



18. Test Results List

18.1. Test Guidance

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor.
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - a. ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - b. ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - c. ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for tablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
6. Per KDB248227 D01v02r02, a Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement. The test frequencies established using test mode must correspond to the actual channel frequencies required for operations in the U.S. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. In addition, a periodic



transmission duty factor is required for current generation SAR systems to measure SAR correctly. Unless it is permitted by specific KDB procedures or continuous transmission is specifically restricted by the device, the reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. When a device is not capable of sustaining continuous transmission or the output can become nonlinear, and it is limited by hardware design and unable to transmit at higher than 85% duty factor, a periodic duty factor within 15% of the maximum duty factor the device is capable of transmitting should be used. The reported SAR must be scaled to the maximum transmission duty factor to determine compliance. Descriptions of the procedures applied to establish the specific duty factor used for SAR testing are required in SAR reports to support the test results.

7. The EUT respectively defined the top and bottom antenna maximum power in the software. The top and bottom antenna will switch automatically according to the receiver signal strength and maximum transmission power level.
8. For CA intra-band uplink, SAR measurement was performed at the worst condition of standalone carrier, and it was performed separately for CA inter-band uplink according to the TCB workshop publication in October 2018.
9. The 5G NR (NSA) SAR measurement procedure should be followed the TCB workshop publication in October 2020:
 - a. If the signal uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg no additional measurements need to be performed.
 - b. If one or the signal uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB Publication 865664 D01. And PAG is required for this case.
 - c. If the algebraic sum of the 1-g SAR values is > 1.45 W/kg additional measurements may have to be made. Submit a KDB inquiry for additional guidance and PAG is required for this case.
 - d. When the algebraic sum of the 1-g SAR values is > 1.6 W/kg, SPLSR analysis procedure should be applied.



18.2. Head SAR Data

➤ GSM Head SAR

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 2								
	GPRS 850(4 TX slots)	Right Cheek	251	26.56	27.00	1.107	0.209	0.231
1#	GPRS 850(4 TX slots)	Right Tilt	251	26.56	27.00	1.107	0.222	0.246
	GPRS 850(4 TX slots)	Left Cheek	251	26.56	27.00	1.107	0.187	0.207
	GPRS 850(4 TX slots)	Left Tilt	251	26.56	27.00	1.107	0.111	0.123
Ant 0								
	GPRS 850(4 TX slots)	Right Cheek	251	30.42	31.00	1.143	0.049	0.056
	GPRS 850(4 TX slots)	Right Tilt	251	30.42	31.00	1.143	0.020	0.023
	GPRS 850(4 TX slots)	Left Cheek	251	30.42	31.00	1.143	0.052	0.059
	GPRS 850(4 TX slots)	Left Tilt	251	30.42	31.00	1.143	0.028	0.032
Ant 3								
	GPRS 1900(4 TX slots)	Right Cheek	661	25.48	26.00	1.127	0.396	0.446
2#	GPRS 1900(4 TX slots)	Right Tilt	661	25.48	26.00	1.127	0.516	0.582
	GPRS 1900(4 TX slots)	Left Cheek	661	25.48	26.00	1.127	0.384	0.433
	GPRS 1900(4 TX slots)	Left Tilt	661	25.48	26.00	1.127	0.508	0.573



➤ **WCDMA Head SAR**

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 3								
	Band II/RMC 12.2Kbps	Right Cheek	9400	22.52	23.00	1.117	0.208	0.232
3#	Band II/RMC 12.2Kbps	Right Tilt	9400	22.52	23.00	1.117	0.277	0.309
	Band II/RMC 12.2Kbps	Left Cheek	9400	22.52	23.00	1.117	0.183	0.204
	Band II/RMC 12.2Kbps	Left Tilt	9400	22.52	23.00	1.117	0.257	0.287
Ant 3								
	Band IV/RMC 12.2Kbps	Right Cheek	1413	22.82	23.50	1.169	0.349	0.408
4#	Band IV/RMC 12.2Kbps	Right Tilt	1413	22.82	23.50	1.169	0.444	0.519
	Band IV/RMC 12.2Kbps	Left Cheek	1413	22.82	23.50	1.169	0.316	0.370
	Band IV/RMC 12.2Kbps	Left Tilt	1413	22.82	23.50	1.169	0.436	0.510
Ant 2								
5#	Band V/RMC 12.2Kbps	Right Cheek	4233	21.15	22.00	1.216	0.373	0.454
	Band V/RMC 12.2Kbps	Right Tilt	4233	21.15	22.00	1.216	0.215	0.261
	Band V/RMC 12.2Kbps	Left Cheek	4233	21.15	22.00	1.216	0.106	0.129
	Band V/RMC 12.2Kbps	Left Tilt	4233	21.15	22.00	1.216	0.032	0.039
Ant 0								
	Band V/RMC 12.2Kbps	Right Cheek	4233	23.85	24.50	1.161	0.006	0.007
	Band V/RMC 12.2Kbps	Right Tilt	4233	23.85	24.50	1.161	0.007	0.008
	Band V/RMC 12.2Kbps	Left Cheek	4233	23.85	24.50	1.161	0.008	0.009
	Band V/RMC 12.2Kbps	Left Tilt	4233	23.85	24.50	1.161	0.003	0.003



➤ LTE QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 3								
	LTE Band 2/1RB#0 20M	Right Cheek	18900	21.76	22.50	1.186	0.202	0.240
6#	LTE Band 2/1RB#0 20M	Right Tilt	18900	21.76	22.50	1.186	0.267	0.317
	LTE Band 2/1RB#0 20M	Left Cheek	18900	21.76	22.50	1.186	0.211	0.250
	LTE Band 2/1RB#0 20M	Left Tilt	18900	21.76	22.50	1.186	0.230	0.273
Ant 2								
	LTE Band 2/50RB#0 20M	Right Cheek	18900	20.69	21.50	1.205	0.184	0.222
	LTE Band 2/50RB#0 20M	Right Tilt	18900	20.69	21.50	1.205	0.236	0.284
	LTE Band 2/50RB#0 20M	Left Cheek	18900	20.69	21.50	1.205	0.193	0.233
	LTE Band 2/50RB#0 20M	Left Tilt	18900	20.69	21.50	1.205	0.200	0.241
Ant 2								
7#	LTE Band 5/1RB#0 10M	Right Cheek	20525	24.47	25.00	1.130	0.345	0.390
	LTE Band 5/1RB#0 10M	Right Tilt	20525	24.47	25.00	1.130	0.333	0.376
	LTE Band 5/1RB#0 10M	Left Cheek	20525	24.47	25.00	1.130	0.220	0.249
	LTE Band 5/1RB#0 10M	Left Tilt	20525	24.47	25.00	1.130	0.140	0.158
Ant 0								
	LTE Band 5/25RB#0 10M	Right Cheek	20525	23.32	24.00	1.169	0.286	0.334
	LTE Band 5/25RB#0 10M	Right Tilt	20525	23.32	24.00	1.169	0.235	0.275
	LTE Band 5/25RB#0 10M	Left Cheek	20525	23.32	24.00	1.169	0.164	0.192
	LTE Band 5/25RB#0 10M	Left Tilt	20525	23.32	24.00	1.169	0.104	0.122
Ant 0								
	LTE Band 5/1RB#0 10M	Right Cheek	20525	22.69	23.50	1.205	0.024	0.029
	LTE Band 5/1RB#0 10M	Right Tilt	20525	22.69	23.50	1.205	0.015	0.018
	LTE Band 5/1RB#0 10M	Left Cheek	20525	22.69	23.50	1.205	0.027	0.033
	LTE Band 5/1RB#0 10M	Left Tilt	20525	22.69	23.50	1.205	0.016	0.019
Ant 0								
	LTE Band 5/25RB#0 10M	Right Cheek	20525	21.54	22.50	1.247	0.019	0.024
	LTE Band 5/25RB#0 10M	Right Tilt	20525	21.54	22.50	1.247	0.014	0.017
	LTE Band 5/25RB#0 10M	Left Cheek	20525	21.54	22.50	1.247	0.022	0.027
	LTE Band 5/25RB#0 10M	Left Tilt	20525	21.54	22.50	1.247	0.014	0.017
	LTE Band 5B/1RB#0 10M	Right Cheek	20525	24.27	25.00	1.183	0.266	0.315



Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 2								
8#	LTE Band 12/1RB#0 10M	Right Cheek	23060	24.42	25.00	1.143	0.190	0.217
	LTE Band 12/1RB#0 10M	Right Tilt	23060	24.42	25.00	1.143	0.115	0.131
	LTE Band 12/1RB#0 10M	Left Cheek	23060	24.42	25.00	1.143	0.086	0.098
	LTE Band 12/1RB#0 10M	Left Tilt	23060	24.42	25.00	1.143	0.069	0.079
Ant 0								
	LTE Band 12/25RB#0 10M	Right Cheek	23060	23.47	24.00	1.130	0.111	0.125
	LTE Band 12/25RB#0 10M	Right Tilt	23060	23.47	24.00	1.130	0.102	0.115
	LTE Band 12/25RB#0 10M	Left Cheek	23060	23.47	24.00	1.130	0.062	0.070
	LTE Band 12/25RB#0 10M	Left Tilt	23060	23.47	24.00	1.130	0.051	0.058
Ant 0								
	LTE Band 12/1RB#0 10M	Right Cheek	23060	23.93	24.50	1.140	0.031	0.035
	LTE Band 12/1RB#0 10M	Right Tilt	23060	23.93	24.50	1.140	0.014	0.016
	LTE Band 12/1RB#0 10M	Left Cheek	23060	23.93	24.50	1.140	0.060	0.068
	LTE Band 12/1RB#0 10M	Left Tilt	23060	23.93	24.50	1.140	0.015	0.017
Ant 2								
	LTE Band 12/25RB#0 10M	Right Cheek	23060	22.92	23.50	1.143	0.024	0.027
	LTE Band 12/25RB#0 10M	Right Tilt	23060	22.92	23.50	1.143	0.011	0.013
	LTE Band 12/25RB#0 10M	Left Cheek	23060	22.92	23.50	1.143	0.049	0.056
	LTE Band 12/25RB#0 10M	Left Tilt	23060	22.92	23.50	1.143	0.012	0.014
Ant 2								
	LTE Band 13/1RB#25 10M	Right Cheek	23230	24.20	25.00	1.202	0.126	0.151
9#	LTE Band 13/1RB#25 10M	Right Tilt	23230	24.20	25.00	1.202	0.229	0.275
	LTE Band 13/1RB#25 10M	Left Cheek	23230	24.20	25.00	1.202	0.072	0.087
	LTE Band 13/1RB#25 10M	Left Tilt	23230	24.20	25.00	1.202	0.091	0.109
Ant 0								
	LTE Band 13/25RB#25 10M	Right Cheek	23230	23.17	24.00	1.211	0.110	0.133
	LTE Band 13/25RB#25 10M	Right Tilt	23230	23.17	24.00	1.211	0.143	0.173
	LTE Band 13/25RB#25 10M	Left Cheek	23230	23.17	24.00	1.211	0.064	0.077
	LTE Band 13/25RB#25 10M	Left Tilt	23230	23.17	24.00	1.211	0.086	0.104
Ant 0								
	LTE Band 13/1RB#25 10M	Right Cheek	23230	23.99	24.50	1.125	0.051	0.057
	LTE Band 13/1RB#25 10M	Right Tilt	23230	23.99	24.50	1.125	0.032	0.036
	LTE Band 13/1RB#25 10M	Left Cheek	23230	23.99	24.50	1.125	0.048	0.054
	LTE Band 13/1RB#25 10M	Left Tilt	23230	23.99	24.50	1.125	0.049	0.055



Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
	LTE Band 13/25RB#25 10M	Right Cheek	23230	22.75	23.50	1.189	0.050	0.059
	LTE Band 13/25RB#25 10M	Right Tilt	23230	22.75	23.50	1.189	0.028	0.033
	LTE Band 13/25RB#25 10M	Left Cheek	23230	22.75	23.50	1.189	0.040	0.048
	LTE Band 13/25RB#25 10M	Left Tilt	23230	22.75	23.50	1.189	0.045	0.053
Ant 3								
	LTE Band 66/1RB#0 20M	Right Cheek	132322	21.61	22.00	1.094	0.266	0.291
10#	LTE Band 66/1RB#0 20M	Right Tilt	132322	21.61	22.00	1.094	0.350	0.383
	LTE Band 66/1RB#0 20M	Left Cheek	132322	21.61	22.00	1.094	0.259	0.283
	LTE Band 66/1RB#0 20M	Left Tilt	132322	21.61	22.00	1.094	0.314	0.344
	LTE Band 66/50RB#0 10M	Right Cheek	132322	20.72	21.00	1.067	0.212	0.226
	LTE Band 66/50RB#0 10M	Right Tilt	132322	20.72	21.00	1.067	0.316	0.337
	LTE Band 66/50RB#0 10M	Left Cheek	132322	20.72	21.00	1.067	0.200	0.213
	LTE Band 66/50RB#0 10M	Left Tilt	132322	20.72	21.00	1.067	0.286	0.305
	LTE Band 66C/1RB#0 20M	Right Tilt	132072	19.78	20.00	1.052	0.237	0.249



➤ 5G NR DFT-s-QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 3								
11#	NR N2/1RB#1 20M	Right Cheek	376000	21.99	22.55	1.138	0.479	0.545
	NR N2/1RB#1 20M	Right Tilt	376000	21.99	22.55	1.138	0.067	0.076
	NR N2/1RB#1 20M	Left Cheek	376000	21.99	22.55	1.138	0.237	0.270
	NR N2/1RB#1 20M	Left Tilt	376000	21.99	22.55	1.138	0.036	0.041
	NR N2/50RB#1 20M	Right Cheek	376000	21.69	22.00	1.074	0.423	0.454
	NR N2/50RB#1 20M	Right Tilt	376000	21.69	22.00	1.074	0.054	0.058
	NR N2/50RB#1 20M	Left Cheek	376000	21.69	22.00	1.074	0.200	0.215
	NR N2/50RB#1 20M	Left Tilt	376000	21.69	22.00	1.074	0.024	0.026
Ant 2								
12#	NR N5/1RB#1 20M	Right Cheek	167800	20.77	21.50	1.183	0.292	0.345
	NR N5/1RB#1 20M	Right Tilt	167800	20.77	21.50	1.183	0.160	0.189
	NR N5/1RB#1 20M	Left Cheek	167800	20.77	21.50	1.183	0.122	0.144
	NR N5/1RB#1 20M	Left Tilt	167800	20.77	21.50	1.183	0.116	0.137
	NR N5/50RB#25 20M	Right Cheek	167800	20.13	20.50	1.089	0.255	0.278
	NR N5/50RB#25 20M	Right Tilt	167800	20.13	20.50	1.089	0.142	0.155
	NR N5/50RB#25 20M	Left Cheek	167800	20.13	20.50	1.089	0.111	0.121
	NR N5/50RB#25 20M	Left Tilt	167800	20.13	20.50	1.089	0.096	0.105
Ant 0								
	NR N5/1RB#1 20M	Right Cheek	167800	20.77	21.50	1.183	0.028	0.033
	NR N5/1RB#1 20M	Right Tilt	167800	20.77	21.50	1.183	0.014	0.017
	NR N5/1RB#1 20M	Left Cheek	167800	20.77	21.50	1.183	0.024	0.028
	NR N5/1RB#1 20M	Left Tilt	167800	20.77	21.50	1.183	0.015	0.018
	NR N5/50RB#25 20M	Right Cheek	167800	20.13	20.50	1.089	0.021	0.023
	NR N5/50RB#25 20M	Right Tilt	167800	20.13	20.50	1.089	0.007	0.008
	NR N5/50RB#25 20M	Left Cheek	167800	20.13	20.50	1.089	0.017	0.019
	NR N5/50RB#25 20M	Left Tilt	167800	20.13	20.50	1.089	0.008	0.009



Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 3								
13#	NR N66/1RB#1 20M	Right Cheek	349000	22.91	23.50	1.146	0.287	0.329
	NR N66/1RB#1 20M	Right Tilt	349000	22.91	23.50	1.146	0.048	0.055
	NR N66/1RB#1 20M	Left Cheek	349000	22.91	23.50	1.146	0.147	0.168
	NR N66/1RB#1 20M	Left Tilt	349000	22.91	23.50	1.146	0.026	0.030
Ant 3								
	NR N66/36RB#1 20M	Right Cheek	349000	22.68	23.00	1.076	0.158	0.170
	NR N66/36RB#1 20M	Right Tilt	349000	22.68	23.00	1.076	0.031	0.033
	NR N66/36RB#1 20M	Left Cheek	349000	22.68	23.00	1.076	0.100	0.108
	NR N66/36RB#1 20M	Left Tilt	349000	22.68	23.00	1.076	0.020	0.022
Ant 3								
	NR N77/1RB#1 100M	Right Cheek	654800	23.24	23.50	1.062	0.423	0.449
14#	NR N77/1RB#1 100M	Right Tilt	654800	23.24	23.50	1.062	0.521	0.553
	NR N77/1RB#1 100M	Left Cheek	654800	23.24	23.50	1.062	0.444	0.471
	NR N77/1RB#1 100M	Left Tilt	654800	23.24	23.50	1.062	0.465	0.494
Ant 3								
	NR N77/135RB#1 100M	Right Cheek	654800	22.65	23.00	1.084	0.382	0.414
	NR N77/135RB#1 100M	Right Tilt	654800	22.65	23.00	1.084	0.491	0.532
	NR N77/135RB#1 100M	Left Cheek	654800	22.65	23.00	1.084	0.400	0.434
	NR N77/135RB#1 100M	Left Tilt	654800	22.65	23.00	1.084	0.433	0.469

➤ **WLAN Head SAR**

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 5 (CH0)								
	WLAN2.4GHz/802.11b	Right Cheek	11	16.21	17.00	1.199	0.121	0.145
	WLAN2.4GHz/802.11b	Right Tilt	11	16.21	17.00	1.199	0.072	0.086
15#	WLAN2.4GHz/802.11b	Left Cheek	11	16.21	17.00	1.199	0.221	0.265
	WLAN2.4GHz/802.11b	Left Tilt	11	16.21	17.00	1.199	0.100	0.120
Ant 9 (CH1)								
	WLAN2.4GHz/802.11b	Right Cheek	1	17.47	18.00	1.130	0.066	0.075
	WLAN2.4GHz/802.11b	Right Tilt	1	17.47	18.00	1.130	0.077	0.087
	WLAN2.4GHz/802.11b	Left Cheek	1	17.47	18.00	1.130	0.111	0.125
	WLAN2.4GHz/802.11b	Left Tilt	1	17.47	18.00	1.130	0.137	0.155



Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 5 (CH0)								
	WLAN5.2GHz/802.11n40	Right Cheek	48	8.27	9.00	1.183	0.098	0.118
	WLAN5.2GHz/802.11n40	Right Tilt	48	8.27	9.00	1.183	0.116	0.140
	WLAN5.2GHz/802.11n40	Left Cheek	48	8.27	9.00	1.183	0.173	0.209
	WLAN5.2GHz/802.11n40	Left Tilt	48	8.27	9.00	1.183	0.123	0.148
Ant 6 (CH1)								
	WLAN5.2GHz/802.11a	Right Cheek	44	14.80	15.50	1.175	0.115	0.138
	WLAN5.2GHz/802.11a	Right Tilt	44	14.80	15.50	1.175	0.124	0.149
	WLAN5.2GHz/802.11a	Left Cheek	44	14.80	15.50	1.175	0.246	0.295
16#	WLAN5.2GHz/802.11a	Left Tilt	44	14.80	15.50	1.175	0.322	0.386
Ant 5 (CH0)								
	WLAN5.3GHz/802.11a	Right Cheek	60	8.26	9.00	1.186	0.096	0.116
	WLAN5.3GHz/802.11a	Right Tilt	60	8.26	9.00	1.186	0.093	0.112
	WLAN5.3GHz/802.11a	Left Cheek	60	8.26	9.00	1.186	0.165	0.200
	WLAN5.3GHz/802.11a	Left Tilt	60	8.26	9.00	1.186	0.120	0.145
Ant 6 (CH1)								
	WLAN5.3GHz/802.11a	Right Cheek	52	14.62	15.00	1.091	0.121	0.135
	WLAN5.3GHz/802.11a	Right Tilt	52	14.62	15.00	1.091	0.169	0.188
	WLAN5.3GHz/802.11a	Left Cheek	52	14.62	15.00	1.091	0.198	0.220
17#	WLAN5.3GHz/802.11a	Left Tilt	52	14.62	15.00	1.091	0.339	0.377
Ant 5 (CH0)								
	WLAN5.5GHz/802.11a	Right Cheek	144	8.27	9.00	1.183	0.123	0.148
	WLAN5.5GHz/802.11a	Right Tilt	144	8.27	9.00	1.183	0.111	0.134
	WLAN5.5GHz/802.11a	Left Cheek	144	8.27	9.00	1.183	0.141	0.170
	WLAN5.5GHz/802.11a	Left Tilt	144	8.27	9.00	1.183	0.130	0.157
Ant 6 (CH1)								
	WLAN5.5GHz/802.11a	Right Cheek	100	13.91	14.50	1.146	0.105	0.123
	WLAN5.5GHz/802.11a	Right Tilt	100	13.91	14.50	1.146	0.142	0.166
	WLAN5.5GHz/802.11a	Left Cheek	100	13.91	14.50	1.146	0.181	0.211
18#	WLAN5.5GHz/802.11a	Left Tilt	100	13.91	14.50	1.146	0.317	0.370
Ant 5 (CH0)								
	WLAN5.8GHz/802.11a	Right Cheek	165	8.28	9.00	1.180	0.041	0.049
	WLAN5.8GHz/802.11a	Right Tilt	165	8.28	9.00	1.180	0.035	0.042
	WLAN5.8GHz/802.11a	Left Cheek	165	8.28	9.00	1.180	0.097	0.117
	WLAN5.8GHz/802.11a	Left Tilt	165	8.28	9.00	1.180	0.048	0.058



Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 6 (CH1)								
	WLAN5.8GHz/802.11a	Right Cheek	149	13.47	14.00	1.130	0.100	0.115
	WLAN5.8GHz/802.11a	Right Tilt	149	13.47	14.00	1.130	0.121	0.139
	WLAN5.8GHz/802.11a	Left Cheek	149	13.47	14.00	1.130	0.171	0.197
19#	WLAN5.8GHz/802.11a	Left Tilt	149	13.47	14.00	1.130	0.197	0.227

Note:

1. Per KDB 447498 D01v06, for each exposure position, if the highest output power channel Reported SAR \leq 0.8W/kg, other channels SAR testing is not necessary.
2. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is \geq 0.8W/kg.
3. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are \leq 0.8 W/kg.
4. Per KDB 248227 D01v02r02, for 802.11b DSSS , when the reported SAR of the highest measured maximum output power channel for the exposure configuration is \leq 0.8 W/kg, no further SAR testing is required in that exposure configuration.
5. Per KDB 248227 D01v02r02, OFDM SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is \leq 1.2 W/kg.
6. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
7. The WLAN Reported 1g SAR (W/kg) has been calculated together with the duty cycle scaling factor 1.0 for 2.4G WLAN and 1.02 for 5G WLAN.



18.3. Body SAR Data

➤ **GSM Body SAR**

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 2								
	GPRS 850(4 TX slots)	Front Side	251	26.56	27.00	1.107	0.091	0.101
20#	GPRS 850(4 TX slots)	Back Side	251	26.56	27.00	1.107	0.108	0.120
	GPRS 850(4 TX slots)	Left Side	251	26.56	27.00	1.107	0.062	0.069
	GPRS 850(4 TX slots)	Right Side	251	26.56	27.00	1.107	0.022	0.024
	GPRS 850(4 TX slots)	Top Side	251	26.56	27.00	1.107	0.094	0.104
Ant 0								
	GPRS 850(4 TX slots)	Front Side	251	30.42	31.00	1.143	0.061	0.070
	GPRS 850(4 TX slots)	Back Side	251	30.42	31.00	1.143	0.075	0.086
	GPRS 850(4 TX slots)	Left Side	251	30.42	31.00	1.143	0.055	0.063
	GPRS 850(4 TX slots)	Right Side	251	30.42	31.00	1.143	0.031	0.035
	GPRS 850(4 TX slots)	Bottom Side	251	30.42	31.00	1.143	0.070	0.080
Ant 3								
	GPRS 1900(4 TX slots)	Front Side	661	25.48	26.00	1.127	0.040	0.045
21#	GPRS 1900(4 TX slots)	Back Side	661	25.48	26.00	1.127	0.082	0.092
	GPRS 1900(4 TX slots)	Left Side	661	25.48	26.00	1.127	0.020	0.022
	GPRS 1900(4 TX slots)	Right Side	661	25.48	26.00	1.127	0.004	0.004
22#	GPRS 1900(4 TX slots)	Top Side	661	25.48	26.00	1.127	0.101	0.114



➤ **WCDMA Body SAR**

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 3								
	Band II/RMC 12.2Kbps	Front Side	9400	22.52	23.00	1.117	0.072	0.080
23#	Band II/RMC 12.2Kbps	Back Side	9400	22.52	23.00	1.117	0.147	0.164
	Band II/RMC 12.2Kbps	Left Side	9400	22.52	23.00	1.117	0.035	0.039
	Band II/RMC 12.2Kbps	Right Side	9400	22.52	23.00	1.117	0.011	0.012
24#	Band II/RMC 12.2Kbps	Top Side	9400	22.52	23.00	1.117	0.175	0.195
Ant 3								
	Band IV/RMC 12.2Kbps	Front Side	1413	22.82	23.50	1.169	0.118	0.138
25#	Band IV/RMC 12.2Kbps	Back Side	1413	22.82	23.50	1.169	0.212	0.248
	Band IV/RMC 12.2Kbps	Left Side	1413	22.82	23.50	1.169	0.041	0.048
	Band IV/RMC 12.2Kbps	Right Side	1413	22.82	23.50	1.169	0.015	0.018
26#	Band IV/RMC 12.2Kbps	Top Side	1413	22.82	23.50	1.169	0.303	0.354
Ant 2								
	Band V/RMC 12.2Kbps	Front Side	4233	21.15	22.00	1.216	0.024	0.029
27#	Band V/RMC 12.2Kbps	Back Side	4233	21.15	22.00	1.216	0.057	0.069
	Band V/RMC 12.2Kbps	Left Side	4233	21.15	22.00	1.216	0.048	0.058
	Band V/RMC 12.2Kbps	Right Side	4233	21.15	22.00	1.216	0.018	0.022
	Band V/RMC 12.2Kbps	Top Side	4233	21.15	22.00	1.216	0.050	0.061
Ant 0								
	Band V/RMC 12.2Kbps	Front Side	4233	23.85	24.50	1.161	0.020	0.023
	Band V/RMC 12.2Kbps	Back Side	4233	23.85	24.50	1.161	0.026	0.030
	Band V/RMC 12.2Kbps	Left Side	4233	23.85	24.50	1.161	0.011	0.013
	Band V/RMC 12.2Kbps	Right Side	4233	23.85	24.50	1.161	0.010	0.012
	Band V/RMC 12.2Kbps	Bottom Side	4233	23.85	24.50	1.161	0.020	0.023



➤ LTE QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 3								
	LTE Band 2/1RB#0 20M	Front Side	18900	21.76	22.50	1.186	0.030	0.035
28#	LTE Band 2/1RB#0 20M	Back Side	18900	21.76	22.50	1.186	0.062	0.074
	LTE Band 2/1RB#0 20M	Left Side	18900	21.76	22.50	1.186	0.007	0.008
	LTE Band 2/1RB#0 20M	Right Side	18900	21.76	22.50	1.186	0.006	0.007
29#	LTE Band 2/1RB#0 20M	Top Side	18900	21.76	22.50	1.186	0.077	0.091
Ant 2								
	LTE Band 2/50RB#0 20M	Front Side	18900	20.69	21.50	1.205	0.022	0.027
	LTE Band 2/50RB#0 20M	Back Side	18900	20.69	21.50	1.205	0.048	0.058
	LTE Band 2/50RB#0 20M	Left Side	18900	20.69	21.50	1.205	0.005	0.006
	LTE Band 2/50RB#0 20M	Right Side	18900	20.69	21.50	1.205	0.002	0.002
	LTE Band 2/50RB#0 20M	Top Side	18900	20.69	21.50	1.205	0.059	0.071
Ant 2								
	LTE Band 5/1RB#0 10M	Front Side	20525	24.47	25.00	1.130	0.034	0.038
30#	LTE Band 5/1RB#0 10M	Back Side	20525	24.47	25.00	1.130	0.049	0.055
	LTE Band 5/1RB#0 10M	Left Side	20525	24.47	25.00	1.130	0.036	0.041
	LTE Band 5/1RB#0 10M	Right Side	20525	24.47	25.00	1.130	0.016	0.018
	LTE Band 5/1RB#0 10M	Top Side	20525	24.47	25.00	1.130	0.039	0.044
Ant 0								
	LTE Band 5/25RB#0 10M	Front Side	20525	23.32	24.00	1.169	0.030	0.035
	LTE Band 5/25RB#0 10M	Back Side	20525	23.32	24.00	1.169	0.041	0.048
	LTE Band 5/25RB#0 10M	Left Side	20525	23.32	24.00	1.169	0.033	0.039
	LTE Band 5/25RB#0 10M	Right Side	20525	23.32	24.00	1.169	0.013	0.015
	LTE Band 5/25RB#0 10M	Top Side	20525	23.32	24.00	1.169	0.034	0.040
Ant 0								
	LTE Band 5/1RB#0 10M	Front Side	20525	22.69	23.50	1.205	0.030	0.036
	LTE Band 5/1RB#0 10M	Back Side	20525	22.69	23.50	1.205	0.037	0.044
	LTE Band 5/1RB#0 10M	Left Side	20525	22.69	23.50	1.205	0.023	0.028
	LTE Band 5/1RB#0 10M	Right Side	20525	22.69	23.50	1.205	0.017	0.020
	LTE Band 5/1RB#0 10M	Bottom Side	20525	22.69	23.50	1.205	0.027	0.033
Ant 0								
	LTE Band 5/25RB#0 10M	Front Side	20525	21.54	22.50	1.247	0.025	0.031
	LTE Band 5/25RB#0 10M	Back Side	20525	21.54	22.50	1.247	0.030	0.037
	LTE Band 5/25RB#0 10M	Left Side	20525	21.54	22.50	1.247	0.017	0.021
	LTE Band 5/25RB#0 10M	Right Side	20525	21.54	22.50	1.247	0.010	0.012



Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
	LTE Band 5/25RB#0 10M	Bottom Side	20525	21.54	22.50	1.247	0.020	0.025
Ant 2								
31#	LTE Band 5B/1RB#0 10M	Back Side	20525	24.27	25.00	1.183	0.027	0.032
Ant 2								
	LTE Band 12/1RB#0 10M	Front Side	23060	24.42	25.00	1.143	0.046	0.053
32#	LTE Band 12/1RB#0 10M	Back Side	23060	24.42	25.00	1.143	0.079	0.091
	LTE Band 12/1RB#0 10M	Left Side	23060	24.42	25.00	1.143	0.057	0.065
	LTE Band 12/1RB#0 10M	Right Side	23060	24.42	25.00	1.143	0.010	0.011
	LTE Band 12/1RB#0 10M	Top Side	23060	24.42	25.00	1.143	0.031	0.035
Ant 0								
	LTE Band 12/25RB#0 10M	Front Side	23060	23.47	24.00	1.130	0.020	0.023
	LTE Band 12/25RB#0 10M	Back Side	23060	23.47	24.00	1.130	0.042	0.047
	LTE Band 12/25RB#0 10M	Left Side	23060	23.47	24.00	1.130	0.034	0.038
	LTE Band 12/25RB#0 10M	Right Side	23060	23.47	24.00	1.130	0.009	0.010
	LTE Band 12/25RB#0 10M	Top Side	23060	23.47	24.00	1.130	0.026	0.029
Ant 0								
	LTE Band 12/1RB#0 10M	Front Side	23060	23.93	24.50	1.140	0.044	0.050
	LTE Band 12/1RB#0 10M	Back Side	23060	23.93	24.50	1.140	0.059	0.067
	LTE Band 12/1RB#0 10M	Left Side	23060	23.93	24.50	1.140	0.033	0.038
	LTE Band 12/1RB#0 10M	Right Side	23060	23.93	24.50	1.140	0.040	0.046
	LTE Band 12/1RB#0 10M	Bottom Side	23060	23.93	24.50	1.140	0.045	0.051
Ant 2								
	LTE Band 12/25RB#0 10M	Front Side	23060	22.92	23.50	1.143	0.034	0.039
	LTE Band 12/25RB#0 10M	Back Side	23060	22.92	23.50	1.143	0.040	0.046
	LTE Band 12/25RB#0 10M	Left Side	23060	22.92	23.50	1.143	0.026	0.030
	LTE Band 12/25RB#0 10M	Right Side	23060	22.92	23.50	1.143	0.031	0.035
	LTE Band 12/25RB#0 10M	Bottom Side	23060	22.92	23.50	1.143	0.035	0.040
Ant 2								
	LTE Band 13/1RB#25 10M	Front Side	23230	24.20	25.00	1.202	0.078	0.094
33#	LTE Band 13/1RB#25 10M	Back Side	23230	24.20	25.00	1.202	0.137	0.165
	LTE Band 13/1RB#25 10M	Left Side	23230	24.20	25.00	1.202	0.072	0.087
	LTE Band 13/1RB#25 10M	Right Side	23230	24.20	25.00	1.202	0.019	0.023
	LTE Band 13/1RB#25 10M	Top Side	23230	24.20	25.00	1.202	0.064	0.077



Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
	LTE Band 13/25RB#25 10M	Front Side	23230	23.17	24.00	1.211	0.055	0.067
	LTE Band 13/25RB#25 10M	Back Side	23230	23.17	24.00	1.211	0.091	0.110
	LTE Band 13/25RB#25 10M	Left Side	23230	23.17	24.00	1.211	0.062	0.075
	LTE Band 13/25RB#25 10M	Right Side	23230	23.17	24.00	1.211	0.011	0.013
	LTE Band 13/25RB#25 10M	Top Side	23230	23.17	24.00	1.211	0.052	0.063
Ant 0								
	LTE Band 13/1RB#0 10M	Front Side	23230	23.99	24.50	1.125	0.022	0.025
	LTE Band 13/1RB#0 10M	Back Side	23230	23.99	24.50	1.125	0.036	0.041
	LTE Band 13/1RB#0 10M	Left Side	23230	23.99	24.50	1.125	0.020	0.022
	LTE Band 13/1RB#0 10M	Right Side	23230	23.99	24.50	1.125	0.018	0.020
	LTE Band 13/1RB#0 10M	Bottom Side	23230	23.99	24.50	1.125	0.028	0.031
	LTE Band 13/25RB#25 10M	Front Side	23230	22.75	23.50	1.189	0.020	0.024
	LTE Band 13/25RB#25 10M	Back Side	23230	22.75	23.50	1.189	0.031	0.037
	LTE Band 13/25RB#25 10M	Left Side	23230	22.75	23.50	1.189	0.018	0.021
	LTE Band 13/25RB#25 10M	Right Side	23230	22.75	23.50	1.189	0.014	0.017
	LTE Band 13/25RB#25 10M	Bottom Side	23230	22.75	23.50	1.189	0.023	0.027
Ant 3								
	LTE Band 66/1RB#0 20M	Front Side	132322	21.61	22.00	1.094	0.011	0.012
34#	LTE Band 66/1RB#0 20M	Back Side	132322	21.61	22.00	1.094	0.021	0.023
	LTE Band 66/1RB#0 20M	Left Side	132322	21.61	22.00	1.094	0.005	0.005
	LTE Band 66/1RB#0 20M	Right Side	132322	21.61	22.00	1.094	0.004	0.004
35#	LTE Band 66/1RB#0 20M	Top Side	132322	21.61	22.00	1.094	0.028	0.031
	LTE Band 66/1RB#0 20M	Front Side	132322	20.72	21.00	1.067	0.009	0.010
	LTE Band 66/1RB#0 20M	Back Side	132322	20.72	21.00	1.067	0.018	0.019
	LTE Band 66/1RB#0 20M	Left Side	132322	20.72	21.00	1.067	0.004	0.004
	LTE Band 66/1RB#0 20M	Right Side	132322	20.72	21.00	1.067	0.003	0.003
	LTE Band 66/1RB#0 20M	Top Side	132322	20.72	21.00	1.067	0.025	0.026
36#	LTE Band 66C/1RB#0 20M	Top Side	132072	19.78	20.00	1.052	0.022	0.023



➤ 5G NR DFT-s-QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 3								
	NR N2/1RB#1 20M	Front Side	376000	21.99	22.50	1.125	0.058	0.065
37#	NR N2/1RB#1 20M	Back Side	376000	21.99	22.50	1.125	0.181	0.204
38#	NR N2/1RB#1 20M	Left Side	376000	21.99	22.50	1.125	0.219	0.246
	NR N2/1RB#1 20M	Right Side	376000	21.99	22.50	1.125	0.004	0.004
	NR N2/1RB#1 20M	Top Side	376000	21.99	22.50	1.125	0.008	0.009
Ant 2								
	NR N2/50RB#1 20M	Front Side	376000	21.69	22.00	1.074	0.046	0.049
	NR N2/50RB#1 20M	Back Side	376000	21.69	22.00	1.074	0.173	0.186
	NR N2/50RB#1 20M	Left Side	376000	21.69	22.00	1.074	0.190	0.204
	NR N2/50RB#1 20M	Right Side	376000	21.69	22.00	1.074	0.003	0.003
	NR N2/50RB#1 20M	Top Side	376000	21.69	22.00	1.074	0.007	0.008
Ant 2								
	NR N5/1RB#1 20M	Front Side	167800	22.50	23.00	1.122	0.098	0.110
39#	NR N5/1RB#1 20M	Back Side	167800	22.50	23.00	1.122	0.149	0.167
	NR N5/1RB#1 20M	Left Side	167800	22.50	23.00	1.122	0.058	0.065
	NR N5/1RB#1 20M	Right Side	167800	22.50	23.00	1.122	0.011	0.012
	NR N5/1RB#1 20M	Top Side	167800	22.50	23.00	1.122	0.110	0.123
Ant 0								
	NR N5/50RB#25 20M	Front Side	167800	22.35	22.50	1.035	0.083	0.086
	NR N5/50RB#25 20M	Back Side	167800	22.35	22.50	1.035	0.126	0.130
	NR N5/50RB#25 20M	Left Side	167800	22.35	22.50	1.035	0.044	0.046
	NR N5/50RB#25 20M	Right Side	167800	22.35	22.50	1.035	0.010	0.010
	NR N5/50RB#25 20M	Top Side	167800	22.35	22.50	1.035	0.103	0.107
Ant 0								
	NR N5/1RB#1 20M	Front Side	167800	22.50	23.00	1.122	0.069	0.077
	NR N5/1RB#1 20M	Back Side	167800	22.50	23.00	1.122	0.138	0.155
	NR N5/1RB#1 20M	Left Side	167800	22.50	23.00	1.122	0.010	0.011
	NR N5/1RB#1 20M	Right Side	167800	22.50	23.00	1.122	0.034	0.038
	NR N5/1RB#1 20M	Bottom Side	167800	22.50	23.00	1.122	0.078	0.088



Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
	NR N5/50RB#25 20M	Front Side	167800	22.35	22.50	1.035	0.060	0.062
	NR N5/50RB#25 20M	Back Side	167800	22.35	22.50	1.035	0.129	0.134
	NR N5/50RB#25 20M	Left Side	167800	22.35	22.50	1.035	0.009	0.009
	NR N5/50RB#25 20M	Right Side	167800	22.35	22.50	1.035	0.025	0.026
	NR N5/50RB#25 20M	Bottom Side	167800	22.35	22.50	1.035	0.064	0.066
Ant 8								
	NR N66/1RB#1 20M	Front Side	349000	22.91	23.50	1.146	0.032	0.036
40#	NR N66/1RB#1 20M	Back Side	349000	22.91	23.50	1.146	0.078	0.089
41#	NR N66/1RB#1 20M	Left Side	349000	22.91	23.50	1.146	0.086	0.099
	NR N66/1RB#1 20M	Right Side	349000	22.91	23.50	1.146	0.026	0.030
	NR N66/1RB#1 20M	Top Side	349000	22.91	23.50	1.146	0.006	0.006
	NR N66/36RB#1 20M	Front Side	349000	22.68	23.00	1.076	0.022	0.024
	NR N66/36RB#1 20M	Back Side	349000	22.68	23.00	1.076	0.065	0.070
	NR N66/36RB#1 20M	Left Side	349000	22.68	23.00	1.076	0.060	0.065
	NR N66/36RB#1 20M	Right Side	349000	22.68	23.00	1.076	0.020	0.022
	NR N66/36RB#1 20M	Top Side	349000	22.68	23.00	1.076	0.005	0.005
Ant 3								
	NR N77/1RB#1 100M	Front Side	654800	23.24	23.50	1.062	0.069	0.073
42#	NR N77/1RB#1 100M	Back Side	654800	23.24	23.50	1.062	0.148	0.157
	NR N77/1RB#1 100M	Left Side	654800	23.24	23.50	1.062	0.040	0.042
	NR N77/1RB#1 100M	Right Side	654800	23.24	23.50	1.062	0.100	0.106
43#	NR N77/1RB#1 100M	Top Side	654800	23.24	23.50	1.062	0.301	0.320
	NR N77/135RB#1 100M	Front Side	654800	22.65	23.00	1.084	0.057	0.062
	NR N77/135RB#1 100M	Back Side	654800	22.65	23.00	1.084	0.126	0.137
	NR N77/135RB#1 100M	Left Side	654800	22.65	23.00	1.084	0.033	0.036
	NR N77/135RB#1 100M	Right Side	654800	22.65	23.00	1.084	0.067	0.073
	NR N77/135RB#1 100M	Top Side	654800	22.65	23.00	1.084	0.246	0.267



➤ **WLAN Body SAR**

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 5(CH 0)								
	WLAN2.4GHz/802.11b	Front Side	11	16.21	17.00	1.199	0.041	0.049
	WLAN2.4GHz/802.11b	Back Side	11	16.21	17.00	1.199	0.112	0.134
	WLAN2.4GHz/802.11b	Left Side	11	16.21	17.00	1.199	0.009	0.011
	WLAN2.4GHz/802.11b	Right Side	11	16.21	17.00	1.199	0.061	0.073
	WLAN2.4GHz/802.11b	Top Side	11	16.21	17.00	1.199	0.020	0.024
Ant 9(CH 1)								
	WLAN2.4GHz/802.11b	Front Side	1	17.47	18.00	1.130	0.024	0.027
44#	WLAN2.4GHz/802.11b	Back Side	1	17.47	18.00	1.130	0.122	0.138
	WLAN2.4GHz/802.11b	Left Side	1	17.47	18.00	1.130	0.020	0.023
	WLAN2.4GHz/802.11b	Right Side	1	17.47	18.00	1.130	0.044	0.049
	WLAN2.4GHz/802.11b	Top Side	1	17.47	18.00	1.130	0.060	0.067
Ant 5(CH 0)								
	WLAN5.2GHz/802.11a	Front Side	48	8.27	9.00	1.183	0.089	0.107
	WLAN5.2GHz/802.11a	Back Side	48	8.27	9.00	1.183	0.191	0.230
	WLAN5.2GHz/802.11a	Right Side	48	8.27	9.00	1.183	0.161	0.194
	WLAN5.2GHz/802.11a	Top Side	48	8.27	9.00	1.183	0.097	0.117
Ant 6(CH 1)								
	WLAN5.2GHz/802.11a	Front Side	44	14.80	15.50	1.175	0.090	0.108
45#	WLAN5.2GHz/802.11a	Back Side	44	14.80	15.50	1.175	0.136	0.163
	WLAN5.2GHz/802.11a	Right Side	44	14.80	15.50	1.175	0.125	0.150
46#	WLAN5.2GHz/802.11a	Top Side	44	14.80	15.50	1.175	0.222	0.266
Ant 5(CH 0)								
	WLAN5.3GHz/802.11a	Front Side	60	8.26	9.00	1.186	0.080	0.097
	WLAN5.3GHz/802.11a	Back Side	60	8.26	9.00	1.186	0.132	0.160
Ant 6(CH 1)								
	WLAN5.3GHz/802.11a	Front Side	52	14.62	15.00	1.091	0.096	0.107
47#	WLAN5.3GHz/802.11a	Back Side	52	14.62	15.00	1.091	0.154	0.171
Ant 5(CH 0)								
	WLAN5.5GHz/802.11a	Front Side	144	8.27	9.00	1.183	0.066	0.080
	WLAN5.5GHz/802.11a	Back Side	144	8.27	9.00	1.183	0.110	0.133
Ant 6(CH 1)								
	WLAN5.5GHz/802.11a	Front Side	100	13.91	14.50	1.146	0.118	0.138
48#	WLAN5.5GHz/802.11a	Back Side	100	13.91	14.50	1.146	0.196	0.229



Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
Ant 5(CH 0)								
	WLAN5.8GHz/802.11a	Front Side	165	8.28	9.00	1.180	0.015	0.018
	WLAN5.8GHz/802.11a	Back Side	165	8.28	9.00	1.180	0.019	0.023
	WLAN5.8GHz/802.11a	Right Side	165	8.28	9.00	1.180	0.009	0.011
	WLAN5.8GHz/802.11a	Top Side	165	8.28	9.00	1.180	0.015	0.018
Ant 6(CH 1)								
	WLAN5.8GHz/802.11a	Front Side	149	13.47	14.00	1.130	0.211	0.243
49#	WLAN5.8GHz/802.11a	Back Side	149	13.47	14.00	1.130	0.238	0.274
	WLAN5.8GHz/802.11a	Right Side	149	13.47	14.00	1.130	0.028	0.032
	WLAN5.8GHz/802.11a	Top Side	149	13.47	14.00	1.130	0.162	0.187

Note:

The WLAN Reported 1g SAR (W/kg) has been calculated together with the duty cycle scaling factor 1.0 for 2.4G WLAN and 1.02 for 5GHz WLAN.

➤ **Bluetooth Body SAR**

When standalone SAR is not required to be measured, per FCC KDB 447498 D01v06 4.3.2), the following equation must be used to estimate the standalone 1g SAR.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} \cdot \frac{\text{Max. power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power(mW)	Test Distance (mm)	Result	Exclusion Thresholds for 1-g SAR
CH 78	2.48	12.5	17.78	10	2.8	3.0

Mode	Max. Tune-up Power (dBm)	Exposure Position	Body
		Test Distance (mm)	10
Bluetooth	12.5	Estimated SAR (W/kg)	0.373

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{1g} (W/kg)	Reported SAR _{1g} (W/kg)
	Bluetooth/1Mbps	Front Side	78	11.91	12.50	1.146	0.373	0.453
	Bluetooth/1Mbps	Back Side	78	11.91	12.50	1.146	0.373	0.453
	Bluetooth/1Mbps	Right Side	78	11.91	12.50	1.146	0.373	0.453
	Bluetooth/1Mbps	Top Side	78	11.91	12.50	1.146	0.373	0.453

Note: The duty cycle factor of 1.06 should be used to calculating the reported SAR.



18.4. Repeated SAR Assessment

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz. These 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.

1. Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg;
2. When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
4. Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .



18.5. Extremity SAR Assessment

Guidance:

1. According to KDB 648747 D04v01r03 The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB Publication 865664 D01 to address interactive hand use exposure conditions.
2. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.
3. According to the user manual, the EUT diagonal size is greater than 16cm, therefore the 0mm extremity SAR of WLAN 5GHz is required. There are two types of antennas in this device, only the worst antenna was tested the extremity SAR in this report.
4. Test results as below:

Plot No.	Band/Mode	Test Position	CH.	Ave. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Meas. SAR _{10g} (W/kg)	Reported SAR _{10g} (W/kg)
Ant 5 (CH0)								
	WLAN5.3GHz/802.11a	Front Side	60	8.26	9.00	1.186	0.198	0.239
	WLAN5.3GHz/802.11a	Back Side	60	8.26	9.00	1.186	0.310	0.375
Ant 6 (CH1)								
	WLAN5.3GHz/802.11a	Front Side	52	14.62	15.00	1.091	0.233	0.259
50#	WLAN5.3GHz/802.11a	Back Side	52	14.62	15.00	1.091	0.382	0.425
Ant 5 (CH0)								
	WLAN5.5GHz/802.11a	Front Side	144	8.27	9.00	1.183	0.098	0.118
	WLAN5.5GHz/802.11a	Back Side	144	8.27	9.00	1.183	0.274	0.331
Ant 6 (CH1)								
	WLAN5.5GHz/802.11a	Front Side	100	13.91	14.50	1.146	0.268	0.313
51#	WLAN5.5GHz/802.11a	Back Side	100	13.91	14.50	1.146	0.596	0.696



19. Simultaneous Transmission Evaluation

19.1. Simultaneous Transmission Consideration

No.	Simultaneous Transmission Consideration	Head	Body-Worn	Hotspot
1	WWAN(2G/3G/4G)+WLAN 2.4GHz(SISO)	Yes	Yes	Yes
2	WWAN(2G/3G/4G)+WLAN 5.2GHz/5.8GHz(SISO)	Yes	Yes	Yes
3	WWAN(2G/3G/4G)+WLAN 5.3GHz/5.5GHz(SISO)	Yes	Yes	No
4	WWAN 5G NR(FR1)+WLAN 2.4GHz(SISO)	Yes	Yes	Yes
5	WWAN 5G NR(FR1)+WLAN 5.2GHz/5.8GHz SISO)	Yes	Yes	Yes
6	WWAN 5G NR(FR1)+WLAN 5.3GHz/5.5GHz(SISO)	Yes	Yes	No
7	WWAN(2G/3G/4G)+Bluetooth(SISO)	Yes	Yes	Yes
8	WWAN 5G NR(FR1)+Bluetooth(SISO)	Yes	Yes	Yes
9	WLAN 2.4GHz(Ant 3)+Bluetooth(SISO)	Yes	Yes	No
10	WLAN 5.2GHz/5.8GHz(Ant 6)+Bluetooth(SISO)	Yes	Yes	No
11	WLAN 5.3GHz/5.5GHz(Ant 6)+Bluetooth(SISO)	Yes	Yes	No
12	WWAN(2G/3G/4G)+WLAN 2.4GHz(MIMO)	Yes	Yes	Yes
13	WWAN(2G/3G/4G)+WLAN 5GHz(MIMO)	Yes	Yes	Yes
14	WWAN 5G NR(FR1)+WLAN 2.4GHz(MIMO)	Yes	Yes	Yes
15	WWAN 5G NR(FR1)+WLAN 5GHz(MIMO)	Yes	Yes	Yes

Note:

- When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of the WWAN and WLAN transmitters. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.
- The hotspot SAR result may overlap with the body-worn accessory SAR requirements, per KDB 941225 D06, the more conservative configurations can be considered, thus excluding some unnecessary body-worn accessory SAR tests.
- Simultaneous Transmission SAR evaluation is not required for BT and WLAN, because the software mechanism have been incorporated to guarantee that the WLAN and Bluetooth transmitters would not simultaneously operate.
- Per KDB 447498D01v06, simultaneous transmission SAR evaluation procedures is as followed:
 Step 1: If sum of 1 g SAR < 1.6 W/kg, Simultaneous SAR measurement is not required.
 Step 2: If sum of 1 g SAR > 1.6 W/kg, ratio of SAR to peak separation distance for pair of transmitters calculated.
 Step 3: If the ratio of SAR to peak separation distance is ≤ 0.04 , Simultaneous SAR measurement is not required.
 Step 4: If the ratio of SAR to peak separation distance is > 0.04, Simultaneous SAR measurement



is required and simultaneous transmission SAR value is calculated.

(The ratio is determined by: $(SAR1 + SAR2) \wedge 1.5/Ri \leq 0.04$,

Ri is the separation distance between the peak SAR locations for the antenna pair in mm.

5. 2.4G&5G MIMO SAR were combined standalone SAR of CH0 and CH1.
6. When it supports transmit simultaneously at WWAN+WLAN MIMO mode, the co-location SAR of WWAN+WLAN (standalone SAR) would not be recorded in this report.
7. For LTE inter-band CA uplink & EN-DC analysis, the maximum reported SAR of the antenna 0 or antenna 2 for low frequency bands and antenna 3 for high frequency bands would be calculating separately.



19.2. Simultaneous Transmission Analysis for SAR

➤ Head Data for LTE Inter-band CA Uplink Combination

Carrier Component	Exposure Position	Standalone 1g SAR (W/kg)		Summed 1g SAR (W/kg)
		PCC	SCC	
CA_2A-4A	Right Cheek	0.240	0.329	0.569
	Right Tilt	0.317	0.055	0.372
	Left Cheek	0.250	0.168	0.418
	Left Tilt	0.273	0.030	0.303
CA_2A-5A	Right Cheek	0.240	0.390	0.630
	Right Tilt	0.317	0.376	0.693
	Left Cheek	0.250	0.249	0.499
	Left Tilt	0.273	0.158	0.431
CA_2A-12A	Right Cheek	0.240	0.217	0.457
	Right Tilt	0.317	0.131	0.448
	Left Cheek	0.250	0.098	0.348
	Left Tilt	0.273	0.079	0.352
CA_2A-13A	Right Cheek	0.240	0.151	0.391
	Right Tilt	0.317	0.275	0.592
	Left Cheek	0.250	0.087	0.337
	Left Tilt	0.273	0.109	0.382
CA_2A-66A	Right Cheek	0.240	0.329	0.569
	Right Tilt	0.317	0.055	0.372
	Left Cheek	0.250	0.168	0.418
	Left Tilt	0.273	0.030	0.303
CA_4A-5A	Right Cheek	0.329	0.390	0.719
	Right Tilt	0.055	0.376	0.431
	Left Cheek	0.168	0.249	0.417
	Left Tilt	0.030	0.158	0.188
CA_4A-13A	Right Cheek	0.329	0.151	0.480
	Right Tilt	0.055	0.275	0.330
	Left Cheek	0.168	0.087	0.255
	Left Tilt	0.030	0.109	0.139
CA_5A-66A	Right Cheek	0.390	0.329	0.719
	Right Tilt	0.376	0.055	0.431
	Left Cheek	0.249	0.168	0.417
	Left Tilt	0.158	0.030	0.188



Carrier Component	Exposure Position	Standalone 1g SAR (W/kg)		Summed 1g SAR (W/kg)
		PCC	SCC	
CA_13A-66A	Right Cheek	0.151	0.329	0.480
	Right Tilt	0.275	0.055	0.330
	Left Cheek	0.087	0.168	0.255
	Left Tilt	0.109	0.030	0.139

➤ **Head Data for EN-DC Combination**

EN-DC Combination	Exposure Position	Standalone 1g SAR (W/kg)			EN-DC Summed 1g SAR (W/kg)
		LTE Carrier		5G NR	
12A-N2	Right Cheek	0.240	/	0.545	0.785
	Right Tilt	0.317	/	0.076	0.393
	Left Cheek	0.250	/	0.270	0.520
	Left Tilt	0.273	/	0.041	0.314
2A-12A-N2	Right Cheek	0.240	0.217	0.545	1.002
	Right Tilt	0.317	0.131	0.076	0.524
	Left Cheek	0.250	0.098	0.270	0.618
	Left Tilt	0.273	0.079	0.041	0.393
12A-66A-N2	Right Cheek	0.217	0.291	0.545	1.053
	Right Tilt	0.131	0.383	0.076	0.590
	Left Cheek	0.098	0.283	0.270	0.651
	Left Tilt	0.079	0.344	0.041	0.464
13A-66A-N2	Right Cheek	0.151	0.291	0.545	0.987
	Right Tilt	0.275	0.383	0.076	0.734
	Left Cheek	0.087	0.283	0.270	0.640
	Left Tilt	0.109	0.344	0.041	0.494
46A-66A-N5	Right Cheek	/	0.291	0.345	0.636
	Right Tilt	/	0.383	0.189	0.572
	Left Cheek	/	0.283	0.144	0.427
	Left Tilt	/	0.344	0.137	0.481
2A-46D-N5	Right Cheek	0.240	/	0.345	0.585
	Right Tilt	0.317	/	0.189	0.506
	Left Cheek	0.250	/	0.144	0.394
	Left Tilt	0.273	/	0.137	0.410
12A-N66	Right Cheek	0.217	/	0.329	0.546
	Right Tilt	0.131	/	0.055	0.186
	Left Cheek	0.098	/	0.168	0.266
	Left Tilt	0.079	/	0.030	0.109
13A-46A-N66	Right Cheek	0.151	/	0.329	0.480
	Right Tilt	0.275	/	0.055	0.330



	Left Cheek	0.087	/	0.168	0.255
	Left Tilt	0.109	/	0.030	0.139
5A-46A-N66	Right Cheek	0.390	/	0.329	0.719
	Right Tilt	0.376	/	0.055	0.431
	Left Cheek	0.249	/	0.168	0.417
	Left Tilt	0.158	/	0.030	0.188
2A-12A-N66	Right Cheek	0.240	0.217	0.329	0.786
	Right Tilt	0.317	0.131	0.055	0.503
	Left Cheek	0.250	0.098	0.168	0.516
	Left Tilt	0.273	0.079	0.030	0.382
12A-66A-N66	Right Cheek	0.217	0.291	0.329	0.837
	Right Tilt	0.131	0.383	0.055	0.569
	Left Cheek	0.098	0.283	0.168	0.549
	Left Tilt	0.079	0.344	0.030	0.453
2A-46A-N66	Right Cheek	0.240	/	0.329	0.569
	Right Tilt	0.317	/	0.055	0.372
	Left Cheek	0.250	/	0.168	0.418
	Left Tilt	0.273	/	0.030	0.303
13A-N77	Right Cheek	0.151	/	0.449	0.600
	Right Tilt	0.275	/	0.553	0.828
	Left Cheek	0.087	/	0.471	0.558
	Left Tilt	0.109	/	0.494	0.603
5A-N77	Right Cheek	0.390	/	0.449	0.839
	Right Tilt	0.376	/	0.553	0.929
	Left Cheek	0.249	/	0.471	0.720
	Left Tilt	0.158	/	0.494	0.652

EN-DC Combination	Exposure Position	Standalone 1g SAR (W/kg)				EN-DC Summed 1g SAR (W/kg)
		LTE Carrier			5G NR	
12A-66A-66A-N2	Right Cheek	0.217	0.291	0.291	0.545	1.344
	Right Tilt	0.131	0.383	0.383	0.076	0.973
	Left Cheek	0.098	0.283	0.283	0.270	0.934
	Left Tilt	0.079	0.344	0.344	0.041	0.808
2A-12A-12A-N66	Right Cheek	0.240	0.217	0.217	0.329	1.003
	Right Tilt	0.317	0.131	0.131	0.055	0.634
	Left Cheek	0.250	0.098	0.098	0.168	0.614
	Left Tilt	0.273	0.079	0.079	0.030	0.461



➤ **Head Data for WLAN MIMO for 2.4GHz & 5GHz**

Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	3+4 Summed 1g SAR (W/kg)
	2.4GHz WLAN CH 0	2.4GHz WLAN CH 1	5GHz WLAN CH 0	5GHz WLAN CH 1		
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
Right Cheek	0.145	0.075	0.148	0.138	0.220	0.286
Right Tilt	0.086	0.087	0.140	0.188	0.173	0.328
Left Cheek	0.265	0.125	0.209	0.295	0.390	0.504
Left Tilt	0.120	0.155	0.157	0.386	0.275	0.543

➤ **Head Simultaneous Transmission for WWAN(2/3/4G)+WLAN MIMO**

WWAN Band	Exposure Position	1	2	3	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM 850	Right Cheek	0.231	0.220	0.286	0.451	0.517
	Right Tilt	0.246	0.173	0.328	0.419	0.574
	Left Cheek	0.207	0.390	0.504	0.597	0.711
	Left Tilt	0.123	0.275	0.543	0.398	0.666
GSM 1900	Right Cheek	0.446	0.220	0.286	0.666	0.732
	Right Tilt	0.582	0.173	0.328	0.755	0.910
	Left Cheek	0.433	0.390	0.504	0.823	0.937
	Left Tilt	0.573	0.275	0.543	0.848	1.116
WCDMA II	Right Cheek	0.232	0.220	0.286	0.452	0.518
	Right Tilt	0.309	0.173	0.328	0.482	0.637
	Left Cheek	0.204	0.390	0.504	0.594	0.708
	Left Tilt	0.287	0.275	0.543	0.562	0.830
WCDMA IV	Right Cheek	0.408	0.220	0.286	0.628	0.694
	Right Tilt	0.519	0.173	0.328	0.692	0.847
	Left Cheek	0.370	0.390	0.504	0.760	0.874
	Left Tilt	0.510	0.275	0.543	0.785	1.053
WCDMA V	Right Cheek	0.454	0.220	0.286	0.674	0.740
	Right Tilt	0.261	0.173	0.328	0.434	0.589
	Left Cheek	0.129	0.390	0.504	0.519	0.633
	Left Tilt	0.039	0.275	0.543	0.314	0.582
LTE Band 2	Right Cheek	0.240	0.220	0.286	0.460	0.526
	Right Tilt	0.317	0.173	0.328	0.490	0.645
	Left Cheek	0.250	0.390	0.504	0.640	0.754
	Left Tilt	0.273	0.275	0.543	0.548	0.816
LTE Band 5	Right Cheek	0.390	0.220	0.286	0.610	0.676



	Right Tilt	0.376	0.173	0.328	0.549	0.704
	Left Cheek	0.249	0.390	0.504	0.639	0.753
	Left Tilt	0.158	0.275	0.543	0.433	0.701
LTE Band 12	Right Cheek	0.217	0.220	0.286	0.437	0.503
	Right Tilt	0.131	0.173	0.328	0.304	0.459
	Left Cheek	0.098	0.390	0.504	0.488	0.602
	Left Tilt	0.079	0.275	0.543	0.354	0.622
LTE Band 13	Right Cheek	0.151	0.220	0.286	0.371	0.437
	Right Tilt	0.275	0.173	0.328	0.448	0.603
	Left Cheek	0.087	0.390	0.504	0.477	0.591
	Left Tilt	0.109	0.275	0.543	0.384	0.652
LTE Band 66/4	Right Cheek	0.291	0.220	0.286	0.511	0.577
	Right Tilt	0.383	0.173	0.328	0.556	0.711
	Left Cheek	0.283	0.390	0.504	0.673	0.787
	Left Tilt	0.344	0.275	0.543	0.619	0.887

➤ **Head Simultaneous Transmission for WWAN(EN-DC)+WLAN MIMO**

WWAN Band	Exposure Position	1	2	3	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
12A-N2	Right Cheek	0.785	0.220	0.286	1.005	1.071
	Right Tilt	0.393	0.173	0.328	0.566	0.721
	Left Cheek	0.520	0.390	0.504	0.910	1.024
	Left Tilt	0.314	0.275	0.543	0.589	0.857
2A-12A-N2	Right Cheek	1.002	0.220	0.286	1.222	1.288
	Right Tilt	0.524	0.173	0.328	0.697	0.852
	Left Cheek	0.618	0.390	0.504	1.008	1.122
	Left Tilt	0.393	0.275	0.543	0.668	0.936
12A-66A-N2	Right Cheek	1.053	0.220	0.286	1.273	1.339
	Right Tilt	0.590	0.173	0.328	0.763	0.918
	Left Cheek	0.651	0.390	0.504	1.041	1.155
	Left Tilt	0.464	0.275	0.543	0.739	1.007
13A-66A-N2	Right Cheek	0.987	0.220	0.286	1.207	1.273
	Right Tilt	0.734	0.173	0.328	0.907	1.062
	Left Cheek	0.640	0.390	0.504	1.030	1.144
	Left Tilt	0.494	0.275	0.543	0.769	1.037
46A-66A-N5	Right Cheek	0.636	0.220	0.286	0.856	0.922
	Right Tilt	0.572	0.173	0.328	0.745	0.900
	Left Cheek	0.427	0.390	0.504	0.817	0.931
	Left Tilt	0.481	0.275	0.543	0.756	1.024



2A-46D-N5	Right Cheek	0.585	0.220	0.286	0.805	0.871
	Right Tilt	0.506	0.173	0.328	0.679	0.834
	Left Cheek	0.394	0.390	0.504	0.784	0.898
	Left Tilt	0.410	0.275	0.543	0.685	0.953
12A-N66	Right Cheek	0.546	0.220	0.286	0.766	0.832
	Right Tilt	0.186	0.173	0.328	0.359	0.514
	Left Cheek	0.266	0.390	0.504	0.656	0.770
	Left Tilt	0.109	0.275	0.543	0.384	0.652
13A-46A-N66	Right Cheek	0.480	0.220	0.286	0.700	0.766
	Right Tilt	0.330	0.173	0.328	0.503	0.658
	Left Cheek	0.255	0.390	0.504	0.645	0.759
	Left Tilt	0.139	0.275	0.543	0.414	0.682
5A-46A-N66	Right Cheek	0.719	0.220	0.286	0.939	1.005
	Right Tilt	0.431	0.173	0.328	0.604	0.759
	Left Cheek	0.417	0.390	0.504	0.807	0.921
	Left Tilt	0.188	0.275	0.543	0.463	0.731
2A-12A-N66	Right Cheek	0.786	0.220	0.286	1.006	1.072
	Right Tilt	0.503	0.173	0.328	0.676	0.831
	Left Cheek	0.516	0.390	0.504	0.906	1.020
	Left Tilt	0.382	0.275	0.543	0.657	0.925
12A-66A-N66	Right Cheek	0.837	0.220	0.286	1.057	1.123
	Right Tilt	0.569	0.173	0.328	0.742	0.897
	Left Cheek	0.549	0.390	0.504	0.939	1.053
	Left Tilt	0.453	0.275	0.543	0.728	0.996
2A-46A-N66	Right Cheek	0.569	0.220	0.286	0.789	0.855
	Right Tilt	0.372	0.173	0.328	0.545	0.700
	Left Cheek	0.418	0.390	0.504	0.808	0.922
	Left Tilt	0.303	0.275	0.543	0.578	0.846
13A-N77	Right Cheek	0.600	0.220	0.286	0.820	0.886
	Right Tilt	0.828	0.173	0.328	1.001	1.156
	Left Cheek	0.558	0.390	0.504	0.948	1.062
	Left Tilt	0.603	0.275	0.543	0.878	1.146
5A-N77	Right Cheek	0.839	0.220	0.286	1.059	1.125
	Right Tilt	0.929	0.173	0.328	1.102	1.257
	Left Cheek	0.720	0.390	0.504	1.110	1.224
	Left Tilt	0.652	0.275	0.543	0.927	1.195
12A-66A-66A-N2	Right Cheek	1.344	0.220	0.286	1.564	1.630
	Right Tilt	0.973	0.173	0.328	1.146	1.301
	Left Cheek	0.934	0.390	0.504	1.324	1.438
	Left Tilt	0.808	0.275	0.543	1.083	1.351
2A-12A-12A-N66	Right Cheek	1.003	0.220	0.286	1.223	1.289



	Right Tilt	0.634	0.173	0.328	0.807	0.962
	Left Cheek	0.614	0.390	0.504	1.004	1.118
	Left Tilt	0.461	0.275	0.543	0.736	1.004

➤ **Body Data for WLAN MIMO**

Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	3+4 Summed 1g SAR (W/kg)
	2.4GHz WLAN CH 0	2.4GHz WLAN CH 1	5GHz WLAN CH 0	5GHz WLAN CH 1		
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
Front Side	0.049	0.027	0.107	0.243	0.076	0.350
Back Side	0.134	0.138	0.230	0.274	0.272	0.504
Left Side	0.011	0.023	0.000	0.000	0.034	0.000
Right Side	0.073	0.049	0.194	0.150	0.122	0.344
Top Side	0.024	0.067	0.117	0.266	0.091	0.383
Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000

➤ **Body Data for LTE Inter-band CA Uplink**

Carrier Component	Exposure Position	Standalone 1g SAR (W/kg)		Summed 1g SAR (W/kg)
		PCC	SCC	
CA_2A-4A	Front	0.035	0.036	0.071
	Back	0.074	0.089	0.163
	Left side	0.008	0.099	0.107
	Right side	0.007	0.030	0.037
	Top side	0.091	0.006	0.097
	Bottom side	0.000	0.000	0.000
CA_2A-5A	Front	0.035	0.038	0.073
	Back	0.074	0.055	0.129
	Left side	0.008	0.041	0.049
	Right side	0.007	0.020	0.027
	Top side	0.091	0.044	0.135
	Bottom side	0.000	0.033	0.033
CA_2A-12A	Front	0.035	0.053	0.088
	Back	0.074	0.091	0.165
	Left side	0.008	0.065	0.073
	Right side	0.007	0.046	0.053
	Top side	0.091	0.035	0.126
	Bottom side	0.000	0.051	0.051
CA_2A-13A	Front	0.035	0.094	0.129



	Back	0.074	0.165	0.239
	Left side	0.008	0.087	0.095
	Right side	0.007	0.023	0.030
	Top side	0.091	0.077	0.168
	Bottom side	0.000	0.031	0.031
CA_2A-66A	Front	0.035	0.036	0.071
	Back	0.074	0.089	0.163
	Left side	0.008	0.099	0.107
	Right side	0.007	0.030	0.037
	Top side	0.091	0.006	0.097
	Bottom side	0.000	0.000	0.000
CA_4A-5A	Front	0.036	0.038	0.074
	Back	0.089	0.055	0.144
	Left side	0.099	0.041	0.140
	Right side	0.030	0.020	0.050
	Top side	0.006	0.044	0.050
	Bottom side	0.000	0.033	0.033
CA_4A-13A	Front	0.036	0.094	0.130
	Back	0.089	0.165	0.254
	Left side	0.099	0.087	0.186
	Right side	0.030	0.023	0.053
	Top side	0.006	0.077	0.083
	Bottom side	0.000	0.031	0.031
CA_5A-66A	Front	0.038	0.036	0.074
	Back	0.055	0.089	0.144
	Left side	0.041	0.099	0.140
	Right side	0.020	0.030	0.050
	Top side	0.044	0.006	0.050
	Bottom side	0.033	0.000	0.033
CA_13A-66A	Front	0.094	0.036	0.130
	Back	0.165	0.089	0.254
	Left side	0.087	0.099	0.186
	Right side	0.023	0.030	0.053
	Top side	0.077	0.006	0.083
	Bottom side	0.031	0.000	0.031



➤ **Body Data for EN-DC Combination**

EN-DC Combination	Exposure Position	Standalone 1g SAR (W/kg)		EN-DC Summed 1g SAR (W/kg)
		LTE Carrier	5G NR	
12A-N2	Front	0.035	/	0.100
	Back	0.074	/	0.278
	Left side	0.008	/	0.254
	Right side	0.007	/	0.011
	Top side	0.091	/	0.100
	Bottom side	0.000	/	0.000
2A-12A-N2	Front	0.035	0.053	0.153
	Back	0.074	0.091	0.369
	Left side	0.008	0.065	0.319
	Right side	0.007	0.046	0.057
	Top side	0.091	0.035	0.135
	Bottom side	0.000	0.051	0.051
12A-66A-N2	Front	0.053	0.012	0.130
	Back	0.091	0.023	0.318
	Left side	0.065	0.005	0.316
	Right side	0.046	0.004	0.054
	Top side	0.035	0.031	0.075
	Bottom side	0.051	0.000	0.051
13A-66A-N2	Front	0.094	0.012	0.171
	Back	0.165	0.023	0.392
	Left side	0.087	0.005	0.338
	Right side	0.023	0.004	0.031
	Top side	0.077	0.031	0.117
	Bottom side	0.031	0.000	0.031
46A-66A-N5	Front	/	0.012	0.122
	Back	/	0.023	0.190
	Left side	/	0.005	0.070
	Right side	/	0.004	0.042
	Top side	/	0.031	0.154
	Bottom side	/	0.000	0.088
2A-46D-N5	Front	0.035	/	0.145
	Back	0.074	/	0.241
	Left side	0.008	/	0.073
	Right side	0.007	/	0.045
	Top side	0.091	/	0.214



	Bottom side	0.000		0.036	0.036
12A-N66	Front	0.053	0.012	0.089	0.154
	Back	0.091	0.023	0.099	0.213
	Left side	0.065	0.005	0.030	0.100
	Right side	0.046	0.004	0.006	0.056
	Top side	0.035	0.031	0.000	0.066
	Bottom side	0.051	0.000	0.036	0.087
13A-46A-N66	Front	0.094	/	0.089	0.183
	Back	0.165	/	0.099	0.264
	Left side	0.087	/	0.030	0.117
	Right side	0.023	/	0.006	0.029
	Top side	0.077	/	0.000	0.077
	Bottom side	0.031	/	0.036	0.067
5A-46A-N66	Front	0.038	/	0.089	0.127
	Back	0.055	/	0.099	0.154
	Left side	0.041	/	0.030	0.071
	Right side	0.020	/	0.006	0.026
	Top side	0.044	/	0.000	0.044
	Bottom side	0.033	/	0.036	0.069
2A-12A-N66	Front	0.035	0.053	0.089	0.177
	Back	0.074	0.091	0.099	0.264
	Left side	0.008	0.065	0.030	0.103
	Right side	0.007	0.046	0.006	0.059
	Top side	0.091	0.035	0.000	0.126
	Bottom side	0.000	0.051	0.036	0.087
12A-66A-N66	Front	0.053	0.012	0.089	0.154
	Back	0.091	0.023	0.099	0.213
	Left side	0.065	0.005	0.030	0.100
	Right side	0.046	0.004	0.006	0.056
	Top side	0.035	0.031	0.000	0.066
	Bottom side	0.051	0.000	0.036	0.087
2A-46A-N66	Front	0.035	/	0.089	0.124
	Back	0.074	/	0.099	0.173
	Left side	0.008	/	0.030	0.038
	Right side	0.007	/	0.006	0.013
	Top side	0.091	/	0.000	0.091
	Bottom side	0.000	/	0.036	0.036
13A-N77	Front	0.094	/	0.073	0.167



	Back	0.165	/	0.157	0.322
	Left side	0.087	/	0.042	0.129
	Right side	0.023	/	0.106	0.129
	Top side	0.077	/	0.320	0.397
	Bottom side	0.031	/	0.000	0.031
5A-N77	Front	0.038	/	0.073	0.111
	Back	0.055	/	0.157	0.212
	Left side	0.041	/	0.042	0.083
	Right side	0.020	/	0.106	0.126
	Top side	0.044	/	0.320	0.364
	Bottom side	0.033	/	0.000	0.033

EN-DC Combination	Exposure Position	Standalone 1g SAR (W/kg)				EN-DC Summed 1g SAR (W/kg)
		LTE Carrier		5G NR		
12A-66A-66A-N2	Front	0.053	0.012	0.012	0.035	0.112
	Back	0.091	0.023	0.023	0.074	0.211
	Left side	0.065	0.005	0.005	0.008	0.083
	Right side	0.046	0.004	0.004	0.007	0.061
	Top side	0.035	0.031	0.031	0.091	0.188
	Bottom side	0.051	0.000	0.000	0.000	0.051
2A-12A-12A-N66	Front	0.035	0.053	0.053	0.036	0.177
	Back	0.074	0.091	0.091	0.089	0.345
	Left side	0.008	0.065	0.065	0.099	0.237
	Right side	0.007	0.046	0.046	0.030	0.129
	Top side	0.091	0.035	0.035	0.006	0.167
	Bottom side	0.000	0.051	0.051	0.000	0.102



➤ **Body Simultaneous Transmission for WWAN(2/3/4G)+WLAN MIMO**

WWAN Band	Exposure Position	1	2	3	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM 850	Front Side	0.101	0.076	0.350	0.177	0.451
	Back Side	0.120	0.272	0.504	0.392	0.624
	Left Side	0.069	0.034	0.000	0.103	0.069
	Right Side	0.035	0.122	0.344	0.157	0.379
	Top Side	0.104	0.091	0.383	0.195	0.487
	Bottom Side	0.080	0.000	0.000	0.080	0.080
GSM 1900	Front Side	0.045	0.076	0.350	0.121	0.395
	Back Side	0.092	0.272	0.504	0.364	0.596
	Left Side	0.022	0.034	0.000	0.056	0.022
	Right Side	0.004	0.122	0.344	0.126	0.348
	Top Side	0.114	0.091	0.383	0.205	0.497
	Bottom Side	0.000	0.000	0.000	0.000	0.000
WCDMA II	Front Side	0.080	0.076	0.350	0.156	0.430
	Back Side	0.164	0.272	0.504	0.436	0.668
	Left Side	0.039	0.034	0.000	0.073	0.039
	Right Side	0.012	0.122	0.344	0.134	0.356
	Top Side	0.195	0.091	0.383	0.286	0.578
	Bottom Side	0.000	0.000	0.000	0.000	0.000
WCDMA IV	Front Side	0.138	0.076	0.350	0.214	0.488
	Back Side	0.248	0.272	0.504	0.520	0.752
	Left Side	0.048	0.034	0.000	0.082	0.048
	Right Side	0.018	0.122	0.344	0.140	0.362
	Top Side	0.354	0.091	0.383	0.445	0.737
	Bottom Side	0.000	0.000	0.000	0.000	0.000
WCDMA V	Front Side	0.029	0.076	0.350	0.105	0.379
	Back Side	0.069	0.272	0.504	0.341	0.573
	Left Side	0.058	0.034	0.000	0.092	0.058
	Right Side	0.022	0.122	0.344	0.144	0.366
	Top Side	0.061	0.091	0.383	0.152	0.444
	Bottom Side	0.023	0.000	0.000	0.023	0.023
LTE Band 2	Front Side	0.035	0.076	0.350	0.111	0.385
	Back Side	0.074	0.272	0.504	0.346	0.578
	Left Side	0.008	0.034	0.000	0.042	0.008



	Right Side	0.007	0.122	0.344	0.129	0.351
	Top Side	0.091	0.091	0.383	0.182	0.474
	Bottom Side	0.000	0.000	0.000	0.000	0.000
LTE Band 5	Front Side	0.038	0.076	0.350	0.114	0.388
	Back Side	0.055	0.272	0.504	0.327	0.559
	Left Side	0.041	0.034	0.000	0.075	0.041
	Right Side	0.020	0.122	0.344	0.142	0.364
	Top Side	0.044	0.091	0.383	0.135	0.427
	Bottom Side	0.033	0.000	0.000	0.033	0.033
LTE Band 12	Front Side	0.053	0.076	0.350	0.129	0.403
	Back Side	0.091	0.272	0.504	0.363	0.595
	Left Side	0.065	0.034	0.000	0.099	0.065
	Right Side	0.046	0.122	0.344	0.168	0.390
	Top Side	0.035	0.091	0.383	0.126	0.418
	Bottom Side	0.051	0.000	0.000	0.051	0.051
LTE Band 13	Front Side	0.094	0.076	0.350	0.170	0.444
	Back Side	0.165	0.272	0.504	0.437	0.669
	Left Side	0.087	0.034	0.000	0.121	0.087
	Right Side	0.023	0.122	0.344	0.145	0.367
	Top Side	0.077	0.091	0.383	0.168	0.460
	Bottom Side	0.031	0.000	0.000	0.031	0.031
LTE Band 66	Front Side	0.012	0.076	0.350	0.088	0.362
	Back Side	0.023	0.272	0.504	0.295	0.527
	Left Side	0.005	0.034	0.000	0.039	0.005
	Right Side	0.004	0.122	0.344	0.126	0.348
	Top Side	0.031	0.091	0.383	0.122	0.414
	Bottom Side	0.000	0.000	0.000	0.000	0.000



➤ **Body Simultaneous Transmission for WWAN(EN-DC)+WLAN MIMO**

WWAN Band	Exposure Position	1	2	3	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
12A-N2	Front Side	0.100	0.076	0.350	0.176	0.450
	Back Side	0.278	0.272	0.504	0.550	0.782
	Left Side	0.254	0.034	0.000	0.288	0.254
	Right Side	0.011	0.122	0.344	0.133	0.355
	Top Side	0.100	0.091	0.383	0.191	0.483
	Bottom Side	0.000	0.000	0.000	0.000	0.000
2A-12A-N2	Front Side	0.153	0.076	0.350	0.229	0.503
	Back Side	0.369	0.272	0.504	0.641	0.873
	Left Side	0.319	0.034	0.000	0.353	0.319
	Right Side	0.057	0.122	0.344	0.179	0.401
	Top Side	0.135	0.091	0.383	0.226	0.518
	Bottom Side	0.051	0.000	0.000	0.051	0.051
12A-66A-N2	Front Side	0.130	0.076	0.350	0.206	0.480
	Back Side	0.318	0.272	0.504	0.590	0.822
	Left Side	0.316	0.034	0.000	0.350	0.316
	Right Side	0.054	0.122	0.344	0.176	0.398
	Top Side	0.075	0.091	0.383	0.166	0.458
	Bottom Side	0.051	0.000	0.000	0.051	0.051
13A-66A-N2	Front Side	0.171	0.076	0.350	0.247	0.521
	Back Side	0.392	0.272	0.504	0.664	0.896
	Left Side	0.338	0.034	0.000	0.372	0.338
	Right Side	0.031	0.122	0.344	0.153	0.375
	Top Side	0.117	0.091	0.383	0.208	0.500
	Bottom Side	0.031	0.000	0.000	0.031	0.031
46A-66A-N5	Front Side	0.122	0.076	0.350	0.198	0.472
	Back Side	0.190	0.272	0.504	0.462	0.694
	Left Side	0.070	0.034	0.000	0.104	0.070
	Right Side	0.042	0.122	0.344	0.164	0.386
	Top Side	0.154	0.091	0.383	0.245	0.537
	Bottom Side	0.088	0.000	0.000	0.088	0.088
2A-46D-N5	Front Side	0.145	0.076	0.350	0.221	0.495
	Back Side	0.241	0.272	0.504	0.513	0.745
	Left Side	0.073	0.034	0.000	0.107	0.073



	Right Side	0.045	0.122	0.344	0.167	0.389
	Top Side	0.214	0.091	0.383	0.305	0.597
	Bottom Side	0.036	0.000	0.000	0.036	0.036
12A-N66	Front Side	0.154	0.076	0.350	0.230	0.504
	Back Side	0.213	0.272	0.504	0.485	0.717
	Left Side	0.100	0.034	0.000	0.134	0.100
	Right Side	0.056	0.122	0.344	0.178	0.400
	Top Side	0.066	0.091	0.383	0.157	0.449
	Bottom Side	0.087	0.000	0.000	0.087	0.087
	13A-46A-N66	Front Side	0.183	0.076	0.350	0.259
Back Side		0.264	0.272	0.504	0.536	0.768
Left Side		0.117	0.034	0.000	0.151	0.117
Right Side		0.029	0.122	0.344	0.151	0.373
Top Side		0.077	0.091	0.383	0.168	0.460
Bottom Side		0.067	0.000	0.000	0.067	0.067
5A-46A-N66	Front Side	0.127	0.076	0.350	0.203	0.477
	Back Side	0.154	0.272	0.504	0.426	0.658
	Left Side	0.071	0.034	0.000	0.105	0.071
	Right Side	0.026	0.122	0.344	0.148	0.370
	Top Side	0.044	0.091	0.383	0.135	0.427
	Bottom Side	0.069	0.000	0.000	0.069	0.069
2A-12A-N66	Front Side	0.177	0.076	0.350	0.253	0.527
	Back Side	0.264	0.272	0.504	0.536	0.768
	Left Side	0.103	0.034	0.000	0.137	0.103
	Right Side	0.059	0.122	0.344	0.181	0.403
	Top Side	0.126	0.091	0.383	0.217	0.509
	Bottom Side	0.087	0.000	0.000	0.087	0.087
12A-66A-N66	Front Side	0.154	0.076	0.350	0.230	0.504
	Back Side	0.213	0.272	0.504	0.485	0.717
	Left Side	0.100	0.034	0.000	0.134	0.100
	Right Side	0.056	0.122	0.344	0.178	0.400
	Top Side	0.066	0.091	0.383	0.157	0.449
	Bottom Side	0.087	0.000	0.000	0.087	0.087
2A-46A-N66	Front Side	0.124	0.076	0.350	0.200	0.474
	Back Side	0.173	0.272	0.504	0.445	0.677
	Left Side	0.038	0.034	0.000	0.072	0.038
	Right Side	0.013	0.122	0.344	0.135	0.357
	Top Side	0.091	0.091	0.383	0.182	0.474



	Bottom Side	0.036	0.000	0.000	0.036	0.036
13A-N77	Front Side	0.167	0.076	0.350	0.243	0.517
	Back Side	0.322	0.272	0.504	0.594	0.826
	Left Side	0.129	0.034	0.000	0.163	0.129
	Right Side	0.129	0.122	0.344	0.251	0.473
	Top Side	0.397	0.091	0.383	0.488	0.780
	Bottom Side	0.031	0.000	0.000	0.031	0.031
5A-N77	Front Side	0.111	0.076	0.350	0.187	0.461
	Back Side	0.212	0.272	0.504	0.484	0.716
	Left Side	0.083	0.034	0.000	0.117	0.083
	Right Side	0.126	0.122	0.344	0.248	0.470
	Top Side	0.364	0.091	0.383	0.455	0.747
	Bottom Side	0.033	0.000	0.000	0.033	0.033
12A-66A-66A-N 2	Front Side	0.112	0.076	0.350	0.188	0.462
	Back Side	0.211	0.272	0.504	0.483	0.715
	Left Side	0.083	0.034	0.000	0.117	0.083
	Right Side	0.061	0.122	0.344	0.183	0.405
	Top Side	0.188	0.091	0.383	0.279	0.571
	Bottom Side	0.051	0.000	0.000	0.051	0.051
2A-12A-12A-N6 6	Front Side	0.177	0.076	0.350	0.253	0.527
	Back Side	0.345	0.272	0.504	0.617	0.849
	Left Side	0.237	0.034	0.000	0.271	0.237
	Right Side	0.129	0.122	0.344	0.251	0.473
	Top Side	0.167	0.091	0.383	0.258	0.550
	Bottom Side	0.102	0.000	0.000	0.102	0.102



➤ **Body Simultaneous Transmission for WWAN(2/3/4G)+WLAN+Bluetooth**

WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz (Ant 9)	5GHz (Ant 6)	Bluetooth Estimated		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM 850	Front Side	0.101	0.027	0.243	0.453	0.581	0.797
	Back Side	0.120	0.138	0.274	0.453	0.711	0.847
	Left Side	0.069	0.023	0.000	0.453	0.545	0.522
	Right Side	0.035	0.049	0.150	0.453	0.537	0.638
	Top Side	0.104	0.067	0.266	0.453	0.624	0.823
	Bottom Side	0.080	0.000	0.000	0.000	0.080	0.080
GSM 1900	Front Side	0.045	0.027	0.243	0.453	0.525	0.741
	Back Side	0.092	0.138	0.274	0.453	0.683	0.819
	Left Side	0.022	0.023	0.000	0.453	0.498	0.475
	Right Side	0.004	0.049	0.150	0.453	0.506	0.607
	Top Side	0.114	0.067	0.266	0.453	0.634	0.833
	Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA II	Front Side	0.080	0.027	0.243	0.453	0.560	0.776
	Back Side	0.164	0.138	0.274	0.453	0.755	0.891
	Left Side	0.039	0.023	0.000	0.453	0.515	0.492
	Right Side	0.012	0.049	0.150	0.453	0.514	0.615
	Top Side	0.195	0.067	0.266	0.453	0.715	0.914
	Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA IV	Front Side	0.138	0.027	0.243	0.453	0.618	0.834
	Back Side	0.248	0.138	0.274	0.453	0.839	0.975
	Left Side	0.048	0.023	0.000	0.453	0.524	0.501
	Right Side	0.018	0.049	0.150	0.453	0.520	0.621
	Top Side	0.354	0.067	0.266	0.453	0.874	1.073
	Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA V	Front Side	0.029	0.027	0.243	0.453	0.509	0.725
	Back Side	0.069	0.138	0.274	0.453	0.660	0.796
	Left Side	0.058	0.023	0.000	0.453	0.534	0.511
	Right Side	0.022	0.049	0.150	0.453	0.524	0.625
	Top Side	0.061	0.067	0.266	0.453	0.581	0.780
	Bottom Side	0.023	0.000	0.000	0.000	0.023	0.023
LTE Band 2	Front Side	0.035	0.027	0.243	0.453	0.515	0.731
	Back Side	0.074	0.138	0.274	0.453	0.665	0.801
	Left Side	0.008	0.023	0.000	0.453	0.484	0.461



	Right Side	0.007	0.049	0.150	0.453	0.509	0.610
	Top Side	0.091	0.067	0.266	0.453	0.611	0.810
	Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 5	Front Side	0.038	0.027	0.243	0.453	0.518	0.734
	Back Side	0.055	0.138	0.274	0.453	0.646	0.782
	Left Side	0.041	0.023	0.000	0.453	0.517	0.494
	Right Side	0.020	0.049	0.150	0.453	0.522	0.623
	Top Side	0.044	0.067	0.266	0.453	0.564	0.763
	Bottom Side	0.033	0.000	0.000	0.000	0.033	0.033
LTE Band 12	Front Side	0.053	0.027	0.243	0.453	0.533	0.749
	Back Side	0.091	0.138	0.274	0.453	0.682	0.818
	Left Side	0.065	0.023	0.000	0.453	0.541	0.518
	Right Side	0.046	0.049	0.150	0.453	0.548	0.649
	Top Side	0.035	0.067	0.266	0.453	0.555	0.754
	Bottom Side	0.051	0.000	0.000	0.000	0.051	0.051
LTE Band 13	Front Side	0.094	0.027	0.243	0.453	0.574	0.790
	Back Side	0.165	0.138	0.274	0.453	0.756	0.892
	Left Side	0.087	0.023	0.000	0.453	0.563	0.540
	Right Side	0.023	0.049	0.150	0.453	0.525	0.626
	Top Side	0.077	0.067	0.266	0.453	0.597	0.796
	Bottom Side	0.031	0.000	0.000	0.000	0.031	0.031
LTE Band 66	Front Side	0.012	0.027	0.243	0.453	0.492	0.708
	Back Side	0.023	0.138	0.274	0.453	0.614	0.750
	Left Side	0.005	0.023	0.000	0.453	0.481	0.458
	Right Side	0.004	0.049	0.150	0.453	0.506	0.607
	Top Side	0.031	0.067	0.266	0.453	0.551	0.750
	Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000



➤ **Body Simultaneous Transmission for WWAN(EN-DC)+WLAN+Bluetooth**

WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz (Ant 9)	5GHz (Ant 6)	Bluetooth Estimated		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
12A-N2	Front Side	0.100	0.027	0.243	0.453	0.580	0.796
	Back Side	0.278	0.138	0.274	0.453	0.869	1.005
	Left Side	0.254	0.023	0.000	0.453	0.730	0.707
	Right Side	0.011	0.049	0.150	0.453	0.513	0.614
	Top Side	0.100	0.067	0.266	0.453	0.620	0.819
	Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000
2A-12A-N2	Front Side	0.153	0.027	0.243	0.453	0.633	0.849
	Back Side	0.369	0.138	0.274	0.453	0.960	1.096
	Left Side	0.319	0.023	0.000	0.453	0.795	0.772
	Right Side	0.057	0.049	0.150	0.453	0.559	0.660
	Top Side	0.135	0.067	0.266	0.453	0.655	0.854
	Bottom Side	0.051	0.000	0.000	0.000	0.051	0.051
12A-66A-N2	Front Side	0.130	0.027	0.243	0.453	0.610	0.826
	Back Side	0.318	0.138	0.274	0.453	0.909	1.045
	Left Side	0.316	0.023	0.000	0.453	0.792	0.769
	Right Side	0.054	0.049	0.150	0.453	0.556	0.657
	Top Side	0.075	0.067	0.266	0.453	0.595	0.794
	Bottom Side	0.051	0.000	0.000	0.000	0.051	0.051
13A-66A-N2	Front Side	0.171	0.027	0.243	0.453	0.651	0.867
	Back Side	0.392	0.138	0.274	0.453	0.983	1.119
	Left Side	0.338	0.023	0.000	0.453	0.814	0.791
	Right Side	0.031	0.049	0.150	0.453	0.533	0.634
	Top Side	0.117	0.067	0.266	0.453	0.637	0.836
	Bottom Side	0.031	0.000	0.000	0.000	0.031	0.031
46A-66A-N5	Front Side	0.122	0.027	0.243	0.453	0.602	0.818
	Back Side	0.190	0.138	0.274	0.453	0.781	0.917
	Left Side	0.070	0.023	0.000	0.453	0.546	0.523
	Right Side	0.042	0.049	0.150	0.453	0.544	0.645
	Top Side	0.154	0.067	0.266	0.453	0.674	0.873
	Bottom Side	0.088	0.000	0.000	0.000	0.088	0.088
2A-46D-N5	Front Side	0.145	0.027	0.243	0.453	0.625	0.841
	Back Side	0.241	0.138	0.274	0.453	0.832	0.968
	Left Side	0.073	0.023	0.000	0.453	0.549	0.526



	Right Side	0.045	0.049	0.150	0.453	0.547	0.648
	Top Side	0.214	0.067	0.266	0.453	0.734	0.933
	Bottom Side	0.036	0.000	0.000	0.000	0.036	0.036
12A-N66	Front Side	0.154	0.027	0.243	0.453	0.634	0.850
	Back Side	0.213	0.138	0.274	0.453	0.804	0.940
	Left Side	0.100	0.023	0.000	0.453	0.576	0.553
	Right Side	0.056	0.049	0.150	0.453	0.558	0.659
	Top Side	0.066	0.067	0.266	0.453	0.586	0.785
	Bottom Side	0.087	0.000	0.000	0.000	0.087	0.087
	13A-46A-N66	Front Side	0.183	0.027	0.243	0.453	0.663
Back Side		0.264	0.138	0.274	0.453	0.855	0.991
Left Side		0.117	0.023	0.000	0.453	0.593	0.570
Right Side		0.029	0.049	0.150	0.453	0.531	0.632
Top Side		0.077	0.067	0.266	0.453	0.597	0.796
Bottom Side		0.067	0.000	0.000	0.000	0.067	0.067
5A-46A-N66	Front Side	0.127	0.027	0.243	0.453	0.607	0.823
	Back Side	0.154	0.138	0.274	0.453	0.745	0.881
	Left Side	0.071	0.023	0.000	0.453	0.547	0.524
	Right Side	0.026	0.049	0.150	0.453	0.528	0.629
	Top Side	0.044	0.067	0.266	0.453	0.564	0.763
	Bottom Side	0.069	0.000	0.000	0.000	0.069	0.069
2A-12A-N66	Front Side	0.177	0.027	0.243	0.453	0.657	0.873
	Back Side	0.264	0.138	0.274	0.453	0.855	0.991
	Left Side	0.103	0.023	0.000	0.453	0.579	0.556
	Right Side	0.059	0.049	0.150	0.453	0.561	0.662
	Top Side	0.126	0.067	0.266	0.453	0.646	0.845
	Bottom Side	0.087	0.000	0.000	0.000	0.087	0.087
12A-66A-N66	Front Side	0.154	0.027	0.243	0.453	0.634	0.850
	Back Side	0.213	0.138	0.274	0.453	0.804	0.940
	Left Side	0.100	0.023	0.000	0.453	0.576	0.553
	Right Side	0.056	0.049	0.150	0.453	0.558	0.659
	Top Side	0.066	0.067	0.266	0.453	0.586	0.785
	Bottom Side	0.087	0.000	0.000	0.000	0.087	0.087
2A-46A-N66	Front Side	0.124	0.027	0.243	0.453	0.604	0.820
	Back Side	0.173	0.138	0.274	0.453	0.764	0.900
	Left Side	0.038	0.023	0.000	0.453	0.514	0.491
	Right Side	0.013	0.049	0.150	0.453	0.515	0.616
	Top Side	0.091	0.067	0.266	0.453	0.611	0.810



	Bottom Side	0.036	0.000	0.000	0.000	0.036	0.036
13A-N77	Front Side	0.167	0.027	0.243	0.453	0.647	0.863
	Back Side	0.322	0.138	0.274	0.453	0.913	1.049
	Left Side	0.129	0.023	0.000	0.453	0.605	0.582
	Right Side	0.129	0.049	0.150	0.453	0.631	0.732
	Top Side	0.397	0.067	0.266	0.453	0.917	1.116
	Bottom Side	0.031	0.000	0.000	0.000	0.031	0.031
5A-N77	Front Side	0.111	0.027	0.243	0.453	0.591	0.807
	Back Side	0.212	0.138	0.274	0.453	0.803	0.939
	Left Side	0.083	0.023	0.000	0.453	0.559	0.536
	Right Side	0.126	0.049	0.150	0.453	0.628	0.729
	Top Side	0.364	0.067	0.266	0.453	0.884	1.083
	Bottom Side	0.033	0.000	0.000	0.000	0.033	0.033
12A-66A-66A-N2	Front Side	0.100	0.027	0.243	0.453	0.580	0.796
	Back Side	0.278	0.138	0.274	0.453	0.869	1.005
	Left Side	0.254	0.023	0.000	0.453	0.730	0.707
	Right Side	0.011	0.049	0.150	0.453	0.513	0.614
	Top Side	0.100	0.067	0.266	0.453	0.620	0.819
	Bottom Side	0.000	0.000	0.000	0.000	0.000	0.000
2A-12A-12A-N66	Front Side	0.153	0.027	0.243	0.453	0.633	0.849
	Back Side	0.369	0.138	0.274	0.453	0.960	1.096
	Left Side	0.319	0.023	0.000	0.453	0.795	0.772
	Right Side	0.057	0.049	0.150	0.453	0.559	0.660
	Top Side	0.135	0.067	0.266	0.453	0.655	0.854
	Bottom Side	0.051	0.000	0.000	0.000	0.051	0.051



19.3. SPLSR Assessment and Analysis

➤ **General Guidance**

1. Per KDB 447498, When standalone SAR is measured, the peak location is determined by the x, y, z coordinates of the extrapolated and interpolated results reported by the zoom scan measurement, or area scan measurement when area scan based 1-g SAR estimation is applicable.
2. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
3. The ratio is determined by $(SAR_1 + SAR_2)^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.
4. SPLSR analysis for EN-DC+Bluetooth mode may not be required for the SAR measurement of Bluetooth has been exempted.

➤ **SPLSR Analysis Results**

Band	Position	SAR (W/kg)	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			X	Y	Z				
LTE Band 12	Right Cheek	0.190	0.00611	-0.332	-0.173	797.2	0.31	0.00	Not required
LTE Band 66		0.266	0.00672	-0.317	-0.173				
LTE Band 66		0.266	0.00672	-0.317	-0.173				
5G NR N2		0.479	0.049	-0.315	-0.176				
5.5GHz CH0		0.123	-0.00454	-0.287	-0.166				
5.2GHz CH1		0.115	-0.00962	-0.288	-0.168				

Remark:

The plots of SPLSR please refer to the annex D.

19.4. Simultaneous Transmission Analysis for 5G mmWave

➤ Simultaneous Transmission Consideration

No.	Simultaneous Transmission Consideration	Support
1	WWAN LTE Bands+5G mmWave +WLAN 2.4GHz/5GHz (SISO)	Yes
2	WWAN LTE Bands+5G mmWave +WLAN 2.4GHz/5GHz (MIMO)	Yes

Note:

- Both the 2.4GHz & 5GHz WLAN cannot transmit simultaneously at the same time according to the user manual.
- For body worn/hotspot analysis, the 2 mm PD results were scaled to 10 mm based on the simulation results.

➤ Total Exposure Radio Analysis

The fields generated by the antennas can be correlated or uncorrelated. At different frequencies, fields are always uncorrelated, and the aggregate power density contributions can be summed according to spatially averaged values of corresponding sources at any point in space, r , to determine the total exposure ratio (TER). Assuming I sources, the TER at each point in space is equal to

$$TER^{uncorr}(r) = \sum_{i=1}^I ER_i = \sum_{i=1}^I \frac{S_{av,i}(r, f_i)}{S_{lim}(f_i)}$$

Where $S_{av,i}$ is the power density for the source I operating at a frequency f_i and S_{lim} is the power density limit as specified by the relevant standard.

Exposure from transmitters operating above and below 6GHz, where 6GHz denotes the transmission frequency where the basic restrictions change from being defined in terms of SAR to being defined in terms of power density, therefore uncorrelated and the TER is determined as

$$TER^{uncorr}(r) = \sum_{i=1}^I ER_i = \sum_{i=1}^I \frac{S_{av,i}(r, f_i)}{S_{lim}(f_i)}$$

According to the FCC guidance in TCBC workshop and IEC TR 63170, the total exposure ratio calculated by taking ratio of maximum reported SAR divided by SAR limit and adding it to maximum measured power density by its limit. Numerical sum of the ratios should be less or equal to 1. Therefore the simultaneous transmission should be follows:

$$TER = \sum_{n=1}^N \frac{SAR_n}{SAR_{n,limit}} + \sum_{n=1}^N \frac{S_{m,avg}}{S_{m,limit}} < 1$$

➤ **Simultaneous Transmission Assessment**

Table 1: Body/Hotspot TER for worst-case n260 (mmW EN-DC)+WLAN MIMO

RF Exposure Position		Summation SAR for LTE+WLAN (W/kg)	Radio to Limit (LTE+WLAN)	Total PD (mW/m ²)	Total Exposure Ratio
Body/Hotspot	Front	0.444	0.278	0.24	0.518
	Back	0.669	0.418	0.262	0.68
	Left	0.121	0.076	0.606	0.682
	Right	0.39	0.244	0.600	0.844
	Top	0.474	0.296	0.015	0.311
	Bottom	0.051	0.032	0.009	0.041

Table 1: Body/Hotspot TER for worst-case n261 (mmW EN-DC)+WLAN MIMO

RF Exposure Position		Summation SAR for LTE+WLAN (W/kg)	Radio to Limit (LTE+WLAN)	Total PD (mW/m ²)	Total Exposure Ratio
Body/Hotspot	Front	0.444	0.278	0.269	0.547
	Back	0.669	0.418	0.266	0.684
	Left	0.121	0.076	0.626	0.702
	Right	0.39	0.244	0.617	0.861
	Top	0.474	0.296	0.022	0.318
	Bottom	0.051	0.032	0.009	0.041

Note:

The maximum total simulation PD results shown in the table 1 and table 2 above are from the ZJY Myra SUB6 mmW Power Density Simulation Report of Qualcomm Technologies, Inc.

20. Uncertainty Assessment

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

Standard Uncertainty for Assumed Distribution

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k is the coverage factor

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined



probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	6.0	N	1	1	1	6.0	6.0
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9
Boundary Effects	1.0	R	1.732	1	1	0.6	0.6
Linearity	4.7	R	1.732	1	1	2.7	2.7
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6
Modulation Response	3.2	R	1.732	1	1	1.8	1.8
Readout Electronics	0.3	N	1	1	1	0.3	0.3
Response Time	0.0	R	1.732	1	1	0.0	0.0
Integration Time	2.6	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2
Probe Positioning	2.9	R	1.732	1	1	1.7	1.7
Max. SAR Eval.	2.0	R	1.732	1	1	1.2	1.2
Test Sample Related							
Device Positioning	3.0	N	1	1	1	3.0	3.0
Device Holder	3.6	N	1	1	1	0.089	0.089
Power Drift	5.0	R	1.732	1	1	2.9	2.9
Power Scaling	0.0	R	1.732	1	1	0.0	0.0
Phantom and Setup							
Phantom Uncertainty	6.1	R	1.732	1	1	3.5	3.5
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0
Temp. unc. - Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						11.4%	11.4%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						22.9%	22.7%



Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	6.55	N	1	1	1	6.0	6.0
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2
Linearity	4.7	R	1.732	1	1	2.7	2.7
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6
Modulation Response	3.2	R	1.732	1	1	1.8	1.8
Readout Electronics	0.3	N	1	1	1	0.3	0.3
Response Time	0.0	R	1.732	1	1	0.0	0.0
Integration Time	2.6	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Positioning	3.0	N	1	1	1	3.0	3.0
Device Holder	3.6	N	1	1	1	0.089	0.089
Power Drift	5.0	R	1.732	1	1	2.9	2.9
Power Scaling	0.0	R	1.732	1	1	0.0	0.0
Phantom and Setup							
Phantom Uncertainty	6.1	R	1.732	1	1	3.8	3.8
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0
Temp. unc. - Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						12.5%	12.5%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						25.1 %	25.1%



Annex A General Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China

3. Facilities and Accreditations

The FCC designation number is CN1192, the test firm registration number is 226174.

Note:

The main report is end here and the other Annex (B,C,D,E,F) will be submitted separately.

***** END OF MAIN REPORT *****