1.183	1.144	-	
Up-link Carrier Aggregation Power class 3 (41C)																			
2 593	40620	QPSK	PCC	20	22.5	21.75	0.10	Rear	ON	0	1	99	1:1.58		0	1.3	1.189	1.546	127
2 612.8	40818	QPSK	SCC	20							1	0							
Up-link Carrier AggregationPower class 2(HPUE) (41C)																			
2 593	40620	QPSK	PCC	20	22.5	22.05	0.18	Rear	ON	0	1	99	1:2.31		0	1.28	1.109	1.420	-
2 612.8	40818	QPSK	SCC	20							1	0							
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram										

LTE Band 66 Phablet SAR 10g- Ant. A

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.	
MHz	Ch.																		
1 770	132572	QPSK	20	24.5	24.01	0.13	Rear	OFF	0	1	0	1:1	51	8	0.925	1.119	1.035	-	
1 745	132322	QPSK	20	23.5	23.05	0.14	Rear	OFF	1	50	49	1:1	51	8	0.769	1.109	0.853	-	
1 770	132572	QPSK	20	24.5	24.01	0.17	Front	OFF	0	1	0	1:1	51	6	1.16	1.119	1.298	-	
1 745	132322	QPSK	20	23.5	23.05	0.10	Front	OFF	1	50	49	1:1	51	6	0.973	1.109	1.079	-	
1 770	132572	QPSK	20	24.5	24.01	0.17	Bottom	OFF	0	1	0	1:1	51	13	0.802	1.119	0.897	-	
1 745	132322	QPSK	20	23.5	23.05	0.11	Bottom	OFF	1	50	49	1:1	51	13	0.408	1.109	0.452	-	
1 770	132572	QPSK	20	24.5	24.01	0.10	Left	N/A	0	1	0	1:1	51	0	0.348	1.119	0.389	-	
1 745	132322	QPSK	20	23.5	23.05	0.13	Left	N/A	1	50	49	1:1	51	0	0.256	1.109	0.284	-	
1 770	132572	QPSK	20	24.5	24.01	0.05	Right	N/A	0	1	0	1:1	51	0	0.246	1.119	0.275	-	
1 745	132322	QPSK	20	23.5	23.05	0.19	Right	N/A	1	50	49	1:1	51	0	0.179	1.109	0.199	-	
1 745	132322	QPSK	20	21.0	19.74	0.10	Rear	ON	0	1	99	1:1	51	0	1.04	1.337	1.390	-	
1 720	132072	QPSK	20	21.0	19.85	0.19	Rear	ON	0	50	49	1:1	51	0	1.08	1.303	1.407	-	
1 745	132322	QPSK	20	21.0	19.74	0.19	Front	ON	0	1	99	1:1	51	0	1.29	1.337	1.725	-	
1 720	132072	QPSK	20	21.0	19.85	0.16	Front	ON	0	50	49	1:1	51	0	1.36	1.303	1.772	-	
1 720	132072	QPSK	20	21.0	19.69	0.01	Bottom	ON	0	1	99	1:1	51	0	1.8	1.352	2.434	128	
1 745	132322	QPSK	20	21.0	19.74	0.01	Bottom	ON	0	1	99	1:1	51	0	1.62	1.337	2.166	-	
1 770	132572	QPSK	20	21.0	19.69	0.02	Bottom	ON	0	1	99	1:1	51	0	1.68	1.352	2.271	-	
1 720	132072	QPSK	20	21.0	19.85	0.03	Bottom	ON	0	50	49	1:1	51	0	1.73	1.303	2.254	-	
1 745	132322	QPSK	20	21.0	19.84	-0.16	Bottom	ON	0	50	25	1:1	51	0	1.72	1.306	2.246	-	
1 770	132572	QPSK	20	21.0	19.81	-0.10	Bottom	ON	0	50	25	1:1	51	0	1.79	1.315	2.354	-	
1 720	132572	QPSK	20	21.0	19.80	-0.16	Bottom	ON	0	100	0	1:1	51	0	1.68	1.318	2.214	-	
Up-link Carrier Aggregation (66B)																			
1 715	132022	QPSK	PCC	10	21.0	19.62	-0.04	Bottom	ON	0	1	49	1:1	51	0	0.890	1.225	1.090	-
1724.9	132121	QPSK	SCC	10							1	0							
Up-link Carrier Aggregation (66C)																			
1 745	132322	QPSK	PCC	20	21.0	19.61	-0.07	Bottom	ON	0	1	99	1:1	51	0	1.39	1.227	1.706	-
1764.8	132520	QPSK	SCC	20							1	0							
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram										

NR Band n25 Phablet SAR 10g- Ant. A

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Hz	Ch.																	
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.87	0.17	Rear	OFF	0	1	108	1:1	115	8	0.651	1.156	0.753	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	24.08	-0.18	Rear	OFF	0	108	54	1:1	115	8	0.645	1.102	0.711	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.87	0.01	Front	OFF	0	1	108	1:1	115	6	0.859	1.156	0.993	129
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	24.08	-0.10	Front	OFF	0	108	54	1:1	115	6	0.829	1.102	0.914	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.87	-0.01	Bottom	OFF	0	1	108	1:1	115	13	0.669	1.156	0.773	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	24.08	0.09	Bottom	OFF	0	108	54	1:1	115	13	0.707	1.102	0.779	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.87	0.10	Left	N/A	0	1	108	1:1	115	0	0.187	1.156	0.216	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	24.08	0.10	Left	N/A	0	108	54	1:1	115	0	0.188	1.102	0.207	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.87	-0.06	Right	N/A	0	1	108	1:1	115	0	0.181	1.156	0.209	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	24.08	0.03	Right	N/A	0	108	54	1:1	115	0	0.143	1.102	0.158	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.58	0.11	Rear	ON	0	1	108	1:1	115	0	0.759	1.236	0.938	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.62	0.01	Rear	ON	0	108	54	1:1	115	0	0.772	1.225	0.946	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.58	0.01	Front	ON	0	1	108	1:1	115	0	0.727	1.236	0.899	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.62	0.01	Front	ON	0	108	0	1:1	115	0	0.780	1.225	0.956	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.58	0.09	Bottom	ON	0	1	108	1:1	115	0	0.793	1.236	0.980	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.5	18.62	0.03	Bottom	ON	0	108	0	1:1	115	0	0.808	1.225	0.990	-
1 882.5	376500	CP QPSK	40	23.0	22.35	-0.12	Front	OFF	0	1	1	1:1	115	6	0.722	1.161	0.838	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram									

NR Band n30 Phablet SAR 10g- Ant. B

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Hz	Ch.																	
2 310	462000	DFT-s OFDM QPSK	10	24.5	22.79	-0.12	Rear	OFF	0	1	26	1:1		8	0.663	1.483	0.983	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.06	0.10	Rear	OFF	0	25	14	1:1		8	0.506	1.393	0.705	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	22.79	0.13	Front	OFF	0	1	26	1:1		6	1.06	1.483	1.572	130
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.06	-0.01	Front	OFF	0	25	14	1:1		6	0.795	1.393	1.107	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	22.79	0.05	Bottom	OFF	0	1	26	1:1		13	1.06	1.483	1.572	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.06	0.05	Bottom	OFF	0	25	14	1:1		13	0.777	1.393	1.082	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	22.79	-0.13	Left	N/A	0	1	26	1:1		0	0.623	1.483	0.924	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.06	0.14	Left	N/A	0	25	14	1:1		0	0.427	1.393	0.595	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.24	0.10	Rear	ON	0	1	26	1:1		0	0.914	1.062	0.971	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.31	0.10	Rear	ON	0	25	27	1:1		0	0.953	1.045	0.996	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.24	0.12	Front	ON	0	1	26	1:1		0	0.744	1.062	0.790	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.31	0.17	Front	ON	0	25	27	1:1		0	0.799	1.045	0.835	-
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.24	0.03	Bottom	ON	0	1	26	1:1		0	1.14	1.062	1.211	131
2 310	462000	DFT-s OFDM QPSK	10	18.5	18.31	0.01	Bottom	ON	0	25	27	1:1		0	1.07	1.045	1.118	-
2 310	462000	CP QPSK	10	23.0	21.26	0.09	Front	OFF	0	1	1	1:1		6	0.728	1.493	1.087	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram									

NR Band n66 (PCS) Phablet SAR 10g- Ant. A																		
Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.00	-0.01	Rear	OFF	0	1	108	1:1	51	8	0.855	1.122	0.959	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.25	-0.17	Rear	OFF	0	108	54	1:1	51	8	0.886	1.059	0.938	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.00	0.16	Front	OFF	0	1	108	1:1	51	6	1.02	1.122	1.144	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.25	0.12	Front	OFF	0	108	54	1:1	51	6	0.982	1.059	1.040	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.00	-0.07	Bottom	OFF	0	1	108	1:1	51	13	0.760	1.122	0.853	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.25	-0.07	Bottom	OFF	0	108	54	1:1	51	13	0.766	1.059	0.811	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.00	-0.16	Left	N/A	0	1	108	1:1	51	0	0.125	1.122	0.140	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.25	-0.16	Left	N/A	0	108	54	1:1	51	0	0.120	1.059	0.127	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.00	0.19	Right	N/A	0	1	108	1:1	51	0	0.142	1.122	0.159	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.25	0.16	Right	N/A	0	108	54	1:1	51	0	0.113	1.059	0.120	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.34	-0.10	Rear	ON	0	1	108	1:1	51	0	0.936	1.306	1.222	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.58	0.11	Rear	ON	0	108	54	1:1	51	0	1.03	1.236	1.273	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.34	0.12	Front	ON	0	1	108	1:1	51	0	1.07	1.306	1.397	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.58	0.01	Front	ON	0	108	54	1:1	51	0	1.1	1.236	1.360	132
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.34	-0.01	Bottom	ON	0	1	108	1:1	51	0	0.914	1.306	1.194	-
1 745	349000	DFT-s OFDM QPSK	40	20.5	19.58	-0.01	Bottom	ON	0	108	54	1:1	51	0	0.978	1.236	1.209	-
1 745	349000	CP QPSK	40	20.5	19.38	0.01	Front	ON	0	1	1	1:1	51	0	1.09	1.294	1.410	133
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Hand 4.0 W/kg Averaged over 10 gram										

5 GHz WLAN Phablet SAR 10g

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant. Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
5 320	64	802.11a	20	6	18	17.88	0.15	Rear	Ant1	93.6	0	3.12	0.415	1.028	1.068	0.456	-
5 320	64	802.11a	20	6	18	17.88	0.00	Front	Ant1	93.6	0	10.3	0.920	1.028	1.068	1.010	-
5 320	64	802.11a	20	6	18	17.88	0.11	Left	Ant1	93.6	0	22.1	1.42	1.028	1.068	1.559	-
5 320	64	802.11a	20	6	18	17.88	-0.03	Top	Ant1	93.6	0	4.87	0.505	1.028	1.068	0.554	-
5 720	144	802.11a	20	6	18	17.92	0.10	Rear	Ant1	93.6	0	4.87	0.562	1.019	1.068	0.612	-
5 720	144	802.11a	20	6	18	17.92	0.01	Front	Ant1	93.6	0	3.65	0.395	1.019	1.068	0.430	-
5 720	144	802.11a	20	6	18	17.92	-0.12	Left	Ant1	93.6	0	18.8	1.93	1.019	1.068	2.100	134
5 600	120	802.11a	20	6	18	17.68	-0.19	Left	Ant1	93.6	0	23.2	1.68	1.076	1.068	1.933	-
5 720	144	802.11a	20	6	18	17.92	0.13	Top	Ant1	93.6	0	5.2	0.664	1.019	1.068	0.723	-
5 300	60	802.11a	20	6	18	17.09	-0.16	Rear	Ant2	93.6	0	6.6	0.459	1.233	1.068	0.604	-
5 300	60	802.11a	20	6	18	17.09	0.01	Front	Ant2	93.6	0	2.39	0.264	1.233	1.068	0.348	-
5 300	60	802.11a	20	6	18	17.09	-0.10	Left	Ant2	93.6	0	1.0	0.103	1.233	1.068	0.136	-
5 300	60	802.11a	20	6	18	17.09	-0.15	Top	Ant2	93.6	0	0.472	0.054	1.233	1.068	0.071	-
5 720	144	802.11a	20	6	18	17.47	0.10	Rear	Ant2	93.6	0	1.54	0.122	1.130	1.068	0.147	-
5 720	144	802.11a	20	6	18	17.47	0.01	Front	Ant2	93.6	0	2.78	0.254	1.130	1.068	0.307	-
5 720	144	802.11a	20	6	18	17.47	-0.17	Left	Ant2	93.6	0	5.17	0.371	1.130	1.068	0.448	-
5 720	144	802.11a	20	6	18	17.47	0.10	Top	Ant2	93.6	0	0.397	0.032	1.130	1.068	0.039	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Hand 4.0 W/kg Averaged over 10 gram					

5 GHz WLAN Phablet SAR 10g - mmWave/RSDB																	
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant. Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
5 290	58	802.11ac	80	MCS0	11	10.32	-0.16	Rear	Ant1	86.05	0	1.96	0.190	1.169	1.162	0.258	-
5 290	58	802.11ac	80	MCS0	11	10.32	0.01	Front	Ant1	86.05	0	2.63	0.363	1.169	1.162	0.493	-
5 290	58	802.11ac	80	MCS0	11	10.32	0.16	Left	Ant1	86.05	0	5.79	0.513	1.169	1.162	0.697	135
5 290	58	802.11ac	80	MCS0	11	10.32	-0.12	Top	Ant1	86.05	0	2.38	0.160	1.169	1.162	0.217	-
5 610	122	802.11ac	80	MCS0	11	10.92	-0.13	Rear	Ant1	86.05	0	2.52	0.188	1.019	1.162	0.223	-
5 610	122	802.11ac	80	MCS0	11	10.92	0.01	Front	Ant1	86.05	0	3.31	0.235	1.019	1.162	0.278	-
5 610	122	802.11ac	80	MCS0	11	10.92	0.01	Left	Ant1	86.05	0	5.34	0.391	1.019	1.162	0.463	-
5 610	122	802.11ac	80	MCS0	11	10.92	0.12	Top	Ant1	86.05	0	1.75	0.115	1.019	1.162	0.136	-
5 290	58	802.11ac	80	MCS0	11	9.07	0.07	Rear	Ant2	86.05	0	1.06	0.108	1.560	1.162	0.196	-
5 290	58	802.11ac	80	MCS0	11	9.07	0.01	Front	Ant2	86.05	0	1.46	0.183	1.560	1.162	0.332	-
5 290	58	802.11ac	80	MCS0	11	9.07	0.12	Left	Ant2	86.05	0	0.324	0.033	1.560	1.162	0.060	-
5 290	58	802.11ac	80	MCS0	11	9.07	-0.11	Top	Ant2	86.05	0	0.0998	0.012	1.560	1.162	0.022	-
5 610	122	802.11ac	80	MCS0	11	9.86	0.01	Rear	Ant2	86.05	0	0.937	0.077	1.300	1.162	0.116	-
5 610	122	802.11ac	80	MCS0	11	9.86	0.01	Front	Ant2	86.05	0	0.821	0.069	1.300	1.162	0.104	-
5 610	122	802.11ac	80	MCS0	11	9.86	0.07	Left	Ant2	86.05	0	0.352	0.037	1.300	1.162	0.056	-
5 610	122	802.11ac	80	MCS0	11	9.86	0.01	Top	Ant2	86.05	0	0.102	0.00705	1.300	1.162	0.011	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Hand 4.0 W/kg Averaged over 10 gram					

* Head condition during simultaneous conditions with 2.4GHz WLAN

* Head condition during simultaneous conditions with mmWave and/or 2.4 GHz WLAN

13.6 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB 648474 D04v01r03, SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was 1.2 W/kg, no additional SAR evaluation using a headset cable were required.
8. Per KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is > 160 mm and < 200 mm. When hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance) is 1 g SAR > 1.2 W/kg.
9. Per FCC KDB 865664 D01v01r04, variability SAR measurement were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg for 1g SAR and >2 for 10g SAR Please see Section 15 for variability analysis.
10. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.
11. During SAR testing for the Hotspot conditions per KDB 941225 D06v02r01, the actual portable hotspot operation (with actual simultaneous transmission of a transmitter with WiFi) was not activated.
12. This device uses Qualcomm Smart Transmit for 2G/3G/4G/5G operations to control and managetransmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance forwas assessed at the minimum of the time averaged power and the maximum output power for eachband/mode/exposure condition (DSI).

CDMA Notes:

1. Head SAR for CDMA2000 mode was tested under RC3/SO55 per FCC KDB Publication 941225 D01v03r01.
2. Body-Worn SAR was tested with 1x RTT with TDSO / SO32 FCH Only. EVDO Rev0 and RevA and TDSO / SO32 FCH+SCH SAR tests were not required per the 3G SAR Test Reduction Procedure in FCCKDB Publication 941225 D01v03r01.
3. CDMA Wireless Router SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0 according to KDB 941225 D01v03r01 procedures for data devices. Wireless Router SAR tests for Subtype 2 of Rev.A and 1x RTT configurations were not required per the 3G SAR Test Reduction Policyin KDB Publication 941225 D01v03r01.
4. Head SAR was additionally evaluated using EVDO Rev. A to determine compliance for VoIP operations.
5. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testin g at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest outputpower channel was used.

GSM/GPRS Test Notes:

1. This EUT'S GSM and GPRS device class is B.
2. This device supports GPRS VOIP in the head and the body-worn configurations therefore GPRS was additionally evaluated for head and body-worn compliance.
3. Justification for reduced test configurations per KDB 941225 D01v03r01: The source-based time-averaged output power was evaluated for all multi-slot operations. The multi-slot configuration with the highest frame averaged output power including tolerance was evaluated for SAR.
4. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is 1/2 dB, instead of the middle channel, the highest output power channel must be used.

UMTS Notes:

1. The 12.2 kbps RMC mode is the primary mode per KDB 941225 D01v03r01.
2. UMTS SAR was tested under RMC 12.2 kbps with HSPA inactive per KDB publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
3. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the channel highest output power channel was used.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Consideration for LTE Devices in FCC KDB 941225 D05v02r05.
2. According to FCC KDB 941225 D05v02r05:
When the reported SAR is 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the 1RB, 50%RB and 100%RB allocation with highest output power for that channel.
Only one channel, and as reported SAR values for 1RB allocation and 50%RB allocation were less than 1.45W/Kg only the highest power RB offset for each allocation was required.
3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to target MPR is indicated alongside the SAR results.
4. When Power reduction is applied, MPR is 0 for some modes.
5. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator.
6. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is 0.6 W/kg then testing at the other channels is not required for such test configurations.
7. TDD LTE (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S subframes using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
8. Per KDB 941225 D05Av01r02, SAR for LTE Carrier Aggregation operations was not needed because the maximum average output power in LTE CA mode was not > 0.25 dB higher than the maximum output power when downlink CA was not activated.
9. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3% using UL-DL configuration 1. Per May TCB Workshop notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.

10. This device supports LTE Carrier Aggregation(CA) in Uplink for LTE 41C/5B/66B/66C/48C with two component carriers in the uplink. SAR measurements and conducted powers were evaluated per Fall 2017 TCBC Workshop notes (LTE Carrier aggregation).
For LTE Band 5, LTE Band 66, LTE Band 41 and LTE Band 48, per 2017 TCBC Workshop notes ,SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active.
Because the maximum output for UL CA of LTE 41C/5B/66B/66C/48C is $\leq$ standalone LTE mode (without CA), SAR for LTE41C/5B/66B/66C/48C Up link CA was performed at the highest standalone SAR configuration without CA and also UL CA SAR is not required for all required test channels, Because the reported SAR for UL CA configuration is < 1.4 W/kg.
The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
11. 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 a 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.

NR Notes:

1. Due to Limitations of the SAR measurement equipment, SAR testing for NR was performed using test mode (FTM) software.
2. More detailed specifications of the NR bands are contained in the Technical description document.
3. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
4. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
5. For final implementation, TDD NR slot configuration is synchronized using maximum duty cycle of 100%.
6. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
7. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report.
8. Per Oct. 2020 TCBC workshop notes(Dynamic Antenna Tuner), the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency as the NR test results. Please see the sec 17

WLAN Notes:

1. For held-to-ear and hotspot operations, the initial test position procedures were applied. For initial test position, the highest extrapolated peak SAR will be used. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g SAR and ≤ 1.0 W/kg for 10g SAR, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR results is ≤ 0.8 W/kg for 1g SAR and ≤ 2.0 W/kg for 10g SAR or all test position are measured.
2. Per KDB 2482227 D01v02r02 justification for test configurations of 2.4 GHz WiFi Single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11 g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR
3. Per KDB 2482227 D01v02r02 justification for test configurations of 5 GHz WiFi Single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission mode were not investigated since the highest reported SAR for initial test configuration adjusted by the ration of maximum output powers is less than 1.2 W/kg for 1g SAR and less than 3.0 W/kg for 10 g SAR.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg or all test channels were measured.
5. The device was configured to transmit continuously at the required data rated, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated WLAN test reports.

Bluetooth Notes:

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests mode type. Per October 2016 TCBC Workshop Notes, the reported SAR was scaled to 100% transmission duty factor to determine compliance. Please see sec.11 for the time-domain plot and calculation for duty factor of the device.
2. Head and Bluetooth tethering SAR were evaluated for BT BR tethering applications.

14. Simultaneous SAR Analysis

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is $\leq 1.6\text{W/kg}$ for 1g SAR and $\leq 4\text{ W/kg}$ for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

14.1 Head SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Summation Scenario with 2.4 GHz Ant WLAN									
Exposure condition	Band	WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	
Head SAR	EVDO BC0 (\$22H)	0.226	0.311	0.091	0.375	0.537	0.317	0.601	No
	PCS CDMA/EVDO	0.429	0.311	0.091	0.375	0.740	0.520	0.804	No
	EVDO BC10 (\$90S)	0.212	0.311	0.091	0.375	0.523	0.303	0.587	No
	GSM 850	0.237	0.311	0.091	0.375	0.548	0.328	0.612	No
	GPRS 850	0.228	0.311	0.091	0.375	0.539	0.319	0.603	No
	GSM 1900	0.120	0.311	0.091	0.375	0.431	0.211	0.495	No
	GPRS 1900	0.165	0.311	0.091	0.375	0.476	0.256	0.540	No
	UMTS 850	0.235	0.311	0.091	0.375	0.546	0.326	0.610	No
	UMTS 1700	0.153	0.311	0.091	0.375	0.464	0.244	0.528	No
	UMTS 1900	0.160	0.311	0.091	0.375	0.471	0.251	0.535	No
	LTE Band 7	0.131	0.311	0.091	0.375	0.442	0.222	0.506	No
	LTE Band 12	0.198	0.311	0.091	0.375	0.509	0.289	0.573	No
	LTE Band 13	0.241	0.311	0.091	0.375	0.552	0.332	0.616	No
	LTE Band 14	0.230	0.311	0.091	0.375	0.541	0.321	0.605	No
	LTE Band 25	0.195	0.311	0.091	0.375	0.506	0.286	0.570	No
	LTE Band 26 (5)	0.306	0.311	0.091	0.375	0.617	0.397	0.681	No
	LTE Band 30	0.114	0.311	0.091	0.375	0.425	0.205	0.489	No
	LTE Band 40 Low	0.005	0.311	0.091	0.375	0.316	0.096	0.380	No
	LTE Band 40 Upper	0.005	0.311	0.091	0.375	0.316	0.096	0.380	No
	LTE Band 41	0.123	0.311	0.091	0.375	0.434	0.214	0.498	No
	LTE Band 48	0.618	0.311	0.091	0.375	0.929	0.709	0.993	No
	LTE Band 66	0.216	0.311	0.091	0.375	0.527	0.307	0.591	No
	LTE Band 71	0.137	0.311	0.091	0.375	0.448	0.228	0.512	No
	NR Band n5	0.253	0.311	0.091	0.375	0.564	0.344	0.628	No
	NR Band n12	0.165	0.311	0.091	0.375	0.476	0.256	0.540	No
	NR Band n25	0.171	0.311	0.091	0.375	0.482	0.262	0.546	No
	NR Band n30	0.149	0.311	0.091	0.375	0.460	0.240	0.524	No
	NR Band n41 (PC3)	0.076	0.311	0.091	0.375	0.387	0.167	0.451	No
	NR Band n41 (PC2)	0.114	0.311	0.091	0.375	0.425	0.205	0.489	No
	NR Band n66	0.104	0.311	0.091	0.375	0.415	0.195	0.479	No
	NR Band n71	0.111	0.311	0.091	0.375	0.422	0.202	0.486	No
	NR Band n77 (PC3)	0.767	0.311	0.091	0.375	1.078	0.858	1.142	No
	NR Band n77 (PC2)	0.647	0.311	0.091	0.375	0.958	0.738	1.022	No

Simultaneous Transmission Summation Scenario with 5 GHz WLAN

Exposure condition	Band	WWAN SAR	5 GHz WLAN Ant1 SAR	5 GHz WLAN Ant2 SAR	5 GHz WLAN MIMO SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	
Head SAR	EVDO BC0 (\$22H)	0.226	0.277	0.272	0.219	0.503	0.498	0.445	No
	PCS CDMA/EVDO	0.429	0.277	0.272	0.219	0.706	0.701	0.648	No
	EVDO BC10 (\$90S)	0.212	0.277	0.272	0.219	0.489	0.484	0.431	No
	GSM 850	0.237	0.277	0.272	0.219	0.514	0.509	0.456	No
	GPRS 850	0.228	0.277	0.272	0.219	0.505	0.500	0.447	No
	GSM 1900	0.120	0.277	0.272	0.219	0.397	0.392	0.339	No
	GPRS 1900	0.165	0.277	0.272	0.219	0.442	0.437	0.384	No
	UMTS 850	0.235	0.277	0.272	0.219	0.512	0.507	0.454	No
	UMTS 1700	0.153	0.277	0.272	0.219	0.430	0.425	0.372	No
	UMTS 1900	0.160	0.277	0.272	0.219	0.437	0.432	0.379	No
	LTE Band 7	0.131	0.277	0.272	0.219	0.408	0.403	0.350	No
	LTE Band 12	0.198	0.277	0.272	0.219	0.475	0.470	0.417	No
	LTE Band 13	0.241	0.277	0.272	0.219	0.518	0.513	0.460	No
	LTE Band 14	0.230	0.277	0.272	0.219	0.507	0.502	0.449	No
	LTE Band 25	0.195	0.277	0.272	0.219	0.472	0.467	0.414	No
	LTE Band 26 (5)	0.306	0.277	0.272	0.219	0.583	0.578	0.525	No
	LTE Band 30	0.114	0.277	0.272	0.219	0.391	0.386	0.333	No
	LTE Band 40 Low	0.005	0.277	0.272	0.219	0.282	0.277	0.224	No
	LTE Band 40 Upper	0.005	0.277	0.272	0.219	0.282	0.277	0.224	No
	LTE Band 41	0.123	0.277	0.272	0.219	0.400	0.395	0.342	No
	LTE Band 48	0.618	0.277	0.272	0.219	0.895	0.890	0.837	No
	LTE Band 66	0.216	0.277	0.272	0.219	0.493	0.488	0.435	No
	LTE Band 71	0.137	0.277	0.272	0.219	0.414	0.409	0.356	No
	NR Band n5	0.253	0.277	0.272	0.219	0.530	0.525	0.472	No
	NR Band n12	0.165	0.277	0.272	0.219	0.442	0.437	0.384	No
	NR Band n25	0.171	0.277	0.272	0.219	0.448	0.443	0.390	No
	NR Band n30	0.149	0.277	0.272	0.219	0.426	0.421	0.368	No
	NR Band n41 (PC3)	0.076	0.277	0.272	0.219	0.353	0.348	0.295	No
	NR Band n41 (PC2)	0.114	0.277	0.272	0.219	0.391	0.386	0.333	No
	NR Band n66	0.104	0.277	0.272	0.219	0.381	0.376	0.323	No
	NR Band n71	0.111	0.277	0.272	0.219	0.388	0.383	0.330	No
	NR Band n77 (PC3)	0.767	0.277	0.272	0.219	1.044	1.039	0.986	No
	NR Band n77 (PC2)	0.647	0.277	0.272	0.219	0.924	0.919	0.866	No

Simultaneous Transmission Summation Scenario with 5 GHz RSDB WLAN & Bluetooth						
Exposure condition	Band	WWAN SAR	5 GHz WLAN MIMO RSDB SAR	Bluetooth SAR	Σ 1-g SAR	SPLSR (Yes/No)
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	
		1	2	3	1+2+3	
Head SAR	EVDO BC0 (\$22H)	0.226	0.219	0.460	0.905	No
	PCS CDMA/EVDO	0.429	0.219	0.460	1.108	No
	EVDO BC10 (\$90S)	0.212	0.219	0.460	0.891	No
	GSM 850	0.237	0.219	0.460	0.916	No
	GPRS 850	0.228	0.219	0.460	0.907	No
	GSM 1900	0.120	0.219	0.460	0.799	No
	GPRS 1900	0.165	0.219	0.460	0.844	No
	UMTS 850	0.235	0.219	0.460	0.914	No
	UMTS 1700	0.153	0.219	0.460	0.832	No
	UMTS 1900	0.160	0.219	0.460	0.839	No
	LTE Band 7	0.131	0.219	0.460	0.810	No
	LTE Band 12	0.198	0.219	0.460	0.877	No
	LTE Band 13	0.241	0.219	0.460	0.920	No
	LTE Band 14	0.230	0.219	0.460	0.909	No
	LTE Band 25	0.195	0.219	0.460	0.874	No
	LTE Band 26 (5)	0.306	0.219	0.460	0.985	No
	LTE Band 30	0.114	0.219	0.460	0.793	No
	LTE Band 40 Low	0.005	0.219	0.460	0.684	No
	LTE Band 40 Upper	0.005	0.219	0.460	0.684	No
	LTE Band 41	0.123	0.219	0.460	0.802	No
	LTE Band 48	0.618	0.219	0.460	1.297	No
	LTE Band 66	0.216	0.219	0.460	0.895	No
	LTE Band 71	0.137	0.219	0.460	0.816	No
	NR Band n5	0.253	0.219	0.460	0.932	No
	NR Band n12	0.165	0.219	0.460	0.844	No
	NR Band n25	0.171	0.219	0.460	0.850	No
	NR Band n30	0.149	0.219	0.460	0.828	No
	NR Band n41 (PC3)	0.076	0.219	0.460	0.755	No
	NR Band n41 (PC2)	0.114	0.219	0.460	0.793	No
	NR Band n66	0.104	0.219	0.460	0.783	No
	NR Band n71	0.111	0.219	0.460	0.790	No
	NR Band n77 (PC3)	0.767	0.219	0.460	1.446	No
	NR Band n77 (PC2)	0.647	0.219	0.460	1.326	No

Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN & with 5 GHz WLAN										
Exposure condition	Band	WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO RSDB SAR	5 GHz WLAN MIMO RSDB SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	5	1+2+5	1+3+5	1+4+5	
Head SAR	EVDO BC0 (\$22H)	0.226	0.311	0.091	0.375	0.219	0.756	0.536	0.820	No
	PCS CDMA/EVDO	0.429	0.311	0.091	0.375	0.219	0.959	0.739	1.023	No
	EVDO BC10 (\$90S)	0.212	0.311	0.091	0.375	0.219	0.742	0.522	0.806	No
	GSM 850	0.237	0.311	0.091	0.375	0.219	0.767	0.547	0.831	No
	GPRS 850	0.228	0.311	0.091	0.375	0.219	0.758	0.538	0.822	No
	GSM 1900	0.120	0.311	0.091	0.375	0.219	0.650	0.430	0.714	No
	GPRS 1900	0.165	0.311	0.091	0.375	0.219	0.695	0.475	0.759	No
	UMTS 850	0.235	0.311	0.091	0.375	0.219	0.765	0.545	0.829	No
	UMTS 1700	0.153	0.311	0.091	0.375	0.219	0.683	0.463	0.747	No
	UMTS 1900	0.160	0.311	0.091	0.375	0.219	0.690	0.470	0.754	No
	LTE Band 7	0.131	0.311	0.091	0.375	0.219	0.661	0.441	0.725	No
	LTE Band 12	0.198	0.311	0.091	0.375	0.219	0.728	0.508	0.792	No
	LTE Band 13	0.241	0.311	0.091	0.375	0.219	0.771	0.551	0.835	No
	LTE Band 14	0.230	0.311	0.091	0.375	0.219	0.760	0.540	0.824	No
	LTE Band 25	0.195	0.311	0.091	0.375	0.219	0.725	0.505	0.789	No
	LTE Band 26 (5)	0.306	0.311	0.091	0.375	0.219	0.836	0.616	0.900	No
	LTE Band 30	0.114	0.311	0.091	0.375	0.219	0.644	0.424	0.708	No
	LTE Band 40 Low	0.005	0.311	0.091	0.375	0.219	0.535	0.315	0.599	No
	LTE Band 40 Upper	0.005	0.311	0.091	0.375	0.219	0.535	0.315	0.599	No
	LTE Band 41	0.123	0.311	0.091	0.375	0.219	0.653	0.433	0.717	No
	LTE Band 48	0.618	0.311	0.091	0.375	0.219	1.148	0.928	1.212	No
	LTE Band 66	0.216	0.311	0.091	0.375	0.219	0.746	0.526	0.810	No
	LTE Band 71	0.137	0.311	0.091	0.375	0.219	0.667	0.447	0.731	No
	NR Band n5	0.253	0.311	0.091	0.375	0.219	0.783	0.563	0.847	No
	NR Band n12	0.165	0.311	0.091	0.375	0.219	0.695	0.475	0.759	No
	NR Band n25	0.171	0.311	0.091	0.375	0.219	0.701	0.481	0.765	No
	NR Band n30	0.149	0.311	0.091	0.375	0.219	0.679	0.459	0.743	No
	NR Band n41 (PC3)	0.076	0.311	0.091	0.375	0.219	0.606	0.386	0.670	No
	NR Band n41 (PC2)	0.114	0.311	0.091	0.375	0.219	0.644	0.424	0.708	No
	NR Band n66	0.104	0.311	0.091	0.375	0.219	0.634	0.414	0.698	No
	NR Band n71	0.111	0.311	0.091	0.375	0.219	0.641	0.421	0.705	No
	NR Band n77 (PC3)	0.767	0.311	0.091	0.375	0.219	1.297	1.077	1.361	No
	NR Band n77 (PC2)	0.647	0.311	0.091	0.375	0.219	1.177	0.957	1.241	No

14.2 Body-Worn SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Summation Scenario with 2.4 GHz Ant. WLAN										
Exposure condition	Distance (mm)	Band	WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	4	1+2	1+3	1+4	
Body-worn	15	EVDO BC10 (§90S)	0.382	0.227	0.048	0.120	0.609	0.430	0.502	No
		PCS CDMA/EVDO	0.904	0.227	0.048	0.120	1.131	0.952	1.024	No
		EVDO BC0 (§22H)	0.348	0.227	0.048	0.120	0.575	0.396	0.468	No
		GSM 850	0.351	0.227	0.048	0.120	0.578	0.399	0.471	No
		GPRS 850	0.358	0.227	0.048	0.120	0.585	0.406	0.478	No
		GSM 1900	0.362	0.227	0.048	0.120	0.589	0.410	0.482	No
		GPRS 1900	0.478	0.227	0.048	0.120	0.705	0.526	0.598	No
		UMTS 850	0.267	0.227	0.048	0.120	0.494	0.315	0.387	No
		UMTS 1700	0.895	0.227	0.048	0.120	1.122	0.943	1.015	No
		UMTS 1900	0.688	0.227	0.048	0.120	0.915	0.736	0.808	No
		LTE Band 7	0.589	0.227	0.048	0.120	0.816	0.637	0.709	No
		LTE Band 12	0.244	0.227	0.048	0.120	0.471	0.292	0.364	No
		LTE Band 13	0.329	0.227	0.048	0.120	0.556	0.377	0.449	No
		LTE Band 14	0.327	0.227	0.048	0.120	0.554	0.375	0.447	No
		LTE Band 25	0.672	0.227	0.048	0.120	0.899	0.720	0.792	No
		LTE Band 26 (5)	0.490	0.227	0.048	0.120	0.717	0.538	0.610	No
		LTE Band 30	0.728	0.227	0.048	0.120	0.955	0.776	0.848	No
		LTE Band 40 Low	0.044	0.227	0.048	0.120	0.271	0.092	0.164	No
		LTE Band 40 Upper	0.044	0.227	0.048	0.120	0.271	0.092	0.164	No
		LTE Band 41	0.350	0.227	0.048	0.120	0.577	0.398	0.470	No
		LTE Band 48	0.175	0.227	0.048	0.120	0.402	0.223	0.295	No
		LTE Band 66	0.461	0.227	0.048	0.120	0.688	0.509	0.581	No
		LTE Band 71	0.220	0.227	0.048	0.120	0.447	0.268	0.340	No
		NR Band n5	0.309	0.227	0.048	0.120	0.536	0.357	0.429	No
		NR Band n12	0.248	0.227	0.048	0.120	0.475	0.296	0.368	No
		NR Band n25	0.564	0.227	0.048	0.120	0.791	0.612	0.684	No
		NR Band n30	0.835	0.227	0.048	0.120	1.062	0.883	0.955	No
		NR Band n41 (PC3)	0.273	0.227	0.048	0.120	0.500	0.321	0.393	No
		NR Band n41 (PC2)	0.388	0.227	0.048	0.120	0.615	0.436	0.508	No
		NR Band n66	0.627	0.227	0.048	0.120	0.854	0.675	0.747	No
		NR Band n71	0.194	0.227	0.048	0.120	0.421	0.242	0.314	No
		NR Band n77 (PC3)	0.112	0.227	0.048	0.120	0.339	0.160	0.232	No
		NR Band n77 (PC2)	0.173	0.227	0.048	0.120	0.400	0.221	0.293	No

Simultaneous Transmission Summation Scenario with 5 GHz WLAN									
Exposure condition	Distance (mm)	Band	WWAN SAR	5 GHz WLAN Ant1 SAR	5 GHz WLAN Ant2 SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	1+2	1+3	1+2+3	
Body-worn	15	EVDO BC10 (§90S)	0.382	0.284	0.116	0.666	0.498	0.782	No
		PCS CDMA/EVDO	0.904	0.284	0.116	1.188	1.020	1.304	No
		EVDO BC0 (§22H)	0.348	0.284	0.116	0.632	0.464	0.748	No
		GSM 850	0.351	0.284	0.116	0.635	0.467	0.751	No
		GPRS 850	0.358	0.284	0.116	0.642	0.474	0.758	No
		GSM 1900	0.362	0.284	0.116	0.646	0.478	0.762	No
		GPRS 1900	0.478	0.284	0.116	0.762	0.594	0.878	No
		UMTS 850	0.267	0.284	0.116	0.551	0.383	0.667	No
		UMTS 1700	0.895	0.284	0.116	1.179	1.011	1.295	No
		UMTS 1900	0.688	0.284	0.116	0.972	0.804	1.088	No
		LTE Band 7	0.589	0.284	0.116	0.873	0.705	0.989	No
		LTE Band 12	0.244	0.284	0.116	0.528	0.360	0.644	No
		LTE Band 13	0.329	0.284	0.116	0.613	0.445	0.729	No
		LTE Band 14	0.327	0.284	0.116	0.611	0.443	0.727	No
		LTE Band 25	0.672	0.284	0.116	0.956	0.788	1.072	No
		LTE Band 26 (5)	0.490	0.284	0.116	0.774	0.606	0.890	No
		LTE Band 30	0.728	0.284	0.116	1.012	0.844	1.128	No
		LTE Band 40 Low	0.044	0.284	0.116	0.328	0.160	0.444	No
		LTE Band 40 Upper	0.044	0.284	0.116	0.328	0.160	0.444	No
		LTE Band 41	0.350	0.284	0.116	0.634	0.466	0.750	No
		LTE Band 48	0.175	0.284	0.116	0.459	0.291	0.575	No
		LTE Band 66	0.461	0.284	0.116	0.745	0.577	0.861	No
		LTE Band 71	0.220	0.284	0.116	0.504	0.336	0.620	No
		NR Band n5	0.309	0.284	0.116	0.593	0.425	0.709	No
		NR Band n12	0.248	0.284	0.116	0.532	0.364	0.648	No
		NR Band n25	0.564	0.284	0.116	0.848	0.680	0.964	No
		NR Band n30	0.835	0.284	0.116	1.119	0.951	1.235	No
		NR Band n41 (PC3)	0.273	0.284	0.116	0.557	0.389	0.673	No
		NR Band n41 (PC2)	0.388	0.284	0.116	0.672	0.504	0.788	No
		NR Band n66	0.627	0.284	0.116	0.911	0.743	1.027	No
		NR Band n71	0.194	0.284	0.116	0.478	0.310	0.594	No
		NR Band n77(PC3)	0.112	0.284	0.116	0.396	0.228	0.512	No
		NR Band n77(PC2)	0.173	0.284	0.116	0.457	0.289	0.573	No

Simultaneous Transmission Summation Scenario with 5 GHz WLAN & Bluetooth								
Exposure condition	Distance (mm)	Band	WWAN SAR	5 GHz WLAN Ant.1 SAR	5 GHz WLAN Ant.2 SAR	Bluetooth SAR	$\sum$ 1-g SAR	SPLSR
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	4	1+2+3+4	
Body-worn	15	EVDO BC10 (\$90S)	0.382	0.284	0.116	0.058	0.840	No
		PCS CDMA/EVDO	0.904	0.284	0.116	0.058	1.304	No
		EVDO BC0 (\$22H)	0.348	0.284	0.116	0.058	0.748	No
		GSM 850	0.351	0.284	0.116	0.058	0.751	No
		GPRS 850	0.358	0.284	0.116	0.058	0.758	No
		GSM 1900	0.362	0.284	0.116	0.058	0.762	No
		GPRS 1900	0.478	0.284	0.116	0.058	0.878	No
		UMTS 850	0.267	0.284	0.116	0.058	0.667	No
		UMTS 1700	0.895	0.284	0.116	0.058	1.295	No
		UMTS 1900	0.688	0.284	0.116	0.058	1.088	No
		LTE Band 7	0.589	0.284	0.116	0.058	0.989	No
		LTE Band 12	0.244	0.284	0.116	0.058	0.644	No
		LTE Band 13	0.329	0.284	0.116	0.058	0.729	No
		LTE Band 14	0.327	0.284	0.116	0.058	0.727	No
		LTE Band 25	0.672	0.284	0.116	0.058	1.072	No
		LTE Band 26 (5)	0.490	0.284	0.116	0.058	0.890	No
		LTE Band 30	0.728	0.284	0.116	0.058	1.128	No
		LTE Band 40 Low	0.044	0.284	0.116	0.058	0.444	No
		LTE Band 40 Upper	0.044	0.284	0.116	0.058	0.444	No
		LTE Band 41	0.350	0.284	0.116	0.058	0.750	No
		LTE Band 48	0.175	0.284	0.116	0.058	0.575	No
		LTE Band 66	0.461	0.284	0.116	0.058	0.861	No
		LTE Band 71	0.220	0.284	0.116	0.058	0.620	No
		NR Band n5	0.309	0.284	0.116	0.058	0.709	No
		NR Band n12	0.248	0.284	0.116	0.058	0.648	No
		NR Band n25	0.564	0.284	0.116	0.058	0.964	No
		NR Band n30	0.835	0.284	0.116	0.058	1.235	No
		NR Band n41 (PC3)	0.273	0.284	0.116	0.058	0.673	No
		NR Band n41 (PC2)	0.388	0.284	0.116	0.058	0.788	No
		NR Band n66	0.627	0.284	0.116	0.058	1.027	No
		NR Band n71	0.194	0.284	0.116	0.058	0.594	No
		NR Band n77 (PC3)	0.112	0.284	0.116	0.058	0.512	No
		NR Band n77 (PC2)	0.173	0.284	0.116	0.058	0.573	No

Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN & 5 GHz WLAN

Exposure condition	Distance (mm)	Band	WWAN SAR	2.4 GHz WLAN Ant.1	2.4 GHz WLAN Ant.2	2.4 GHz WLAN MIMO	5 GHz WLAN RSDB Ant.1	5 GHz WLAN RSDB Ant.2	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR (Yes/No)
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
			1	2	3	4	5	6	1+2+5+6	1+3+5+6	1+4+5+6	
Body-worn	15	EVDO BC10 (§90S)	0.382	0.104	0.011	0.009	0.110	0.034	0.630	0.537	0.535	No
		PCS CDMA/EVDO	0.904	0.104	0.011	0.009	0.110	0.034	1.152	1.059	1.057	No
		EVDO BC0 (§22H)	0.348	0.104	0.011	0.009	0.110	0.034	0.596	0.503	0.501	No
		GSM 850	0.351	0.104	0.011	0.009	0.110	0.034	0.599	0.506	0.504	No
		GPRS 850	0.358	0.104	0.011	0.009	0.110	0.034	0.606	0.513	0.511	No
		GSM 1900	0.362	0.104	0.011	0.009	0.110	0.034	0.610	0.517	0.515	No
		GPRS 1900	0.478	0.104	0.011	0.009	0.110	0.034	0.726	0.633	0.631	No
		UMTS 850	0.267	0.104	0.011	0.009	0.110	0.034	0.515	0.422	0.420	No
		UMTS 1700	0.895	0.104	0.011	0.009	0.110	0.034	1.143	1.050	1.048	No
		UMTS 1900	0.688	0.104	0.011	0.009	0.110	0.034	0.936	0.843	0.841	No
		LTE Band 7	0.589	0.104	0.011	0.009	0.110	0.034	0.837	0.744	0.742	No
		LTE Band 12	0.244	0.104	0.011	0.009	0.110	0.034	0.492	0.399	0.397	No
		LTE Band 13	0.329	0.104	0.011	0.009	0.110	0.034	0.577	0.484	0.482	No
		LTE Band 14	0.327	0.104	0.011	0.009	0.110	0.034	0.575	0.482	0.480	No
		LTE Band 25	0.672	0.104	0.011	0.009	0.110	0.034	0.920	0.827	0.825	No
		LTE Band 26 (5)	0.490	0.104	0.011	0.009	0.110	0.034	0.738	0.645	0.643	No
		LTE Band 30	0.728	0.104	0.011	0.009	0.110	0.034	0.976	0.883	0.881	No
		LTE Band 40 Low	0.044	0.104	0.011	0.009	0.110	0.034	0.292	0.199	0.197	No
		LTE Band 40 Upper	0.044	0.104	0.011	0.009	0.110	0.034	0.292	0.199	0.197	No
		LTE Band 41	0.350	0.104	0.011	0.009	0.110	0.034	0.598	0.505	0.503	No
		LTE Band 48	0.175	0.104	0.011	0.009	0.110	0.034	0.423	0.330	0.328	No
		LTE Band 66	0.461	0.104	0.011	0.009	0.110	0.034	0.709	0.616	0.614	No
		LTE Band 71	0.220	0.104	0.011	0.009	0.110	0.034	0.468	0.375	0.373	No
		NR Band n5	0.309	0.104	0.011	0.009	0.110	0.034	0.557	0.464	0.462	No
		NR Band n12	0.248	0.104	0.011	0.009	0.110	0.034	0.496	0.403	0.401	No
		NR Band n25	0.564	0.104	0.011	0.009	0.110	0.034	0.812	0.719	0.717	No
		NR Band n30	0.835	0.104	0.011	0.009	0.110	0.034	1.083	0.990	0.988	No
		NR Band n41 (PC3)	0.273	0.104	0.011	0.009	0.110	0.034	0.521	0.428	0.426	No
		NR Band n41 (PC2)	0.388	0.104	0.011	0.009	0.110	0.034	0.636	0.543	0.541	No
		NR Band n66	0.627	0.104	0.011	0.009	0.110	0.034	0.875	0.782	0.780	No
		NR Band n71	0.194	0.104	0.011	0.009	0.110	0.034	0.442	0.349	0.347	No
		NR Band n77 (PC3)	0.112	0.104	0.011	0.009	0.110	0.034	0.360	0.267	0.265	No
		NR Band n77 (PC2)	0.173	0.104	0.011	0.009	0.110	0.034	0.421	0.328	0.326	No

14.3 Hotspot SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Scenario with 2.4 GHz WLAN (10mm)									
Band		WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	
EVDO BC0 (§22H)	Rear	0.788	0.711	0.101	0.198	1.499	0.889	0.986	No
	Front	0.551	0.406	0.076	0.176	0.957	0.627	0.727	No
	Left	0.076	0.062	0.137	0.124	0.138	0.213	0.200	No
	Right	0.273				0.273	0.273	0.273	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.360				0.360	0.360	0.360	No
PCS CDMA	Rear	0.413	0.711	0.101	0.198	1.124	0.514	0.611	No
	Front	0.420	0.406	0.076	0.176	0.826	0.496	0.596	No
	Left	0.112	0.062	0.137	0.124	0.174	0.249	0.236	No
	Right	0.044				0.044	0.044	0.044	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	1.042				1.042	1.042	1.042	No
EVDO BC10 (§90S)	Rear	0.735	0.711	0.101	0.198	1.446	0.836	0.933	No
	Front	0.534	0.406	0.076	0.176	0.940	0.610	0.710	No
	Left	0.107	0.062	0.137	0.124	0.169	0.244	0.231	No
	Right	0.330				0.330	0.330	0.330	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.348				0.348	0.348	0.348	No
GPRS 850	Rear	0.699	0.711	0.101	0.198	1.410	0.800	0.897	No
	Front	0.549	0.406	0.076	0.176	0.955	0.625	0.725	No
	Left	0.125	0.062	0.137	0.124	0.187	0.262	0.249	No
	Right	0.349				0.349	0.349	0.349	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.409				0.409	0.409	0.409	No
GPRS 1900	Rear	0.359	0.711	0.101	0.198	1.070	0.460	0.557	No
	Front	0.330	0.406	0.076	0.176	0.736	0.406	0.506	No
	Left	0.083	0.062	0.137	0.124	0.145	0.220	0.207	No
	Right	0.058				0.058	0.058	0.058	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.702				0.702	0.702	0.702	No
UMTS 850	Rear	0.739	0.711	0.101	0.198	1.450	0.840	0.937	No
	Front	0.525	0.406	0.076	0.176	0.931	0.601	0.701	No
	Left	0.150	0.062	0.137	0.124	0.212	0.287	0.274	No
	Right	0.252				0.252	0.252	0.252	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.357				0.357	0.357	0.357	No
UMTS 1700	Rear	0.354	0.711	0.101	0.198	1.065	0.455	0.552	No
	Front	0.359	0.406	0.076	0.176	0.765	0.435	0.535	No
	Left	0.051	0.062	0.137	0.124	0.113	0.188	0.175	No
	Right	0.090				0.090	0.090	0.090	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.738				0.738	0.738	0.738	No

Simultaneous Transmission Scenario with 2.4 GHz WLAN(10mm)									
Band		WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	
UMTS 1900	Rear	0.319	0.711	0.101	0.198	1.030	0.420	0.517	No
	Front	0.312	0.406	0.076	0.176	0.718	0.388	0.488	No
	Left	0.065	0.062	0.137	0.124	0.127	0.202	0.189	No
	Right	0.052				0.052	0.052	0.052	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.777				0.777	0.777	0.777	No
LTE Band 7	Rear	0.377	0.711	0.101	0.198	1.088	0.478	0.575	No
	Front	0.425	0.406	0.076	0.176	0.831	0.501	0.601	No
	Left	0.132	0.062	0.137	0.124	0.194	0.269	0.256	No
	Right								No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.944				0.944	0.944	0.944	No
LTE Band 12	Rear	0.457	0.711	0.101	0.198	1.168	0.558	0.655	No
	Front	0.334	0.406	0.076	0.176	0.740	0.410	0.510	No
	Left	0.105	0.062	0.137	0.124	0.167	0.242	0.229	No
	Right	0.292				0.292	0.292	0.292	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.367				0.367	0.367	0.367	No
LTE Band 13	Rear	0.571	0.711	0.101	0.198	1.282	0.672	0.769	No
	Front	0.391	0.406	0.076	0.176	0.797	0.467	0.567	No
	Left	0.165	0.062	0.137	0.124	0.227	0.302	0.289	No
	Right	0.396				0.396	0.396	0.396	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.385				0.385	0.385	0.385	No
LTE Band 14	Rear	0.583	0.711	0.101	0.198	1.294	0.684	0.781	No
	Front	0.395	0.406	0.076	0.176	0.801	0.471	0.571	No
	Left	0.192	0.062	0.137	0.124	0.254	0.329	0.316	No
	Right	0.397				0.397	0.397	0.397	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.400				0.400	0.400	0.400	No
LTE Band 25	Rear	0.368	0.711	0.101	0.198	1.079	0.469	0.566	No
	Front	0.306	0.406	0.076	0.176	0.712	0.382	0.482	No
	Left	0.129	0.062	0.137	0.124	0.191	0.266	0.253	No
	Right	0.096				0.096	0.096	0.096	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	1.019				1.019	1.019	1.019	No
LTE Band 26 (5)	Rear	0.822	0.711	0.101	0.198	1.533	0.923	1.020	No
	Front	0.510	0.406	0.076	0.176	0.916	0.586	0.686	No
	Left	0.131	0.062	0.137	0.124	0.193	0.268	0.255	No
	Right	0.368				0.368	0.368	0.368	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.519				0.519	0.519	0.519	No

Simultaneous Transmission Scenario with 2.4 GHz WLAN(10mm)									
Band		WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	
LTE Band 30	Rear	0.480	0.711	0.101	0.198	1.191	0.581	0.678	No
	Front	0.556	0.406	0.076	0.176	0.962	0.632	0.732	No
	Left	0.070	0.062	0.137	0.124	0.132	0.207	0.194	No
	Right								No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	1.075				1.075	1.075	1.075	No
LTE Band 40 Low	Rear	0.085	0.711	0.101	0.198	0.796	0.186	0.283	No
	Front	0.087	0.406	0.076	0.176	0.493	0.163	0.263	No
	Left	0.013	0.062	0.137	0.124	0.075	0.150	0.137	No
	Right								No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.162				0.162	0.162	0.162	No
LTE Band 40 Upper	Rear	0.074	0.711	0.101	0.198	0.785	0.175	0.272	No
	Front	0.040	0.406	0.076	0.176	0.446	0.116	0.216	No
	Left	0.015	0.062	0.137	0.124	0.077	0.152	0.139	No
	Right								No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.209				0.209	0.209	0.209	No
LTE Band 41	Rear	0.231	0.711	0.101	0.198	0.942	0.332	0.429	No
	Front	0.294	0.406	0.076	0.176	0.700	0.370	0.470	No
	Left	0.076	0.062	0.137	0.124	0.138	0.213	0.200	No
	Right								No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.575				0.575	0.575	0.575	No
LTE Band 48	Rear	0.161	0.711	0.101	0.198	0.872	0.262	0.359	No
	Front	0.125	0.406	0.076	0.176	0.531	0.201	0.301	No
	Left	0.284	0.062	0.137	0.124	0.346	0.421	0.408	No
	Right								No
	Top	0.233	0.864	0.031	0.439	1.097	0.264	0.672	No
	Bottom								No
LTE Band 66	Rear	0.422	0.711	0.101	0.198	1.133	0.523	0.620	No
	Front	0.404	0.406	0.076	0.176	0.810	0.480	0.580	No
	Left	0.081	0.062	0.137	0.124	0.143	0.218	0.205	No
	Right	0.086				0.086	0.086	0.086	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	1.009				1.009	1.009	1.009	No
LTE Band 71	Rear	0.382	0.711	0.101	0.198	1.093	0.483	0.580	No
	Front	0.227	0.406	0.076	0.176	0.633	0.303	0.403	No
	Left	0.102	0.062	0.137	0.124	0.164	0.239	0.226	No
	Right	0.272				0.272	0.272	0.272	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.237				0.237	0.237	0.237	No

Simultaneous Transmission Scenario with 2.4 GHz WLAN(10mm)									
Band		WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	
NR Band n5	Rear	0.488	0.711	0.101	0.198	1.199	0.589	0.686	No
	Front	0.388	0.406	0.076	0.176	0.794	0.464	0.564	No
	Left	0.065	0.062	0.137	0.124	0.127	0.202	0.189	No
	Right	0.263				0.263	0.263	0.263	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.307				0.307	0.307	0.307	No
NR Band n12	Rear	0.563	0.711	0.101	0.198	1.274	0.664	0.761	No
	Front	0.487	0.406	0.076	0.176	0.893	0.563	0.663	No
	Left	0.250	0.062	0.137	0.124	0.312	0.387	0.374	No
	Right	0.307				0.307	0.307	0.307	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.444				0.444	0.444	0.444	No
NR Band n25	Rear	0.321	0.711	0.101	0.198	1.032	0.422	0.519	No
	Front	0.309	0.406	0.076	0.176	0.715	0.385	0.485	No
	Left	0.052	0.062	0.137	0.124	0.114	0.189	0.176	No
	Right	0.044				0.044	0.044	0.044	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.925				0.925	0.925	0.925	No
NR Band n30	Rear	0.394	0.711	0.101	0.198	1.105	0.495	0.592	No
	Front	0.378	0.406	0.076	0.176	0.784	0.454	0.554	No
	Left	0.079	0.062	0.137	0.124	0.141	0.216	0.203	No
	Right								No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	1.088				1.088	1.088	1.088	No
NR Band n41 (PC3)	Rear	0.414	0.711	0.101	0.198	1.125	0.515	0.612	No
	Front	0.404	0.406	0.076	0.176	0.810	0.480	0.580	No
	Left	0.234	0.062	0.137	0.124	0.296	0.371	0.358	No
	Right					0.000	0.000	0.000	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.823				0.823	0.823	0.823	No
NR Band n41 (PC2)	Rear	0.322	0.711	0.101	0.198	1.033	0.423	0.520	No
	Front	0.330	0.406	0.076	0.176	0.736	0.406	0.506	No
	Left	0.200	0.062	0.137	0.124	0.262	0.337	0.324	No
	Right								No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.735				0.735	0.735	0.735	No

Simultaneous Transmission Scenario with 2.4 GHz WLAN(10mm)									
Band		WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	
NR Band n66	Rear	0.707	0.711	0.101	0.198	1.418	0.808	0.905	No
	Front	0.631	0.406	0.076	0.176	1.037	0.707	0.807	No
	Left	0.080	0.062	0.137	0.124	0.142	0.217	0.204	No
	Right	0.112				0.112	0.112	0.112	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	1.031				1.031	1.031	1.031	No
NR Band n71	Rear	0.405	0.711	0.101	0.198	1.116	0.506	0.603	No
	Front	0.303	0.406	0.076	0.176	0.709	0.379	0.479	No
	Left	0.205	0.062	0.137	0.124	0.267	0.342	0.329	No
	Right	0.277				0.277	0.277	0.277	No
	Top		0.864	0.031	0.439	0.864	0.031	0.439	No
	Bottom	0.246				0.246	0.246	0.246	No
NR Band n77 (PC3)	Rear	0.247	0.711	0.101	0.198	0.958	0.348	0.445	No
	Front	0.282	0.406	0.076	0.176	0.688	0.358	0.458	No
	Left	0.347	0.062	0.137	0.124	0.409	0.484	0.471	No
	Right								No
	Top	0.251	0.864	0.031	0.439	1.115	0.282	0.690	No
	Bottom								No
NR Band n77 (PC2)	Rear	0.397	0.711	0.101	0.198	1.108	0.498	0.595	No
	Front	0.283	0.406	0.076	0.176	0.689	0.359	0.459	No
	Left	0.523	0.062	0.137	0.124	0.585	0.660	0.647	No
	Right								No
	Top	0.320	0.864	0.031	0.439	1.184	0.351	0.759	No
	Bottom								No

Simultaneous Transmission Scenario with 5 GHz WLAN (10mm)								
Band		WWAN SAR	5 GHz WLAN Ant.1 SAR	5 GHz WLAN Ant.2 SAR	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	1+2	1+3	1+2+3	
EVDO BC0 (§22H)	Rear	0.788	0.468	0.033	1.256	0.821	1.289	No
	Front	0.551	0.196	0.030	0.747	0.581	0.777	No
	Left	0.076	0.557	0.059	0.633	0.135	0.692	No
	Right	0.273			0.273	0.273	0.273	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.360			0.360	0.360	0.360	No
PCS CDMA	Rear	0.413	0.468	0.033	0.881	0.446	0.914	No
	Front	0.420	0.196	0.030	0.616	0.450	0.646	No
	Left	0.112	0.557	0.059	0.669	0.171	0.728	No
	Right	0.044			0.044	0.044	0.044	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	1.042			1.042	1.042	1.042	No
EVDO BC10 (§90S)	Rear	0.735	0.468	0.033	1.203	0.768	1.236	No
	Front	0.534	0.196	0.030	0.730	0.564	0.760	No
	Left	0.107	0.557	0.059	0.664	0.166	0.723	No
	Right	0.330			0.330	0.330	0.330	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.348			0.348	0.348	0.348	No
GPRS 850	Rear	0.699	0.468	0.033	1.167	0.732	1.200	No
	Front	0.549	0.196	0.030	0.745	0.579	0.775	No
	Left	0.125	0.557	0.059	0.682	0.184	0.741	No
	Right	0.349			0.349	0.349	0.349	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.409			0.409	0.409	0.409	No
GPRS 1900	Rear	0.359	0.468	0.033	0.827	0.392	0.860	No
	Front	0.330	0.196	0.030	0.526	0.360	0.556	No
	Left	0.083	0.557	0.059	0.640	0.142	0.699	No
	Right	0.058			0.058	0.058	0.058	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.702			0.702	0.702	0.702	No
UMTS 850	Rear	0.739	0.468	0.033	1.207	0.772	1.240	No
	Front	0.525	0.196	0.030	0.721	0.555	0.751	No
	Left	0.150	0.557	0.059	0.707	0.209	0.766	No
	Right	0.252			0.252	0.252	0.252	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.357			0.357	0.357	0.357	No
UMTS 1700	Rear	0.354	0.468	0.033	0.822	0.387	0.855	No
	Front	0.359	0.196	0.030	0.555	0.389	0.585	No
	Left	0.051	0.557	0.059	0.608	0.110	0.667	No
	Right	0.090			0.090	0.090	0.090	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.738			0.738	0.738	0.738	No

Simultaneous Transmission Scenario with 5 GHz WLAN(10mm)								
Band		WWAN SAR	5 GHz WLAN Ant.1 SAR	5 GHz WLAN Ant.2 SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	1+2	1+3	1+2+3	
UMTS 1900	Rear	0.319	0.468	0.033	0.787	0.352	0.820	No
	Front	0.312	0.196	0.030	0.508	0.342	0.538	No
	Left	0.065	0.557	0.059	0.622	0.124	0.681	No
	Right	0.052			0.052	0.052	0.052	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.777			0.777	0.777	0.777	No
LTE Band 7	Rear	0.377	0.468	0.033	0.845	0.410	0.878	No
	Front	0.425	0.196	0.030	0.621	0.455	0.651	No
	Left	0.132	0.557	0.059	0.689	0.191	0.748	No
	Right							No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.944			0.944	0.944	0.944	No
LTE Band 12	Rear	0.457	0.468	0.033	0.925	0.490	0.958	No
	Front	0.334	0.196	0.030	0.530	0.364	0.560	No
	Left	0.105	0.557	0.059	0.662	0.164	0.721	No
	Right	0.292			0.292	0.292	0.292	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.367			0.367	0.367	0.367	No
LTE Band 13	Rear	0.571	0.468	0.033	1.039	0.604	1.072	No
	Front	0.391	0.196	0.030	0.587	0.421	0.617	No
	Left	0.165	0.557	0.059	0.722	0.224	0.781	No
	Right	0.396			0.396	0.396	0.396	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.385			0.385	0.385	0.385	No
LTE Band 14	Rear	0.583	0.468	0.033	1.051	0.616	1.084	No
	Front	0.395	0.196	0.030	0.591	0.425	0.621	No
	Left	0.192	0.557	0.059	0.749	0.251	0.808	No
	Right	0.397			0.397	0.397	0.397	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.400			0.400	0.400	0.400	No
LTE Band 25	Rear	0.368	0.468	0.033	0.836	0.401	0.869	No
	Front	0.306	0.196	0.030	0.502	0.336	0.532	No
	Left	0.129	0.557	0.059	0.686	0.188	0.745	No
	Right	0.096			0.096	0.096	0.096	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	1.019			1.019	1.019	1.019	No
LTE Band 26 (5)	Rear	0.822	0.468	0.033	1.290	0.855	1.323	No
	Front	0.510	0.196	0.030	0.706	0.540	0.736	No
	Left	0.131	0.557	0.059	0.688	0.190	0.747	No
	Right	0.368			0.368	0.368	0.368	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.519			0.519	0.519	0.519	No

Simultaneous Transmission Scenario with 5 GHz WLAN(10mm)								
Band		WWAN SAR	5 GHz WLAN Ant.1 SAR	5 GHz WLAN Ant.2 SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	1+2	1+3	1+2+3	
LTE Band 30	Rear	0.480	0.468	0.033	0.948	0.513	0.981	No
	Front	0.556	0.196	0.030	0.752	0.586	0.782	No
	Left	0.070	0.557	0.059	0.627	0.129	0.686	No
	Right							No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	1.075			1.075	1.075	1.075	No
LTE Band 40 Low	Rear	0.085	0.468	0.033	0.553	0.118	0.586	No
	Front	0.087	0.196	0.030	0.283	0.117	0.313	No
	Left	0.013	0.557	0.059	0.570	0.072	0.629	No
	Right							No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.162			0.162	0.162	0.162	No
LTE Band 40 Upper	Rear	0.074	0.468	0.033	0.542	0.107	0.575	No
	Front	0.040	0.196	0.030	0.236	0.070	0.266	No
	Left	0.015	0.557	0.059	0.572	0.074	0.631	No
	Right							No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.209			0.209	0.209	0.209	No
LTE Band 41	Rear	0.231	0.468	0.033	0.699	0.264	0.732	No
	Front	0.294	0.196	0.030	0.490	0.324	0.520	No
	Left	0.076	0.557	0.059	0.633	0.135	0.692	No
	Right							No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.575			0.575	0.575	0.575	No
LTE Band 48	Rear	0.161	0.468	0.033	0.629	0.194	0.662	No
	Front	0.125	0.196	0.030	0.321	0.155	0.351	No
	Left	0.284	0.557	0.059	0.841	0.343	0.900	No
	Right							No
	Top	0.233	0.318	0.021	0.551	0.254	0.572	No
	Bottom							No
LTE Band 66	Rear	0.422	0.468	0.033	0.890	0.455	0.923	No
	Front	0.404	0.196	0.030	0.600	0.434	0.630	No
	Left	0.081	0.557	0.059	0.638	0.140	0.697	No
	Right	0.086			0.086	0.086	0.086	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	1.009			1.009	1.009	1.009	No
LTE Band 71	Rear	0.382	0.468	0.033	0.850	0.415	0.883	No
	Front	0.227	0.196	0.030	0.423	0.257	0.453	No
	Left	0.102	0.557	0.059	0.659	0.161	0.718	No
	Right	0.272			0.272	0.272	0.272	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.237			0.237	0.237	0.237	No

Simultaneous Transmission Scenario with 5 GHz WLAN(10mm)								
Band		WWAN SAR	5 GHz WLAN Ant.1 SAR	5 GHz WLAN Ant.2 SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	1+2	1+3	1+2+3	
NR Band n5	Rear	0.488	0.468	0.033	0.956	0.521	0.989	No
	Front	0.388	0.196	0.030	0.584	0.418	0.614	No
	Left	0.065	0.557	0.059	0.622	0.124	0.681	No
	Right	0.263			0.263	0.263	0.263	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.307			0.307	0.307	0.307	No
NR Band n12	Rear	0.563	0.468	0.033	1.031	0.596	1.064	No
	Front	0.487	0.196	0.030	0.683	0.517	0.713	No
	Left	0.250	0.557	0.059	0.807	0.309	0.866	No
	Right	0.307			0.307	0.307	0.307	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.444			0.444	0.444	0.444	No
NR Band n25	Rear	0.321	0.468	0.033	0.789	0.354	0.822	No
	Front	0.309	0.196	0.030	0.505	0.339	0.535	No
	Left	0.052	0.557	0.059	0.609	0.111	0.668	No
	Right	0.044			0.044	0.044	0.044	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.925			0.925	0.925	0.925	No
NR Band n30	Rear	0.394	0.468	0.033	0.862	0.427	0.895	No
	Front	0.378	0.196	0.030	0.574	0.408	0.604	No
	Left	0.079	0.557	0.059	0.636	0.138	0.695	No
	Right							No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	1.088			1.088	1.088	1.088	No
NR Band n41 (PC3)	Rear	0.414	0.468	0.033	0.882	0.447	0.915	No
	Front	0.404	0.196	0.030	0.600	0.434	0.630	No
	Left	0.234	0.557	0.059	0.791	0.293	0.850	No
	Right							No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.823			0.823	0.823	0.823	No
NR Band n41 (PC2)	Rear	0.322	0.468	0.033	0.790	0.355	0.823	No
	Front	0.330	0.196	0.030	0.526	0.360	0.556	No
	Left	0.200	0.557	0.059	0.757	0.259	0.816	No
	Right							No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.735			0.735	0.735	0.735	No

Simultaneous Transmission Scenario with 5 GHz WLAN(10mm)								
Band		WWAN SAR	5 GHz WLAN Ant.1 SAR	5 GHz WLAN Ant.2 SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	1+2	1+3	1+2+3	
NR Band n66	Rear	0.707	0.468	0.033	1.175	0.740	1.208	No
	Front	0.631	0.196	0.030	0.827	0.661	0.857	No
	Left	0.080	0.557	0.059	0.637	0.139	0.696	No
	Right	0.112			0.112	0.112	0.112	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	1.031			1.031	1.031	1.031	No
NR Band n71	Rear	0.405	0.468	0.033	0.873	0.438	0.906	No
	Front	0.303	0.196	0.030	0.499	0.333	0.529	No
	Left	0.205	0.557	0.059	0.762	0.264	0.821	No
	Right	0.277			0.277	0.277	0.277	No
	Top		0.318	0.021	0.318	0.021	0.339	No
	Bottom	0.246			0.246	0.246	0.246	No
NR Band n77 (PC3)	Rear	0.247	0.468	0.033	0.715	0.280	0.748	No
	Front	0.282	0.196	0.030	0.478	0.312	0.508	No
	Left	0.347	0.557	0.059	0.904	0.406	0.963	No
	Right							No
	Top	0.251	0.318	0.021	0.569	0.272	0.590	No
	Bottom							No
NR Band n77 (PC2)	Rear	0.397	0.468	0.033	0.865	0.430	0.898	No
	Front	0.283	0.196	0.030	0.479	0.313	0.509	No
	Left	0.523	0.557	0.059	1.080	0.582	1.139	No
	Right							No
	Top	0.320	0.318	0.021	0.638	0.341	0.659	No
	Bottom							No

Simultaneous Transmission Scenario with 5 GHz MIMO WLAN & Bluetooth (10mm)							
Band		WWAN SAR (W/kg)	5GHz WLAN Ant1 SAR	5GHz WLAN Ant2 SAR	Bluetooth SAR	$\sum$ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2+3+4	(Yes/No)
EVDO BC0 (\$22H)	Rear	0.788	0.468	0.033	0.155	1.444	No
	Front	0.551	0.196	0.030	0.076	0.853	No
	Left	0.076	0.557	0.059	0.016	0.708	No
	Right	0.273				0.273	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.360				0.360	No
PCS CDMA	Rear	0.413	0.468	0.033	0.155	1.069	No
	Front	0.420	0.196	0.030	0.076	0.722	No
	Left	0.112	0.557	0.059	0.016	0.744	No
	Right	0.044				0.044	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	1.042				1.042	No
EVDO BC10 (\$90S)	Rear	0.735	0.468	0.033	0.155	1.391	No
	Front	0.534	0.196	0.030	0.076	0.836	No
	Left	0.107	0.557	0.059	0.016	0.739	No
	Right	0.330				0.330	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.348				0.348	No
GPRS 850	Rear	0.699	0.468	0.033	0.155	1.355	No
	Front	0.549	0.196	0.030	0.076	0.851	No
	Left	0.125	0.557	0.059	0.016	0.757	No
	Right	0.349				0.349	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.409				0.409	No
GPRS 1900	Rear	0.359	0.468	0.033	0.155	1.015	No
	Front	0.330	0.196	0.030	0.076	0.632	No
	Left	0.083	0.557	0.059	0.016	0.715	No
	Right	0.058				0.058	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.702				0.702	No
UMTS 850	Rear	0.739	0.468	0.033	0.155	1.395	No
	Front	0.525	0.196	0.030	0.076	0.827	No
	Left	0.150	0.557	0.059	0.016	0.782	No
	Right	0.252				0.252	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.357				0.357	No
UMTS 1700	Rear	0.354	0.468	0.033	0.155	1.010	No
	Front	0.359	0.196	0.030	0.076	0.661	No
	Left	0.051	0.557	0.059	0.016	0.683	No
	Right	0.090				0.090	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.738				0.738	No
UMTS 1900	Rear	0.319	0.468	0.033	0.155	0.975	No
	Front	0.312	0.196	0.030	0.076	0.614	No
	Left	0.065	0.557	0.059	0.016	0.697	No
	Right	0.052				0.052	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.777				0.777	No

Simultaneous Transmission Scenario with 5 GHz MIMO WLAN & Bluetooth (10mm)							
Band		WWAN SAR (W/kg)	5GHz WLAN Ant1 SAR	5GHz WLAN Ant2 SAR	Bluetooth SAR	$\sum$ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2+3+4	(Yes/No)
LTE Band 7	Rear	0.377	0.468	0.033	0.155	1.033	No
	Front	0.425	0.196	0.030	0.076	0.727	No
	Left	0.132	0.557	0.059	0.016	0.764	No
	Right						No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.944				0.944	No
LTE Band 12	Rear	0.457	0.468	0.033	0.155	1.113	No
	Front	0.334	0.196	0.030	0.076	0.636	No
	Left	0.105	0.557	0.059	0.016	0.737	No
	Right	0.292				0.292	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.367				0.367	No
LTE Band 13	Rear	0.571	0.468	0.033	0.155	1.227	No
	Front	0.391	0.196	0.030	0.076	0.693	No
	Left	0.165	0.557	0.059	0.016	0.797	No
	Right	0.396				0.396	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.385				0.385	No
LTE Band 14	Rear	0.583	0.468	0.033	0.155	1.239	No
	Front	0.395	0.196	0.030	0.076	0.697	No
	Left	0.192	0.557	0.059	0.016	0.824	No
	Right	0.397				0.397	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.400				0.400	No
LTE Band 25	Rear	0.368	0.468	0.033	0.155	1.024	No
	Front	0.306	0.196	0.030	0.076	0.608	No
	Left	0.129	0.557	0.059	0.016	0.761	No
	Right	0.096				0.096	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	1.019				1.019	No
LTE Band 26(5)	Rear	0.822	0.468	0.033	0.155	1.478	No
	Front	0.510	0.196	0.030	0.076	0.812	No
	Left	0.131	0.557	0.059	0.016	0.763	No
	Right	0.368				0.368	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.519				0.519	No
LTE Band 30	Rear	0.480	0.468	0.033	0.155	1.136	No
	Front	0.556	0.196	0.030	0.076	0.858	No
	Left	0.070	0.557	0.059	0.016	0.702	No
	Right						No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	1.075				1.075	No
LTE Band 40 Low	Rear	0.085	0.468	0.033	0.155	0.741	No
	Front	0.087	0.196	0.030	0.076	0.389	No
	Left	0.013	0.557	0.059	0.016	0.645	No
	Right						No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.162				0.162	No

Simultaneous Transmission Scenario with 5 GHz MIMO WLAN & Bluetooth (10mm)							
Band		WWAN SAR (W/kg)	5GHz WLAN Ant1 SAR	5GHz WLAN Ant2 SAR	Bluetooth SAR	$\sum$ 1-g SAR (W/kg)	SPLSR
		1	2	3	3	1+2+3+4	(Yes/No)
LTE Band 40 Upper	Rear	0.074	0.468	0.033	0.155	0.730	No
	Front	0.040	0.196	0.030	0.076	0.342	No
	Left	0.015	0.557	0.059	0.016	0.647	No
	Right						No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.209				0.209	No
LTE Band 41	Rear	0.231	0.468	0.033	0.155	0.887	No
	Front	0.294	0.196	0.030	0.076	0.596	No
	Left	0.076	0.557	0.059	0.016	0.708	No
	Right						No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.575				0.575	No
LTE Band 48	Rear	0.161	0.468	0.033	0.155	0.817	No
	Front	0.125	0.196	0.030	0.076	0.427	No
	Left	0.284	0.557	0.059	0.016	0.916	No
	Right						No
	Top	0.233	0.318	0.021	0.204	0.776	No
	Bottom						No
LTE Band 66	Rear	0.422	0.468	0.033	0.155	1.078	No
	Front	0.404	0.196	0.030	0.076	0.706	No
	Left	0.081	0.557	0.059	0.016	0.713	No
	Right	0.086				0.086	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	1.009				1.009	No
LTE Band 71	Rear	0.382	0.468	0.033	0.155	1.038	No
	Front	0.227	0.196	0.030	0.076	0.529	No
	Left	0.102	0.557	0.059	0.016	0.734	No
	Right	0.272				0.272	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.237				0.237	No

Simultaneous Transmission Scenario with 5 GHz MIMO WLAN & Bluetooth (10mm)							
Band		WWAN SAR (W/kg)	5GHz WLAN Ant1 SAR	5GHz WLAN Ant2 SAR	Bluetooth SAR	$\sum$ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2+3+4	(Yes/No)
NR Band n5	Rear	0.488	0.468	0.033	0.155	1.144	No
	Front	0.388	0.196	0.030	0.076	0.690	No
	Left	0.065	0.557	0.059	0.016	0.697	No
	Right	0.263				0.263	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.307				0.307	No
NR Band n12	Rear	0.563	0.468	0.033	0.155	1.219	No
	Front	0.487	0.196	0.030	0.076	0.789	No
	Left	0.250	0.557	0.059	0.016	0.882	No
	Right	0.307				0.307	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.444				0.444	No
NR Band n25	Rear	0.321	0.468	0.033	0.155	0.977	No
	Front	0.309	0.196	0.030	0.076	0.611	No
	Left	0.052	0.557	0.059	0.016	0.684	No
	Right	0.044				0.044	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.925				0.925	No
NR Band n30	Rear	0.394	0.468	0.033	0.155	1.050	No
	Front	0.378	0.196	0.030	0.076	0.680	No
	Left	0.079	0.557	0.059	0.016	0.711	No
	Right						No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	1.088				1.088	No
NR Band n41 (PC3)	Rear	0.414	0.468	0.033	0.155	1.070	No
	Front	0.404	0.196	0.030	0.076	0.706	No
	Left	0.234	0.557	0.059	0.016	0.866	No
	Right						No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.823				0.823	No
NR Band n41 (PC2)	Rear	0.322	0.468	0.033	0.155	0.978	No
	Front	0.330	0.196	0.030	0.076	0.632	No
	Left	0.200	0.557	0.059	0.016	0.832	No
	Right						No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.735				0.735	No
NR Band n66	Rear	0.707	0.468	0.033	0.155	1.363	No
	Front	0.631	0.196	0.030	0.076	0.933	No
	Left	0.080	0.557	0.059	0.016	0.712	No
	Right	0.112				0.112	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	1.031				1.031	No

Simultaneous Transmission Scenario with 5 GHz MIMO WLAN & Bluetooth (10mm)							
Band		WWAN SAR (W/kg)	5GHz WLAN Ant1 SAR	5GHz WLAN Ant2 SAR	Bluetooth SAR	$\sum$ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2+3+4	(Yes/No)
NR Band n71	Rear	0.405	0.468	0.033	0.155	1.061	No
	Front	0.303	0.196	0.030	0.076	0.605	No
	Left	0.205	0.557	0.059	0.016	0.837	No
	Right	0.277				0.277	No
	Top		0.318	0.021	0.204	0.543	No
	Bottom	0.246				0.246	No
NR Band n77 (PC3)	Rear	0.247	0.468	0.033	0.155	0.903	No
	Front	0.282	0.196	0.030	0.076	0.584	No
	Left	0.347	0.557	0.059	0.016	0.979	No
	Right						No
	Top	0.251	0.318	0.021	0.204	0.794	No
	Bottom						No
NR Band n77 (PC2)	Rear	0.397	0.468	0.033	0.155	1.053	No
	Front	0.283	0.196	0.030	0.076	0.585	No
	Left	0.523	0.557	0.059	0.016	1.155	No
	Right						No
	Top	0.320	0.318	0.021	0.204	0.863	No
	Bottom						No

Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN & 5 GHz MIMO WLAN (10mm)

Band		WWAN SAR	2.4 GHz WLAN Ant.1	2.4 GHz WLAN Ant.2	2.4 GHz WLAN MIMO	5 GHz WLAN Ant.1	5 GHz WLAN Ant.2	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	RSDB SAR	RSDB SAR	RSDB SAR	Ant.1 RSDB SAR	Ant.2 RSDB SAR	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	5	6	1+2+5+6	1+3+5+6	1+4+5+6	
EVDO BC0 (§22H)	Rear	0.788	0.225	0.023	0.188	0.187	0.021	1.221	1.019	1.184	No
	Front	0.551	0.146	0.022	0.132	0.057	0.019	0.773	0.649	0.759	No
	Left	0.076	0.046	0.030	0.112	0.277	0.053	0.452	0.436	0.518	No
	Right	0.273						0.273	0.273	0.273	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.360						0.360	0.360	0.360	No
PCS CDMA	Rear	0.413	0.225	0.023	0.188	0.187	0.021	0.846	0.644	0.809	No
	Front	0.420	0.146	0.022	0.132	0.057	0.019	0.642	0.518	0.628	No
	Left	0.112	0.046	0.030	0.112	0.277	0.053	0.488	0.472	0.554	No
	Right	0.044						0.044	0.044	0.044	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	1.042						1.042	1.042	1.042	No
EVDO BC10 (§90S)	Rear	0.735	0.225	0.023	0.188	0.187	0.021	1.168	0.966	1.131	No
	Front	0.534	0.146	0.022	0.132	0.057	0.019	0.756	0.632	0.742	No
	Left	0.107	0.046	0.030	0.112	0.277	0.053	0.483	0.467	0.549	No
	Right	0.330						0.330	0.330	0.330	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.348						0.348	0.348	0.348	No
GPRS 850	Rear	0.699	0.225	0.023	0.188	0.187	0.021	1.132	0.930	1.095	No
	Front	0.549	0.146	0.022	0.132	0.057	0.019	0.771	0.647	0.757	No
	Left	0.125	0.046	0.030	0.112	0.277	0.053	0.501	0.485	0.567	No
	Right	0.349						0.349	0.349	0.349	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.409						0.409	0.409	0.409	No
GPRS 1900	Rear	0.359	0.225	0.023	0.188	0.187	0.021	0.792	0.590	0.755	No
	Front	0.330	0.146	0.022	0.132	0.057	0.019	0.552	0.428	0.538	No
	Left	0.083	0.046	0.030	0.112	0.277	0.053	0.459	0.443	0.525	No
	Right	0.058						0.058	0.058	0.058	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.702						0.702	0.702	0.702	No
UMTS 850	Rear	0.739	0.225	0.023	0.188	0.187	0.021	1.172	0.970	1.135	No
	Front	0.525	0.146	0.022	0.132	0.057	0.019	0.747	0.623	0.733	No
	Left	0.150	0.046	0.030	0.112	0.277	0.053	0.526	0.510	0.592	No
	Right	0.252						0.252	0.252	0.252	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.357						0.357	0.357	0.357	No
UMTS 1700	Rear	0.354	0.225	0.023	0.188	0.187	0.021	0.787	0.585	0.750	No
	Front	0.359	0.146	0.022	0.132	0.057	0.019	0.581	0.457	0.567	No
	Left	0.051	0.046	0.030	0.112	0.277	0.053	0.427	0.411	0.493	No
	Right	0.090						0.090	0.090	0.090	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.738						0.738	0.738	0.738	No
UMTS 1900	Rear	0.319	0.225	0.023	0.188	0.187	0.021	0.752	0.550	0.715	No
	Front	0.312	0.146	0.022	0.132	0.057	0.019	0.534	0.410	0.520	No
	Left	0.065	0.046	0.030	0.112	0.277	0.053	0.441	0.425	0.507	No
	Right	0.052						0.052	0.052	0.052	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.777						0.777	0.777	0.777	No

Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN & 5 GHz MIMO WLAN (10mm)

Band		WWAN SAR	2.4 GHz WLAN Ant.1	2.4 GHz WLAN Ant.2	2.4 GHz WLAN MIMO	5 GHz WLAN Ant.1	5 GHz WLAN Ant.2	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		RSDB SAR	RSDB SAR	RSDB SAR	RSDB SAR	RSDB SAR	RSDB SAR	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
		1	2	3	4	5	6	1+2+5+6	1+3+5+6	1+4+5+6	
LTE Band 7	Rear	0.377	0.225	0.023	0.188	0.187	0.021	0.81	0.608	0.773	No
	Front	0.425	0.146	0.022	0.132	0.057	0.019	0.647	0.523	0.633	No
	Left	0.132	0.046	0.030	0.112	0.277	0.053	0.508	0.492	0.574	No
	Right										No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.944						0.944	0.944	0.944	No
LTE Band 12	Rear	0.457	0.225	0.023	0.188	0.187	0.021	0.89	0.688	0.853	No
	Front	0.334	0.146	0.022	0.132	0.057	0.019	0.556	0.432	0.542	No
	Left	0.105	0.046	0.030	0.112	0.277	0.053	0.481	0.465	0.547	No
	Right	0.292						0.292	0.292	0.292	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.367						0.367	0.367	0.367	No
LTE Band 13	Rear	0.571	0.225	0.023	0.188	0.187	0.021	1.004	0.802	0.967	No
	Front	0.391	0.146	0.022	0.132	0.057	0.019	0.613	0.489	0.599	No
	Left	0.165	0.046	0.030	0.112	0.277	0.053	0.541	0.525	0.607	No
	Right	0.396						0.396	0.396	0.396	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.385						0.385	0.385	0.385	No
LTE Band 14	Rear	0.583	0.225	0.023	0.188	0.187	0.021	1.016	0.814	0.979	No
	Front	0.395	0.146	0.022	0.132	0.057	0.019	0.617	0.493	0.603	No
	Left	0.192	0.046	0.030	0.112	0.277	0.053	0.568	0.552	0.634	No
	Right	0.397						0.397	0.397	0.397	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.400						0.400	0.400	0.400	No
LTE Band 25	Rear	0.368	0.225	0.023	0.188	0.187	0.021	0.801	0.599	0.764	No
	Front	0.306	0.146	0.022	0.132	0.057	0.019	0.528	0.404	0.514	No
	Left	0.129	0.046	0.030	0.112	0.277	0.053	0.505	0.489	0.571	No
	Right	0.096						0.096	0.096	0.096	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	1.019						1.019	1.019	1.019	No
LTE Band 26 (5)	Rear	0.822	0.225	0.023	0.188	0.187	0.021	1.255	1.053	1.218	No
	Front	0.510	0.146	0.022	0.132	0.057	0.019	0.732	0.608	0.718	No
	Left	0.131	0.046	0.030	0.112	0.277	0.053	0.507	0.491	0.573	No
	Right	0.368						0.368	0.368	0.368	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.519						0.519	0.519	0.519	No
LTE Band 30	Rear	0.480	0.225	0.023	0.188	0.187	0.021	0.913	0.711	0.876	No
	Front	0.556	0.146	0.022	0.132	0.057	0.019	0.778	0.654	0.764	No
	Left	0.070	0.046	0.030	0.112	0.277	0.053	0.446	0.43	0.512	No
	Right										No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	1.075						1.075	1.075	1.075	No
LTE Band 40 Low	Rear	0.085	0.225	0.023	0.188	0.187	0.021	0.518	0.316	0.481	No
	Front	0.087	0.146	0.022	0.132	0.057	0.019	0.309	0.185	0.295	No
	Left	0.013	0.046	0.030	0.112	0.277	0.053	0.389	0.373	0.455	No
	Right										No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.162						0.162	0.162	0.162	No

Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN & 5 GHz MIMO WLAN (10mm)

Band		WWAN SAR	2.4 GHz WLAN Ant.1 RSDB SAR	2.4 GHz WLAN Ant.2 RSDB SAR	2.4 GHz WLAN MIMO RSDB SAR	5 GHz WLAN Ant.1 RSDB SAR	5 GHz WLAN Ant.2 RSDB SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	5	6	1+2+5+6	1+3+5+6	1+4+5+6	
LTE Band 40 Upper	Rear	0.074	0.225	0.023	0.188	0.187	0.021	0.507	0.305	0.470	No
	Front	0.040	0.146	0.022	0.132	0.057	0.019	0.262	0.138	0.248	No
	Left	0.015	0.046	0.030	0.112	0.277	0.053	0.391	0.375	0.457	No
	Right										No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.209						0.209	0.209	0.209	No
LTE Band 41	Rear	0.231	0.225	0.023	0.188	0.187	0.021	0.664	0.462	0.627	No
	Front	0.294	0.146	0.022	0.132	0.057	0.019	0.516	0.392	0.502	No
	Left	0.076	0.046	0.030	0.112	0.277	0.053	0.452	0.436	0.518	No
	Right										No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.575						0.575	0.575	0.575	No
LTE Band 48	Rear	0.161	0.225	0.023	0.188	0.187	0.021	0.594	0.392	0.557	No
	Front	0.125	0.146	0.022	0.132	0.057	0.019	0.347	0.223	0.333	No
	Left	0.284	0.046	0.030	0.112	0.277	0.053	0.660	0.644	0.726	No
	Right										No
	Top	0.233	0.455	0.008	0.301	0.115	0.012	0.815	0.368	0.661	No
	Bottom										No
LTE Band 66	Rear	0.422	0.225	0.023	0.188	0.187	0.021	0.855	0.653	0.818	No
	Front	0.404	0.146	0.022	0.132	0.057	0.019	0.626	0.502	0.612	No
	Left	0.081	0.046	0.030	0.112	0.277	0.053	0.457	0.441	0.523	No
	Right	0.086						0.086	0.086	0.086	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	1.009						1.009	1.009	1.009	No
LTE Band 71	Rear	0.382	0.225	0.023	0.188	0.187	0.021	0.815	0.613	0.778	No
	Front	0.227	0.146	0.022	0.132	0.057	0.019	0.449	0.325	0.435	No
	Left	0.102	0.046	0.030	0.112	0.277	0.053	0.478	0.462	0.544	No
	Right	0.272						0.272	0.272	0.272	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.237						0.237	0.237	0.237	No

Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN & 5 GHz MIMO WLAN (10mm)											
Band		WWAN SAR	2.4 GHz WLAN Ant.1 RSDB SAR	2.4 GHz WLAN Ant.2 RSDB SAR	2.4 GHz WLAN MIMO RSDB SAR	5 GHz WLAN Ant.1 RSDB SAR	5 GHz WLAN Ant.2 RSDB SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	5	6	1+2+5+6	1+3+5+6	1+4+5+6	
NR Band n5	Rear	0.488	0.225	0.023	0.188	0.187	0.021	0.921	0.719	0.884	No
	Front	0.388	0.146	0.022	0.132	0.057	0.019	0.610	0.486	0.596	No
	Left	0.065	0.046	0.030	0.112	0.277	0.053	0.441	0.425	0.507	No
	Right	0.263						0.263	0.263	0.263	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.307						0.307	0.307	0.307	No
NR Band n12	Rear	0.563	0.225	0.023	0.188	0.187	0.021	0.996	0.794	0.959	No
	Front	0.487	0.146	0.022	0.132	0.057	0.019	0.709	0.585	0.695	No
	Left	0.250	0.046	0.030	0.112	0.277	0.053	0.626	0.61	0.692	No
	Right	0.307						0.307	0.307	0.307	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.444						0.444	0.444	0.444	No
NR Band n25	Rear	0.321	0.225	0.023	0.188	0.187	0.021	0.754	0.552	0.717	No
	Front	0.309	0.146	0.022	0.132	0.057	0.019	0.531	0.407	0.517	No
	Left	0.052	0.046	0.030	0.112	0.277	0.053	0.428	0.412	0.494	No
	Right	0.044						0.044	0.044	0.044	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.925						0.925	0.925	0.925	No
NR Band n30	Rear	0.394	0.225	0.023	0.188	0.187	0.021	0.827	0.625	0.790	No
	Front	0.378	0.146	0.022	0.132	0.057	0.019	0.600	0.476	0.586	No
	Left	0.079	0.046	0.030	0.112	0.277	0.053	0.455	0.439	0.521	No
	Right										No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	1.088						1.088	1.088	1.088	No
NR Band n41 (PC3)	Rear	0.414	0.225	0.023	0.188	0.187	0.021	0.847	0.645	0.81	No
	Front	0.404	0.146	0.022	0.132	0.057	0.019	0.626	0.502	0.612	No
	Left	0.234	0.046	0.030	0.112	0.277	0.053	0.61	0.594	0.676	No
	Right										No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.823						0.823	0.823	0.823	No
NR Band n41 (PC2)	Rear	0.322	0.225	0.023	0.188	0.187	0.021	0.755	0.553	0.718	No
	Front	0.330	0.146	0.022	0.132	0.057	0.019	0.552	0.428	0.538	No
	Left	0.200	0.046	0.030	0.112	0.277	0.053	0.576	0.560	0.642	No
	Right										No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.735						0.735	0.735	0.735	No
NR Band n66	Rear	0.707	0.225	0.023	0.188	0.187	0.021	1.140	0.938	1.103	No
	Front	0.631	0.146	0.022	0.132	0.057	0.019	0.853	0.729	0.839	No
	Left	0.080	0.046	0.030	0.112	0.277	0.053	0.456	0.440	0.522	No
	Right	0.112						0.112	0.112	0.112	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	1.031						1.031	1.031	1.031	No

Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN & 5 GHz MIMO WLAN (10mm)											
Band		WWAN SAR	2.4 GHz WLAN Ant.1 RSDB SAR	2.4 GHz WLAN Ant.2 RSDB SAR	2.4 GHz WLAN MIMO RSDB SAR	5 GHz WLAN Ant.1 RSDB SAR	5 GHz WLAN Ant.2 RSDB SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
		1	2	3	4	5	6	1+2+5+6	1+3+5+6	1+4+5+6	(Yes/No)
NR Band n71	Rear	0.405	0.225	0.023	0.188	0.187	0.021	0.838	0.636	0.801	No
	Front	0.303	0.146	0.022	0.132	0.057	0.019	0.525	0.401	0.511	No
	Left	0.205	0.046	0.030	0.112	0.277	0.053	0.581	0.565	0.647	No
	Right	0.277						0.277	0.277	0.277	No
	Top		0.455	0.008	0.301	0.115	0.012	0.582	0.135	0.428	No
	Bottom	0.246						0.246	0.246	0.246	No
NR Band n77 (PC3)	Rear	0.247	0.225	0.023	0.188	0.187	0.021	0.68	0.478	0.643	No
	Front	0.282	0.146	0.022	0.132	0.057	0.019	0.504	0.38	0.49	No
	Left	0.347	0.046	0.030	0.112	0.277	0.053	0.723	0.707	0.789	No
	Right										No
	Top	0.251	0.455	0.008	0.301	0.115	0.012	0.833	0.386	0.679	No
	Bottom										No
NR Band n77 (PC2)	Rear	0.397	0.225	0.023	0.188	0.187	0.021	0.83	0.628	0.793	No
	Front	0.283	0.146	0.022	0.132	0.057	0.019	0.505	0.381	0.491	No
	Left	0.523	0.046	0.030	0.112	0.277	0.053	0.899	0.883	0.965	No
	Right										No
	Top	0.320	0.455	0.008	0.301	0.115	0.012	0.902	0.455	0.748	No
	Bottom										No

14.4 Phablet SAR Simultaneous Transmission Analysis

Simultaneous Transmission Scenario with 5G WLAN Phablet								
Band		WWAN SAR (W/kg)	5 GHz WLAN Ant 1. SAR (W/kg)	5 GHz WLAN Ant 2. SAR (W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2	1+3	1+2+3	(Yes/No)
PCS CDMA	Rear	1.303	0.612	0.604	1.915	1.907	2.519	No
	Front	1.515	1.010	0.307	2.525	1.822	2.832	No
	Left	0.754	2.100	0.448	2.854	1.202	3.302	No
	Right	0.336			0.336	0.336	0.336	No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	1.548			1.548	1.548	1.548	No
GSM 1900	Rear	0.826	0.612	0.604	1.438	1.430	2.042	No
	Front	1.095	1.010	0.307	2.105	1.402	2.412	No
	Left	0.365	2.100	0.448	2.465	0.813	2.913	No
	Right	0.261			0.261	0.261	0.261	No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	1.058			1.058	1.058	1.058	No
UMTS 1700	Rear	1.242	0.612	0.604	1.854	1.846	2.458	No
	Front	1.485	1.010	0.307	2.495	1.792	2.802	No
	Left	0.825	2.100	0.448	2.925	1.273	3.373	No
	Right	0.499			0.499	0.499	0.499	No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	1.796			1.796	1.796	1.796	No
UMTS 1900	Rear	1.093	0.612	0.604	1.705	1.697	2.309	No
	Front	1.190	1.010	0.307	2.2	1.497	2.507	No
	Left	0.881	2.100	0.448	2.981	1.329	3.429	No
	Right	0.443			0.443	0.443	0.443	No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	1.608			1.608	1.608	1.608	No
LTE Band 7	Rear	2.007	0.612	0.604	2.619	2.611	3.223	No
	Front	1.598	1.010	0.307	2.608	1.905	2.915	No
	Left	0.803	2.100	0.448	2.903	1.251	3.351	No
	Right							No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	0.945			0.945	0.945	0.945	No
LTE Band 25	Rear	1.663	0.612	0.604	2.275	2.267	2.879	No
	Front	1.739	1.010	0.307	2.749	2.046	3.056	No
	Left	0.672	2.100	0.448	2.772	1.120	3.220	No
	Right	0.400			0.400	0.400	0.400	No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	1.842			1.842	1.842	1.842	No
LTE Band 30	Rear	0.912	0.612	0.604	1.524	1.516	2.128	No
	Front	1.559	1.010	0.307	2.569	1.866	2.876	No
	Left	0.775	2.100	0.448	2.875	1.223	3.323	No
	Right							No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	1.438			1.438	1.438	1.438	No

Simultaneous Transmission Scenario with 5G WLAN Phablet								
Band		WWAN SAR (W/kg)	5 GHz WLAN Ant 1. SAR (W/kg)	5 GHz WLAN Ant 2. SAR (W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2	1+3	1+2+3	(Yes/No)
LTE Band 41	Rear	1.546	0.612	0.604	2.158	2.15	2.762	No
	Front	1.242	1.010	0.307	2.252	1.549	2.559	No
	Left	0.720	2.100	0.448	2.820	1.168	3.268	No
	Right							No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	1.144			1.144	1.144	1.144	No
LTE Band 66	Rear	1.407	0.612	0.604	2.019	2.011	2.623	No
	Front	1.772	1.010	0.307	2.782	2.079	3.089	No
	Left	0.389	2.100	0.448	2.489	0.837	2.937	No
	Right	0.275			0.275	0.275	0.275	No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	2.491			2.491	2.491	2.491	No
NR Band n25	Rear	0.946	0.612	0.604	1.558	1.550	2.162	No
	Front	0.993	1.010	0.307	2.003	1.300	2.310	No
	Left	0.216	2.100	0.448	2.316	0.664	2.764	No
	Right	0.209			0.209	0.209	0.209	No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	0.990			0.990	0.990	0.990	No
NR Band n30	Rear	0.996	0.612	0.604	1.608	1.600	2.212	No
	Front	1.572	1.010	0.307	2.582	1.879	2.889	No
	Left	0.924	2.100	0.448	3.024	1.372	3.472	No
	Right							No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	1.572			1.572	1.572	1.572	No
NR Band n66	Rear	1.273	0.612	0.604	1.885	1.877	2.489	No
	Front	1.410	1.010	0.307	2.420	1.717	2.727	No
	Left	0.140	2.100	0.448	2.240	0.588	2.688	No
	Right							No
	Top		0.723	0.071	0.723	0.071	0.794	No
	Bottom	1.209			1.209	1.209	1.209	No

14.7 Simultaneous Transmission Conclusion

The above numerical summed SAR Results are sufficient to determine that simultaneous transmission cases will not exceed the SAR Limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE1528-2013.

15. SAR Measurement Variability and Uncertainty

In accordance with KDB procedure 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz, SAR additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement variability was assessed using the following procedures for each frequency band:

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg for 1g SAR or < 2.0 W/kg for 10g SAR; steps 2) through 4) do not apply.

2) When the original highest measured 1g SAR is ≥ 0.80 W/kg or 10g SAR ≥ 2.0 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 ≥ 1.45 W/kg for 1g SAR or ≥ 3.625 W/kg for 10g SAR (~ 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 for 1g SAR or ≥ 3.75 W/kg for 10g SAR and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Hotspot SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 908.75	1175	PCS CDMA	Bottom	0.951	0.871	1.10
2 310	27710	LTE Band 30	Bottom (50RB, 0offset)	0.821	0.798	1.03
2 310	462000	NR Band 30	Bottom (25RB, 27offset)	0.942	0.940	1.00
1 745	349000	NR Band 66	Bottom (108RB, 54offset)	0.827	0.783	1.06

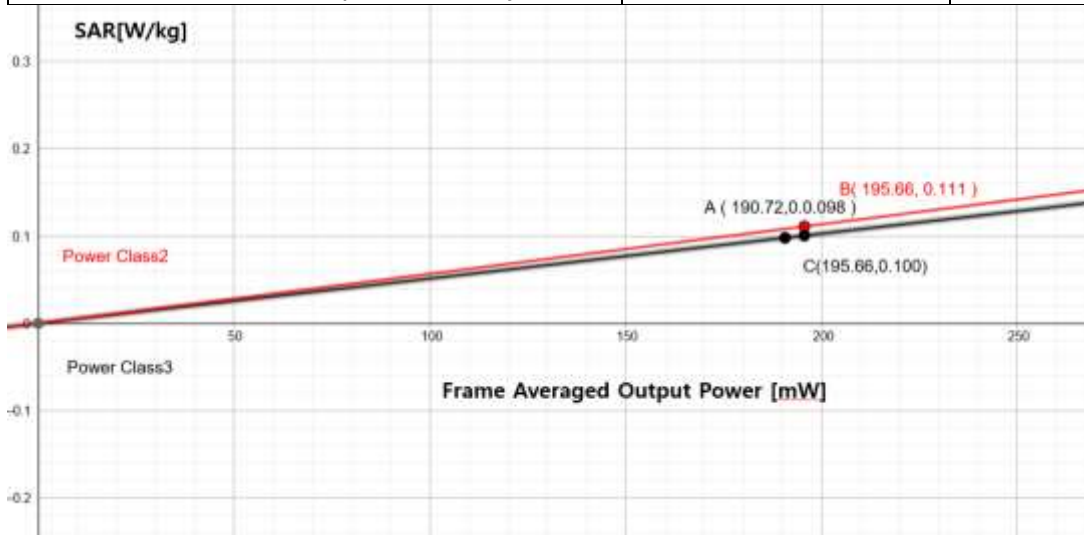
16. LTE Band 41 Power Class 2 and Power class 3 Linearity

This Device Supports Power Class 2 and Power Class 3 operations for LTE band 41. The Highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL Configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power class 3. SAR with power class 2 at the highest power and available duty factor was additionally performed for the power class 2 configuration with the Highest SAR for each exposure condition.

The linearity between the power class 3 and Power class 2 SAR Results and the respective frame averaged powers was calculated to determine the results were linear.

Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes as less than 10 % and all reported SAR values were < 1.4 W/kg

LTE Band 41 Head Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25.5	27
Measured Output Power[dBm]	24.79	26.55
Measured SAR[W/kg]	0.098	0.111
Duty Cycle	301.3	451.86
Frame Averaged Output Power[mW]	63.30%	43.30%
	0.000513842	0.000567311
% deviation from expected linearity		-9.42



LTE Band 41 Body -Worn Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25.5	27
Measured Output Power[dBm]	24.79	26.55
Measured SAR[W/kg]	0.256	0.269
Duty Cycle	301.3	451.86
Frame Averaged Output Power[mW]	63.30%	43.30%
	190.72	195.66
% deviation from expected linearity		-2.37



17. Antenna Impedance tuner testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 11 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Per FCC Guidance, during NR testing the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 60 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was $> 1.2 \text{ W/kg}$ for a particular band/mode/exposure condition, point SAR measurements were made for all 60 states.

The operational description contains more information about the design and implementation of the dynamic antenna tuning.

14.1 Head SAR Configuration

CDMA BC10		CDMA BC0		CDMA BC1		UMTS B5	
CDMA		CDMA		EVDO Rev.A		RMC	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	820	Frequency (MHz)	836.52	Frequency (MHz)	1880	Frequency (MHz)	836.6
Channel	560	Channel	384	Channel	600	Channel	4183
Measured 1g SAR(W/kg)	0.212	Measured 1g SAR(W/kg)	0.217	Measured 1g SAR(W/kg)	0.326	Measured 1g SAR(W/kg)	0.194
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 111)	0.254	Auto-tune (State 111)	0.273	Auto-tune (State 115)	0.401	Auto-tune (State 1)	0.253
Default (State 0)	0.248	Default (State 0)	0.252	Default (State 0)	0.337	Default (State 0)	0.24
State 33	0.159	State 52	0.147	State 8	0.237	State 2	0.235
State 80	0.129	State 66	0.148	State 24	0.129	State 9	0.133
State 86	0.005	State 75	0.209	State 43	0.288	State 66	0.073
State 108	0.249	State 99	0.057	State 72	0.121	State 83	0.186
State 112	0.133	State 113	0.244	State 88	0.322	State 103	0.135
State 119	0.141	State 116	0.231	State 112	0.348	State 119	0.204

UMTS B4		UMTS B2		LTE B71		LTE B12	
RMC		RMC		QPSK, 20 MHz, 1 RB, 0 RB Offset		QPSK, 10 MHz, 1 RB, 0 RB Offset	
Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	1732.4	Frequency (MHz)	1880	Frequency (MHz)	680.5	Frequency (MHz)	707.5
Channel	1412	Channel	9400	Channel	133297	Channel	23095
Measured 1g SAR (W/kg)	0.134	Measured 1g SAR (W/kg)	0.153	Measured 1g SAR (W/kg)	0.105	Measured 1g SAR (W/kg)	0.14
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 51)	0.202	Auto-tune (State 12)	0.237	Auto-tune (State 4)	0.127	Auto-tune (State 4)	0.214
Default (State 0)	0.142	Default (State 0)	0.211	Default (State 0)	0.123	Default (State 0)	0.202
State 4	0.179	State 41	0.063	State 0	0.113	State 5	0.214
State 18	0.105	State 69	0.148	State 11	0.062	State 35	0.07
State 40	0.106	State 95	0.053	State 14	0.121	State 37	0.026
State 63	0.108	State 109	0.183	State 28	0.1	State 54	0.156
State 82	0.138	State 114	0.233	State 57	0.065	State 84	0.125
State 112	0.051	State 115	0.207	State 70	0.078	State 101	0.18
				State 97	0.056	State 118	0.213

LTE B13		LTE B14		LTE B26/5		LTE B66/4	
QPSK, 10 MHz, 1 RB, 24 RB Offset		QPSK, 10 MHz, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 49RB		QPSK, 20 MHz, 1 RB, 49 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	782	Frequency (MHz)	793	Frequency (MHz)	836.6	Frequency (MHz)	1770
Channel	23230	Channel	23330	Channel	20525	Channel	132572
Measured 1g SAR (W/kg)	0.166	Measured 1g SAR (W/kg)	0.191	Measured 1g SAR (W/kg)	0.233	Measured 1g SAR (W/kg)	0.193
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 4)	0.214	Auto-tune (State 4)	0.242	Auto-tune (State 4)	0.308	Auto-tune (State 51)	0.28
Default (State 0)	0.133	Default (State 0)	0.235	Default (State 0)	0.249	Default (State 0)	0.188
State 0	0.165	State 12	0.039	State 19	0.224	State 3	0.192
State 32	0.085	State 15	0.234	State 30	0.108	State 7	0.151
State 43	0.161	State 21	0.139	State 38	0.021	State 16	0.105
State 48	0.025	State 44	0.14	State 62	0.143	State 34	0.142
State 77	0.051	State 66	0.13	State 82	0.153	State 37	0.125
State 93	0.16	State 106	0.241	State 94	0.184	State 49	0.256
State 113	0.127	State 112	0.233	State 112	0.218	State 109	0.114

LTE B25/2		NR Band n12		NR Band n71		NR Band n5	
QPSK, 20 MHz, 1 RB, 0 R B Offset		DFT-s-OFDM QPSK, 20 MHz, 1 R B, 1		DFT-s-OFDM QPSK, 20 MHz, 1 R B, 0		DFT-s-OFDM QPSK, 20 MHz, 1 R B, 53 offset	
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	1882.5	Frequency (MHz)	707.5	Frequency (MHz)	680.5	Frequency (MHz)	836.5
Channel	26365	Channel	141500	Channel	136100	Channel	167300
Measured 1g SAR (W/kg)	0.178	Measured 1g SAR (W/kg)	0.115	Measured 1g SAR (W/kg)	0.085	Measured 1g SAR (W/kg)	0.171
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 115)	0.281	Auto-tune (State 1)	0.141	Auto-tune (State 1)	0.101	Auto-tune (State 4)	0.232
Default (State 0)	0.228	Default (State 0)	0.134	Default (State 0)	0.099	Default (State 0)	0.226
State 4	0.173	State 5	0.127	State 7	0.087	State 11	0.158
State 11	0.134	State 8	0.094	State 13	0.054	State 21	0.16
State 50	0.044	State 14	0.107	State 24	0.091	State 62	0.108
State 71	0.133	State 56	0.087	State 48	0.079	State 66	0.19
State 100	0.052	State 70	0.03	State 65	0.042	State 81	0.111
State 107	0.193	State 87	0.038	State 89	0.049	State 92	0.174
State 112	0.241	State 104	0.121	State 107	0.096	State 108	0.215
		State 114	0.129	State 119	0.088	State 116	0.129

NR Band n66		NR Band n2/25		GSM850		GSM1900	
DFT-s-OFDM QPSK, 40 MHz, 108RB, 54 RB		DFT-s-OFDM QPSK, 40 MHz, 108RB, 54RB offset		GMSK		GPRS 3Tx	
Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	1745	Frequency (MHz)	1882.5	Frequency (MHz)	836.6	Frequency (MHz)	1880
Channel	349000	Channel	376500	Channel	190	Channel	661
Measured 1g SAR (W/kg)	0.098	Measured 1g SAR (W/kg)	0.155	Measured 1g SAR (W/kg)	0.191	Measured 1g SAR (W/kg)	0.149
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 51)	0.151	Auto-tune (State 115)	0.262	Auto-tune (State 1)	0.251	Auto-tune (State 115)	0.242
Default (State 0)	0.137	Default (State 0)	0.238	Default (State 0)	0.248	Default (State 0)	0.211
State 7	0.113	State 9	0.205	State 33	0.069	State 52	0.087
State 12	0.109	State 13	0.168	State 80	0.139	State 66	0.048
State 27	0.167	State 25	0.009	State 86	0.075	State 75	0.069
State 45	0.149	State 47	0.204	State 108	0.209	State 99	0.067
State 54	0.127	State 65	0.187	State 112	0.083	State 113	0.234
State 66	0.102	State 79	0.094	State 119	0.111	State 116	0.221
State 78	0.098	State 103	0.003				
State 87	0.114	State 112	0.168				

14.2 Body SAR Configuration

GSM850		GSM1900		CDMA BC10		CDMA BC0	
GPRS 2Tx		GPRS 3Tx		EVDO Rev.0		EVDO Rev.0	
Test Position	Rear Side	Test Position	Bottom	Test Position	Rear Side	Test Position	Rear Side
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	836.6	Frequency (MHz)	1880	Frequency (MHz)	820	Frequency (MHz)	836.52
Channel	190	Channel	661	Channel	560	Channel	384
Measured 1g SAR (W/kg)	0.693	Measured 1g SAR	0.499	Measured 1g SAR (W/kg)	0.577	Measured 1g SAR	0.641
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 111)	1.19	Auto-tune (State 115)	0.871	Auto-tune (State 111)	1.02	Auto-tune (State 111)	1.12
Default (State 0)	0.875	Default (State 0)	0.812	Default (State 0)	0.941	Default (State 0)	0.979
State 12	0.189	State 37	0.301	State 23	0.263	State 33	0.54
State 28	0.738	State 69	0.852	State 29	0.748	State 66	0.921
State 40	0.612	State 70	0.686	State 42	0.694	State 67	0.901
State 57	0.482	State 75	0.408	State 58	0.564	State 72	0.608
State 99	0.188	State 81	0.786	State 102	0.138	State 79	0.878
State 114	0.973	State 108	0.775	State 112	0.971	State 110	0.927

UMTS B5		LTE B71		LTE B12		LTE B13	
RMC		QPSK, 20 MHz Bandwidth, 1 RB, 50 RB		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB		QPSK, 10 MHz Bandwidth, 1 RB, 24 RB	
Test Position	Rear Side	Test Position	Rear Side	Test Position	Rear Side	Test Position	Rear Side
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	836.6	Frequency (MHz)	680.5	Frequency (MHz)	707.5	Frequency (MHz)	782
Channel	4183	Channel	133297	Channel	23095	Channel	23230
Measured 1g SAR	0.609	Measured 1g SAR	0.293	Measured 1g SAR	0.323	Measured 1g SAR	0.394
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 2)	1.15	Auto-tune (State 0)	0.557	Auto-tune (State 4)	0.605	Auto-tune (State 1)	0.742
Default (State 0)	0.94	Default (State 0)	0.58	Default (State 0)	0.602	Default (State 0)	0.672
State 1	0.858	State 3	0.492	State 5	0.599	State 2	0.732
State 6	0.591	State 22	0.164	State 13	0.599	State 6	0.104
State 17	0.828	State 25	0.08	State 30	0.538	State 50	0.176
State 44	0.816	State 61	0.191	State 47	0.458	State 55	0.439
State 112	1.097	State 90	0.098	State 65	0.309	State 88	0.176
State 117	0.897	State 98	0.108	State 109	0.261	State 106	0.74

LTE B14		LTE B5		LTE B26		NR Band n12	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB, Up-CA		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 1 RB 53 RB offset	
Test Position	Rear Side	Test Position	Rear Side	Test Position	Rear Side	Test Position	Rear Side
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	793	Frequency (MHz)	836.5	Frequency (MHz)	831.5	Frequency (MHz)	707.5
Channel	23330	Channel	20525	Channel	26865	Channel	141500
Measured 1g SAR	0.485	Measured 1g SAR	0.653	Measured 1g SAR	0.558	Measured 1g SAR	0.391
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 4)	0.911	Auto-tune (State 4)	1.16	Auto-tune (State 4)	1.07	Auto-tune (State 1)	0.742
Default (State 0)	0.904	Default (State 0)	1.059	Default (State 0)	0.943	Default (State 0)	0.566
State 2	0.867	State 28	0.752	State 18	0.653	State 4	0.426
State 13	0.783	State 34	0.421	State 26	0.931	State 7	0.324
State 27	0.909	State 58	0.531	State 36	0.111	State 21	0.149
State 51	0.062	State 63	0.081	State 44	0.626	State 28	0.369
State 69	0.416	State 66	0.771	State 53	0.785	State 40	0.199
State 101	0.211	State 68	0.857	State 75	0.062	State 52	0.131

NR Band n71		NR Band n5	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB 53 RB offset	
Test Position	Rear Side	Test Position	Rear Side
Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.5	Frequency (MHz)	836.5
Channel	136100	Channel	167300
Measured 1g SAR	0.311	Measured 1g SAR	0.33
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 1)	0.594	Auto-tune (State 4)	0.573
Default (State 0)	0.504	Default (State 0)	0.536
State 3	0.135	State 5	0.063
State 10	0.473	State 15	0.565
State 20	0.142	State 24	0.094
State 27	0.515	State 29	0.551
State 43	0.056	State 38	0.056
State 46	0.369	State 66	0.567

NR Band n66		UMTSB4		UMTSB2	
DFT-s-OFDM QPSK, 20 MHz Bandwidth,		RMC		RMC	
Test Position	Back Side	TestPosition	Bottom	TestPosition	BottomEdge
Spacing	10mm	Spacing	10mm	Spacing	10mm
Frequency (MHz)	1745	Frequency (MHz)	1732.4	Frequency (MHz)	1880
Channel	349000	Channel	1412	Channel	9400
Measured 1g SAR	0.827	Measured1gSAR	0.631	Measured1gSAR	0.732
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 51)	1.47	Auto-tune(State51)	1.19	Auto-tune(State113)	1.38
Default(State0)	1.233	Default(State0)	1.048	Default(State0)	1.238
State0	1.218	State0	1.048	State0	1.238
State1	1.162	State1	0.932	State1	1.002
State2	1.116	State2	0.836	State2	1.026
State3	1.162	State3	0.852	State3	0.842
State4	1.046	State4	1.006	State4	1.066
State5	1.139	State5	0.889	State5	1.029
State6	0.997	State6	0.797	State6	0.947
State7	0.922	State7	0.752	State7	0.932
State8	0.848	State8	0.668	State8	0.748
State9	0.799	State9	0.579	State9	0.709
State10	0.712	State10	0.492	State10	0.482
State11	0.582	State11	0.462	State11	0.522
State12	1.17	State12	1.04	State12	1.15
State13	1.388	State13	1.098	State13	1.218
State14	1.129	State14	1.099	State14	1.189
State15	1.313	State15	1.183	State15	1.173
State16	1.324	State16	1.004	State16	0.994
State17	1.156	State17	1.046	State17	1.166
State18	1.156	State18	0.896	State18	0.986
State19	1.082	State19	0.782	State19	0.832
State20	1.109	State20	0.899	State20	0.909

State21	0.875	State21	0.675	State21	0.715
State22	0.903	State22	0.603	State22	0.793
State23	0.73	State23	0.5	State23	0.55
State24	0.655	State24	0.325	State24	0.375
State25	1.4	State25	1.08	State25	1.25
State26	1.17	State26	1.02	State26	1.15
State27	1.43	State27	1.14	State27	1.2
State28	1.42	State28	1.15	State28	1.26
State29	1.27	State29	1.07	State29	1.1
State30	1.149	State30	1.129	State30	1.179
State31	1.227	State31	1.057	State31	1.157
State32	1.059	State32	0.909	State32	1.059
State33	0.837	State33	0.667	State33	0.707
State34	0.873	State34	0.703	State34	0.883
State35	0.625	State35	0.415	State35	0.485
State36	0.611	State36	0.571	State36	0.741
State37	0.911	State37	0.691	State37	0.791
State38	0.741	State38	0.411	State38	0.521
State39	0.684	State39	0.334	State39	0.384
State40	0.554	State40	0.294	State40	0.394
State41	0.591	State41	0.231	State41	0.381
State42	0.471	State42	0.281	State42	0.301
State43	0.473	State43	0.303	State43	0.293
State44	0.664	State44	0.424	State44	0.464
State45	0.566	State45	0.326	State45	0.396
State46	0.464	State46	0.134	State46	0.254
State47	0.605	State47	0.415	State47	0.445
State48	0.554	State48	0.484	State48	0.494
State49	0.722	State49	0.422	State49	0.442
State50	1.42	State50	1.13	State50	1.21
State51	1.47	State51	1.19	State51	1.16
State52	1.41	State52	1.15	State52	1.2
State53	1.27	State53	1.07	State53	1.14
State54	1.25	State54	1.04	State54	1.2
State55	1.29	State55	1.07	State55	1.18

State56	1.43	State56	1.14	State56	1.25
State57	1.205	State57	0.995	State57	1.045
State58	1.285	State58	1.015	State58	1.115
State59	1.235	State59	1.015	State59	1.085
State60	1.153	State60	0.943	State60	1.013
State61	0.886	State61	0.676	State61	0.806
State62	0.691	State62	0.531	State62	0.541
State63	0.924	State63	0.644	State63	0.834
State64	0.836	State64	0.616	State64	0.656
State65	0.727	State65	0.577	State65	0.757
State66	0.993	State66	0.723	State66	0.843
State67	0.953	State67	0.633	State67	0.823
State68	0.769	State68	0.579	State68	0.769
State69	0.454	State69	0.274	State69	0.434
State70	0.562	State70	0.362	State70	0.422
State71	0.446	State71	0.276	State71	0.446
State72	0.481	State72	0.341	State72	0.491
State73	0.631	State73	0.321	State73	0.381
State74	0.601	State74	0.431	State74	0.561
State75	0.645	State75	0.345	State75	0.525
State76	1.13	State76	0.89	State76	0.9
State77	1.183	State77	0.843	State77	1.013
State78	1.177	State78	0.887	State78	1.067
State79	1.26	State79	1.08	State79	1.09
State80	1.135	State80	0.895	State80	0.975
State81	1.004	State81	0.714	State81	0.894
State82	1.081	State82	0.871	State82	1.011
State83	1.005	State83	0.725	State83	0.735
State84	0.705	State84	0.465	State84	0.605
State85	0.631	State85	0.391	State85	0.461
State86	0.629	State86	0.429	State86	0.569
State87	0.625	State87	0.295	State87	0.445
State88	0.528	State88	0.368	State88	0.498
State89	1.084	State89	0.924	State89	1.074
State90	1.164	State90	0.874	State90	0.864

State91	1.198	State91	0.908	State91	1.008
State92	1.272	State92	0.952	State92	0.962
State93	0.989	State93	0.749	State93	0.789
State94	1.255	State94	0.965	State94	0.965
State95	1.079	State95	0.799	State95	0.879
State96	1.106	State96	0.966	State96	1.136
State97	1.086	State97	0.866	State97	0.876
State98	1.117	State98	0.817	State98	0.947
State99	0.7	State99	0.49	State99	0.6
State100	0.562	State100	0.432	State100	0.512
State101	0.526	State101	0.386	State101	0.546
State102	1.157	State102	0.967	State102	1.037
State103	1.26	State103	1.07	State103	1.16
State104	1.33	State104	1.13	State104	1.26
State105	0.874	State105	0.684	State105	0.824
State106	1.36	State106	1.18	State106	1.26
State107	0.966	State107	0.746	State107	0.766
State108	1.105	State108	0.875	State108	0.865
State109	1.129	State109	0.889	State109	0.969
State110	1.125	State110	0.955	State110	1.105
State111	1.219	State111	0.969	State111	1.109
State112	1.46	State112	1.18	State112	1.24
State113	0.795	State113	0.595	State113	1.38
State114	1.21	State114	1.1	State114	1.23
State115	0.976	State115	0.736	State115	1.14
State116	1.228	State116	1.028	State116	1.038
State117	1.137	State117	0.957	State117	0.987
State118	0.27	State118	0.24	State118	0.33
State119	0.22	State119	0.39	State119	0.42

LTE B66/4		LTEB25/2		NRBandn2/25		CDMA BC1	
QPSK, 20 MHz Bandwidth, 50 RB, 25 RB		QPSK, 20MHzBandwidth, 1RB, 49RB		CP-OFDM,QPSK, 40MHzBandwidth,1RB, 1 RB offset		EVDO Rev.0	
Test Position	Bottom	Test Position	BottomEdge	TestPosition	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10mm	Spacing	10mm	Spacing	10 mm
Frequency (MHz)	1745	Frequency (MHz)	1882.5	Frequency (MHz)	1882.5	Frequency (MHz)	1908.75
Channel	132322	Channel	26365	Channel	376500	Channel	1175
Measured 1g SAR	0.798	Measured1g SAR	0.728	Measured1gSAR	0.738	Measured 1g SAR	0.951
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 51)	1.21	Auto-tune(State115)	1.35	Auto-tune(State115)	1.37	Auto-tune (State 115)	1.75
Default(State0)	1.16	Default(State0)	1.238	Default(State0)	1.218	Default(State0)	1.248
State0	0.888	State0	1.238	State0	1.218	State0	1.248
State1	0.872	State1	1.022	State1	1.052	State1	1.102
State2	0.886	State2	0.966	State2	0.856	State2	1.086
State3	0.932	State3	0.922	State3	0.982	State3	1.262
State4	1.006	State4	1.166	State4	1.096	State4	1.086
State5	0.829	State5	1.039	State5	1.079	State5	1.169
State6	0.787	State6	0.837	State6	0.927	State6	1.027
State7	0.652	State7	0.852	State7	0.912	State7	0.772
State8	0.548	State8	0.658	State8	0.838	State8	0.868
State9	0.679	State9	0.579	State9	0.689	State9	0.829
State10	0.632	State10	0.572	State10	0.652	State10	0.712
State11	0.352	State11	0.642	State11	0.492	State11	0.542
State12	1.09	State12	1.13	State12	1.11	State12	1.21
State13	1.078	State13	1.108	State13	1.228	State13	1.248
State14	0.989	State14	1.089	State14	1.149	State14	1.129
State15	1.173	State15	1.223	State15	1.313	State15	1.253
State16	1.134	State16	1.004	State16	1.174	State16	1.274
State17	1.026	State17	1.176	State17	1.116	State17	1.206
State18	0.926	State18	0.896	State18	0.936	State18	1.006

State19	0.822	State19	0.782	State19	0.852	State19	1.042
State20	0.799	State20	1.009	State20	1.069	State20	1.079
State21	0.785	State21	0.785	State21	0.815	State21	1.015
State22	0.743	State22	0.623	State22	0.733	State22	0.993
State23	0.48	State23	0.64	State23	0.5	State23	0.73
State24	0.435	State24	0.345	State24	0.425	State24	0.595
State25	1.21	State25	1.11	State25	1.11	State25	1.38
State26	1.07	State26	1.21	State26	1.15	State26	1.18
State27	1.181	State27	1.32	State27	1.29	State27	1.51
State28	1.13	State28	1.2	State28	1.2	State28	1.42
State29	1.09	State29	1.2	State29	1.13	State29	1.31
State30	1.009	State30	1.139	State30	1.299	State30	1.339
State31	1.037	State31	1.167	State31	1.147	State31	1.227
State32	0.879	State32	1.039	State32	0.989	State32	1.019
State33	0.697	State33	0.817	State33	0.777	State33	0.987
State34	0.833	State34	0.883	State34	0.743	State34	0.873
State35	0.535	State35	0.535	State35	0.585	State35	0.775
State36	0.551	State36	0.691	State36	0.631	State36	0.601
State37	0.681	State37	0.791	State37	0.851	State37	0.841
State38	0.441	State38	0.471	State38	0.531	State38	0.741
State39	0.394	State39	0.374	State39	0.394	State39	0.604
State40	0.424	State40	0.324	State40	0.344	State40	0.554
State41	0.311	State41	0.221	State41	0.301	State41	0.551
State42	0.391	State42	0.411	State42	0.301	State42	0.561
State43	0.193	State43	0.463	State43	0.433	State43	0.403
State44	0.474	State44	0.414	State44	0.554	State44	0.634
State45	0.426	State45	0.456	State45	0.426	State45	0.556
State46	0.194	State46	0.234	State46	0.194	State46	0.334
State47	0.435	State47	0.565	State47	0.555	State47	0.545
State48	0.374	State48	0.494	State48	0.514	State48	0.674
State49	0.412	State49	0.522	State49	0.602	State49	0.702
State50	1.132	State50	1.28	State50	1.19	State50	1.4
State51	1.21	State51	1.23	State51	1.28	State51	1.36
State52	1.12	State52	1.27	State52	1.22	State52	1.37
State53	1.04	State53	1.14	State53	1.14	State53	1.36

State54	1.09	State54	1.07	State54	1.03	State54	1.29
State55	1.01	State55	1.25	State55	1.26	State55	1.25
State56	1.06	State56	1.19	State56	1.28	State56	1.34
State57	1.045	State57	1.015	State57	1.145	State57	1.275
State58	0.915	State58	1.205	State58	1.115	State58	1.285
State59	1.015	State59	1.205	State59	1.005	State59	1.125
State60	0.843	State60	0.963	State60	0.943	State60	1.133
State61	0.696	State61	0.676	State61	0.866	State61	0.906
State62	0.391	State62	0.711	State62	0.711	State62	0.641
State63	0.564	State63	0.634	State63	0.824	State63	0.774
State64	0.716	State64	0.766	State64	0.606	State64	0.866
State65	0.667	State65	0.597	State65	0.567	State65	0.837
State66	0.753	State66	0.713	State66	0.793	State66	1.023
State67	0.693	State67	0.763	State67	0.633	State67	0.873
State68	0.559	State68	0.609	State68	0.719	State68	0.809
State69	0.314	State69	0.414	State69	0.284	State69	0.514
State70	0.372	State70	0.422	State70	0.502	State70	0.642
State71	0.206	State71	0.406	State71	0.266	State71	0.486
State72	0.281	State72	0.431	State72	0.401	State72	0.441
State73	0.461	State73	0.441	State73	0.321	State73	0.561
State74	0.421	State74	0.581	State74	0.531	State74	0.671
State75	0.395	State75	0.345	State75	0.425	State75	0.595
State76	0.94	State76	0.93	State76	0.99	State76	1.08
State77	0.903	State77	1.003	State77	0.873	State77	1.223
State78	1.007	State78	0.887	State78	1.017	State78	1.097
State79	1.02	State79	1.16	State79	1.12	State79	1.27
State80	0.855	State80	1.015	State80	0.985	State80	0.985
State81	0.834	State81	0.784	State81	0.824	State81	1.004
State82	0.891	State82	0.951	State82	0.901	State82	1.011
State83	0.895	State83	0.715	State83	0.745	State83	1.045
State84	0.555	State84	0.525	State84	0.595	State84	0.755
State85	0.351	State85	0.561	State85	0.571	State85	0.581
State86	0.379	State86	0.519	State86	0.529	State86	0.499
State87	0.255	State87	0.325	State87	0.485	State87	0.485
State88	0.408	State88	0.418	State88	0.498	State88	0.568

State89	0.834	State89	1.004	State89	0.974	State89	1.104
State90	0.964	State90	0.894	State90	0.884	State90	1.014
State91	1.058	State91	1.028	State91	1.038	State91	1.228
State92	0.972	State92	0.992	State92	1.002	State92	1.152
State93	0.879	State93	0.939	State93	0.869	State93	1.119
State94	0.935	State94	1.055	State94	1.075	State94	1.315
State95	0.729	State95	0.919	State95	0.939	State95	0.969
State96	0.876	State96	0.996	State96	1.106	State96	1.196
State97	0.836	State97	0.976	State97	1.056	State97	1.156
State98	0.847	State98	0.827	State98	1.007	State98	0.977
State99	0.62	State99	0.5	State99	0.61	State99	0.71
State100	0.382	State100	0.492	State100	0.552	State100	0.692
State101	0.506	State101	0.456	State101	0.546	State101	0.616
State102	0.827	State102	1.087	State102	1.067	State102	1.217
State103	1.09	State103	1.07	State103	1.23	State103	1.23
State104	1.05	State104	1.18	State104	1.3	State104	1.35
State105	0.794	State105	0.684	State105	0.824	State105	0.924
State106	1.09	State106	1.14	State106	1.26	State106	1.29
State107	0.756	State107	0.916	State107	0.916	State107	0.836
State108	0.875	State108	0.995	State108	0.995	State108	1.135
State109	0.989	State109	0.989	State109	0.909	State109	1.159
State110	0.835	State110	1.075	State110	1.045	State110	1.025
State111	1.029	State111	1.049	State111	1.049	State111	1.269
State112	1.023	State112	1.3	State112	1.27	State112	1.45
State113	0.575	State113	1.23	State113	1.07	State113	1.01
State114	1.07	State114	1.29	State114	1.15	State114	1.41
State115	0.696	State115	1.35	State115	1.37	State115	1.75
State116	0.998	State116	1.138	State116	1.028	State116	1.368
State117	0.877	State117	0.977	State117	1.047	State117	1.257
State118	0.02	State118	0.23	State118	0.27	State118	0.3
State119	0.05	State119	0.47	State119	0.52	State119	0.25

18. Measurement Uncertainty

The measured SAR was <1.5 W/Kg for 1g SAR and <3.75 W/Kg For 10g SAR for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE1528-2013 was not required.

19. SAR Test Equipment

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli 1-1	CS8Cspeag-TX90	F01/ 5K08A1/ C/ 01	N/A	N/A	N/A
Staubli 3	CS8Cspeag-TX90	F12/ 5K9GA1/ C/ 01	N/A	N/A	N/A
Staubli 4	CS8Cspeag-TX90	F17/ 59CHA1/ C/ 01	N/A	N/A	N/A
Staubli 5	CS8Cspeag-TX90	F17/ 59RAA1/ C/ 0	N/A	N/A	N/A
Staubli 6	CS8Cspeag-TX90	F13/ 5R4XF1/ C/ 01	N/A	N/A	N/A
Staubli	TX90 XLSpeag	F01/ 5K08A1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLSpeag	F12/ 5K9GA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLSpeag	F17/ 59CHA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLSpeag	F17/ 59RAA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLSpeag	F13/ 5R4XF1/ A/ 01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	01.13P 00679	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	010963	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	011578	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1338 1332	N/A	N/A	N/A
SPEAG	DAE4	868	09/29/2020	Annual	09/29/2021
SPEAG	DAE4	504	02/19/2021	Annual	02/19/2022
SPEAG	DAE4	1225	08/07/2020	Annual	08/07/2021
SPEAG	DAE4	446	07/29/2020	Annual	07/29/2021
SPEAG	DAE4	466	04/23/2021	Annual	04/23/2022
SPEAG	DAE4	648	05/25/2020	Annual	05/25/2021
SPEAG	DAE4	1629	08/11/2020	Annual	08/11/2021
SPEAG	E-Field Probe EX3DV4	7622	11/06/2020	Annual	11/06/2021
SPEAG	E-Field Probe EX3DV4	3797	11/25/2020	Annual	11/25/2021
SPEAG	E-Field Probe EX3DV4	3903	03/24/2021	Annual	03/24/2022
SPEAG	E-Field Probe EX3DV4	7352	10/28/2020	Annual	10/28/2021
SPEAG	E-Field Probe EX3DV4	3968	09/28/2020	Annual	09/28/2021
SPEAG	E-Field Probe ES3DV4	3076	07/31/2020	Annual	07/31/2021
SPEAG	Dipole D750V3	1014	05/19/2020	Annual	05/19/2021
SPEAG	Dipole D835V2	4d266	08/27/2020	Annual	08/27/2021
SPEAG	Dipole D1800V2	2d007	08/26/2020	Annual	08/26/2021
SPEAG	Dipole D1900V2	5d032	01/28/2021	Annual	01/28/2022
SPEAG	Dipole D2300V2	1010	08/26/2020	Annual	08/26/2021
SPEAG	Dipole D2450V2	1049	08/26/2020	Annual	08/26/2021
SPEAG	Dipole D2600V2	1015	08/26/2020	Annual	08/26/2021
SPEAG	Dipole D3500V2	1040	02/17/2021	Annual	02/17/2022
SPEAG	Dipole D3700V2	1066	11/19/2020	Annual	11/19/2021
SPEAG	Dipole D3900V2	1019	05/22/2020	Annual	05/22/2021
SPEAG	Dipole D5GHzV2	1253	08/31/2020	Annual	08/31/2021

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Agilent	Power Meter E4419B	MY41291386	10/23/2020	Annual	10/23/2021
Agilent	Power Meter N1911A	MY45101406	08/31/2020	Annual	08/31/2021
Agilent	Power Sensor 8481A	SG1091286	10/05/2020	Annual	10/05/2021
Agilent	Power Sensor 8481A	MY41090873	10/05/2020	Annual	10/05/2021
Agilent	Power Sensor N1921A	MY55220026	08/31/2020	Annual	08/31/2021
Agilent	Power Divider	11636B	02/26/2021	Annual	02/26/2022
SPEAG	DAKS 3.5	1038	03/17/2021	Annual	03/17/2022
ROHDE&SCHWARZ	Signal Generator	SMB100A	07/13/2020	Annual	07/13/2021
H.P	Network Analyzer /8753ES	JP39240221	01/11/2021	Annual	01/11/2022
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	10/06/2020	Annual	10/06/2021
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	08/06/2020	Annual	08/06/2021
Agilent	WIRELESS COMMUNICATION E5515C	GB44051865	06/01/2020	Annual	06/01/2021
Agilent	Signal Generator N5182A	MY47070230	01/26/2021	Annual	01/26/2022
TESTO	175-H1/Thermometer	40331936309	01/26/2021	Annual	01/26/2022
TESTO	175-H1/Thermometer	40331953309	01/26/2021	Annual	01/26/2022
TESTO	175-H1/Thermometer	40331915309	01/26/2021	Annual	01/26/2022
TESTO	175-H1/Thermometer	40331922309	01/26/2021	Annual	01/26/2022
TESTO	175-H1/Thermometer	40332651310	01/26/2021	Annual	01/26/2022
EMPOWER	RF Power Amplifier	1084	07/01/2020	Annual	07/01/2021
EMPOWER	RF Power Amplifier	1011	07/30/2020	Annual	07/30/2021
MICRO LAB	LP Filter / LA-15N	10453	10/05/2020	Annual	10/05/2021
MICRO LAB	LP Filter / LA-30N	-	10/05/2020	Annual	10/05/2021
MICRO LAB	LP Filter / LA-60N	32011	10/05/2020	Annual	10/05/2021
Agilent	Attenuator (3dB) 8693B	MY39260298	09/18/2020	Annual	09/18/2021
HP	Attenuator (20dB) 8493C	09271	09/18/2020	Annual	09/18/2021
Agilent	Directional Bridge	3140A03878	06/08/2020	Annual	06/08/2021
OSI	Power Divider	12	07/15/2020		07/15/2021
OSI	Power Divider	9	07/15/2020	Annual	07/15/2021
OSI	Power Divider	10	07/15/2020	Annual	07/15/2021
OSI	Power Divider	8	07/15/2020	Annual	07/15/2021
OSI	Power Divider	11	07/15/2020	Annual	07/15/2021
Agilent	MXA Signal Analyzer N9020A	MY50510407	10/23/2020	Annual	10/23/2021
HP	Dual Directional Coupler	16072	10/05/2020	Annual	10/05/2021
Anritsu	Radio Communication Test Station MT8000A	6262036812	12/22/2020	Annual	12/22/2021
Anritsu	Radio Communication Test Station MT8000A	6261949673	11/09/2020	Annual	11/09/2021
Anritsu	Radio Communication Tester MT8820C	6201074225	02/26/2021	Annual	02/26/2022
Anritsu	Radio Communication Tester MT8820C	6200695605	04/15/2021	Annual	04/15/2022
Anritsu	Radio Communication Tester MT8820C	6200628628	09/18/2020	Annual	09/18/2021
Anritsu	Radio Communication Tester MT8821C	6262192348	11/09/2020	Annual	11/09/2021
Anritsu	Radio Communication Tester MT8821C	6262116770	07/22/2020	Annual	07/22/2021
Anritsu	Radio Communication Tester MT8821C	6201502997	08/06/2020	Annual	08/06/2021
Anritsu	Radio Communication Tester MT8821C	6262044720	12/22/2020	Annual	12/22/2021
ROHDE&SCHWARZ	BLUETOOTH TESTER CBT	100272	02/26/2021	Annual	02/26/2022

* The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

20. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 - 2005.

These measurements were taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

21. References

- [1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation, Aug. 1996.
- [2] ANSI/IEEE C95.1 - 2005 , American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 300 kHz to 300 GHz, New York: IEEE, Sept. 1992
- [3] ANSI/IEEE C 95.1 - 2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHz to 300 GHz, New York: IEEE, 2006
- [4] ANSI/IEEE C95.3 - 2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, New York: December 2002.
- [5] IEEE Standards Coordinating Committee 34 – IEEE Std. 1528-2013, IEEE Recommended Practice or Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices
- [6] NCRP, National Council on Radiation Protection and Measurements, Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields, NCRP Report No. 86, 1986. Reprinted Feb. 1995.
- [7] T. Schmid, O. Egger, N. Kuster, Automated E-field scanning system for dosimetric assessments, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.
- [8] K. Pokovic, T. Schmid, N. Kuster, Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies, ICECOM97, Oct. 1997, pp. 120-124.
- [9] K. Pokovic, T. Schmid, and N. Kuster, E-field Probe with improved isotropy in brain simulating liquids, Proceedings of the ELMAR, Zadar, Croatia, June 23-25, 1996, pp. 172-175.
- [10] Schmid & Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.
- [11] V. Hombach, K. Meier, M. Burkhardt, E. Kuhn, N. Kuster, The Dependence of EM Energy Absorption upon Human Head Modeling at 900 MHz, IEEE Transaction on Microwave Theory and Techniques, vol. 44 no. 10, Oct. 1996, pp. 1865-1873.
- [12] N. Kuster and Q. Balzano, Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300 MHz, IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.
- [13] G. Hartsgrrove, A. Kraszewski, A. Surowiec, Simulated Biological Materials for Electromagnetic Radiation Absorption Studies, University of Ottawa, Bioelectro magnetics, Canada: 1987, pp. 29-36.
- [14] Q. Balzano, O. Garay, T. Manning Jr., Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.
- [15] W. Gander, Computer mathematick, Birkhaeuser, Basel, 1992.
- [16] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, Numerical Recepies in C, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.
- [17] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.
- [18] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10 kHz-300 GHz, Jan. 1995.
- [19] Prof. Dr. Niels Kuster, ETH, EidgenØssische Technische Hoschschule ZØrich, Dosimetric Evaluation of the Cellular Phone.

- [20] IEC 62209-1, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation and procedures – Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz), July. 2016..
- [21] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) Mar. 2010.
- [22] Industry Canada RSS-102 Radio Frequency Exposure Compliance of Radio Communication Apparatus (All Frequency Band) Issue 5, March 2015.
- [23] Health Canada Safety Code 6 Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency Range from 3 kHz – 300 GHz, 2009
- [24] FCC SAR Test procedures for 2G-3G Devices, Mobile Hotspot and UMPC Device KDB 941225 D01.
- [25] SAR Measurement Guidance for IEEE 802.11 transmitters, KDB 248227 D01v02r02
- [26] SAR Evaluation of Handsets with Multiple Transmitters and Antennas KDB 648474 D03, D04.
- [27] SAR Evaluation for Laptop, Notebook, Netbook and Tablet computers KDB 616217 D04.
- [28] SAR Measurement and Reporting Requirements for 100 MHz – 6 GHz, KDB 865664 D01, D02.
- [29] FCC General RF Exposure Guidance and SAR procedures for Dongles, KDB 447498 D01,D02.

Appendix A. DUT Ant. Information & SETUP PHOTO

Please refer to test DUT Ant. Information & setup photo file no. as follows:

Report No.
HCT-SR-2105-FC007-P