

## Appendix F. Sim-Tx SAR consideration and Spatial TAS Verification

### F.1 Sim-Tx Configuration

Exposure Condition	Tx mode	Capable TX Configurations	WWAN Power Index	WiFi Power Index	BT Power Index
Head	WWAN standalone	WWAN	Index 2		
	WiFi standalone	WiFi 2.4G SISO (Ant4 or Ant3)	Index 1	Index 2 (RSDB)	
		WiFi 2.4G MIMO/CDD (Ant4+3)			
		WiFi 5G MIMO (Ant4+3)			
		WiFi 6E MIMO (Ant4+3)			
		WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 5G MIMO (Ant4+3)			
		WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant4+3)			
		WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 6E MIMO (Ant4+3)			
	WiFi +BT	WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3)	Index 1	Index 1	
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)			
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3)			
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4+3)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)			
	WWAN + WiFi	WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3)	Index 3	Index 3	Index 1
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4+3)			
		WWAN + WiFi 2.4G SISO (Ant4 or Ant3)			
		WWAN + WiFi 2.4G MIMO/CDD (Ant4+3)			
		WWAN + WiFi 5G MIMO (Ant4+3)			
		WWAN + WiFi 6E MIMO (Ant4+3)			
		WWAN + WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 5G MIMO (Ant4+3)			
	WWAN + BT	WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant4+3)	Index 3	Index 3	Index 1
		WWAN + WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 6E MIMO (Ant4+3)			
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3)			
	WWAN + WiFi +BT	WWAN + Bluetooth (Ant4)	Index 3	Index 3	Index 1
		WWAN + Bluetooth (Ant3)			
		WWAN + Bluetooth (Ant4+3)			
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)			
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3)			
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4+3)			
		WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)	Index 3	Index 3	Index 1
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3)					
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)					
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4+3)					



Exposure Condition	Tx mode	Capable TX Configurations	WWAN Power Index	WiFi Power Index	BT Power Index
Body	WWAN standalone	WWAN	Index 5		
	WiFi standalone	WiFi 2.4G SISO (Ant4 or Ant3)	Index 5	Index 5	Index 6 (RSDB)
		WiFi 2.4G MIMO/CDD (Ant4+3)			
		WiFi 5G MIMO (Ant4+3)			
		WiFi 6E MIMO (Ant4+3)			
		WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 5G MIMO (Ant4+3)			
		WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant4+3)			
		WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 6E MIMO (Ant4+3)			
		WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3)			
	BT standalone	Bluetooth (Ant4)	Index 2		
		Bluetooth (Ant3)			
		Bluetooth (Ant4+3)			
	WiFi +BT	WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)	Index 5	Index 3	
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3)			
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4+3)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4+3)			
	WWAN + WiFi	WWAN + WiFi 2.4G SISO (Ant4 or Ant3)	Index 4 / 6	Index 7	Index 8 (RSDB)
		WWAN + WiFi 2.4G MIMO/CDD (Ant4+3)			
		WWAN + WiFi 5G MIMO (Ant4+3)			
		WWAN + WiFi 6E MIMO (Ant4+3)			
		WWAN + WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 5G MIMO (Ant4+3)			
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant4+3)			
		WWAN + WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 6E MIMO (Ant4+3)			
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3)			
	WWAN + BT	WWAN + Bluetooth (Ant4)	Index 6 / Index 4	Index 3	
		WWAN + Bluetooth (Ant3)			
		WWAN + Bluetooth (Ant4+3)			
	WWAN + WiFi +BT	WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)	Index 4 / 6	Index 9	Index 4
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3)			
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4+3)			
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)					
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3)					
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4+3)					

Exposure Condition	Tx mode	Capable TX Configurations	WWAN Power Index	WiFi Power Index	BT Power Index
Extremity	WWAN standalone / WWAN + NFC	WWAN / WWAN + NFC	Index 5		
	WiFi standalone / WLAN + NFC	WiFi 2.4G SISO (Ant4 or Ant3) / WiFi 2.4G SISO (Ant4 or Ant3) + NFC	Index 5	Index 5	Index 6 (RSDB)
		WiFi 2.4G MIMO/CDD (Ant4+3) / WiFi 2.4G MIMO/CDD (Ant4+3) + NFC			
		WiFi 5G MIMO (Ant4+3) / WiFi 5G MIMO (Ant4+3) + NFC			
		WiFi 6E MIMO (Ant4+3) / WiFi 6E MIMO (Ant4+3) + NFC			
		WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 5G MIMO (Ant4+3) / WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 5G MIMO (Ant4+3) + NFC			
		WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant4+3) / WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant4+3) + NFC			
		WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 6E MIMO (Ant4+3) / WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 6E MIMO (Ant4+3) + NFC			
		WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3) / WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3) + NFC			
	BT standalone / BT + NFC	Bluetooth (Ant4) / Bluetooth (Ant4) + NFC	Index 2		
		Bluetooth (Ant3) / Bluetooth (Ant3) + NFC			
		Bluetooth (Ant4+3) / Bluetooth (Ant4+3) + NFC			
	NFC standalone	NFC			
	WiFi +BT + NFC	WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4) + NFC	Index 5	Index 3	
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3) + NFC			
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4+3) + NFC			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4) + NFC			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3) + NFC			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4+3) + NFC			
	WWAN + WiFi + NFC	WWAN + WiFi 2.4G SISO (Ant4 or Ant3) + NFC	Index 4 / 6	Index 7	Index 8 (RSDB)
		WWAN + WiFi 2.4G MIMO/CDD (Ant4+3) + NFC			
		WWAN + WiFi 5G MIMO (Ant4+3) + NFC			
		WWAN + WiFi 6E MIMO (Ant4+3) + NFC			
		WWAN + WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 5G MIMO (Ant4+3) + NFC			
		WWAN + WiFi 2.4G SISO (Ant4 or Ant3) + WiFi 6E MIMO (Ant4+3) + NFC			
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3) + NFC			
	WWAN + BT + NFC	WWAN + Bluetooth (Ant4) + NFC	Index 6 / Index 4	Index 3	
		WWAN + Bluetooth (Ant3) + NFC			
		WWAN + Bluetooth (Ant4+3) + NFC			
	WWAN + WiFi +BT + NFC	WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4) + NFC	Index 4 / 6	Index 9	Index 4
WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3) + NFC					
WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4+3) + NFC					
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4) + NFC					
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3) + NFC					
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4+3) + NFC					
Max Power Condition	All combinations	Index 1	Index 0	Index 0	

**General Note:**

- Max Power condition use case were evaluated in the reference model G1MNW, the report exhibit of G1MNW\_Part 1 SAR Report\_Appendix G.
- This device only WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
- The worst case reported SAR from each transmit antennas were using for SAR summation. Therefore, the following summations represent the absolute worst cases for simultaneous transmission configuration.
- The SAR summation is calculated based on the same exposure configuration and test position from each transmit antenna worst case reported SAR results.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - Scalar SAR summation < 1.6W/kg.
  - SPLSR = (SAR1 + SAR2)<sup>1.5</sup> / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)<sup>2</sup> + (y1-y2)<sup>2</sup> + (z1-z2)<sup>2</sup>], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
  - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

**F.2 5G NR + LTE + WLAN + BT Sim-Tx analysis**

Samsung proprietary TAS feature manages transmitting power effectively in real time and ensures that overall average RF exposure from 4G/5G NR WWAN including 5GNR EN-DC, and LTE intra-band/inter-band uplink CA are in compliance with FCC requirements, while the RF exposure from 2G, 3G and WLAN/BT radios is managed using the legacy approach, i.e., through a fixed power back-off if needed. The test device features a TAS function to keep average RF exposure below the given limit for all cases while allowing temporarily high power transmission for better performance.

For the 5GNR EN-DC, the power ratio factors are g1 and g2 for LTE and NR respectively. The main purpose of these power ratio factors is to split the available SAR budget among different RATs, so  $g1 + g2 \leq 1$ . The value of g1 is computed based on the need of the anchor (LTE) and can be changed if the anchor changes its power request. Based on the SAR Budget portion allocated to the anchor, the value of g2 will be computed. At steady state (where all RATs are being on for a while), the allocated power ratio factors will guarantee that the total exposure ratio never exceeds the highest exposure of either one.

$$g1 * LTEexposure + g2 * NRexposure \leq 1.0,$$

$$\text{then, } g1 * LTEexposure + g2 * NRexposure \leq \max ( LTEexposure , NRexposure )$$

In simultaneous transmission for this device, 5G NR including FR1 uplink MIMO and LTE transmission are managed and controlled by Samsung S.LSI TAS, while the RF exposure from WLAN, BT radios are managed using legacy approach, therefore, compliance of simultaneous transmission of LTE+5GNR+WiFi+BT can be justified from the compliance of LTE+WiFi +BT and 5GNR+WiFi+BT

The device also enabled Samsung Spatial TAS to improve antenna performance by applying separate SAR budgets to each predefined antenna group. There are three predefined antenna groups of AG0(Ant0, Ant6), AG1(Ant1,Ant5), AG2(Ant2, Ant7). Each antenna group is spatially separated to others. Simultaneous transmission analysis is performed per antenna group. Below analysis demonstrates the spatial separation of AG0, AG1 and AG2 and the compliance between AG0 and BT/WLAN/NFC, and between AG1 and BT/WLAN/NFC, and between AG2 and BT/WLAN/NFC

Thus, the main concept was to split the SAR/TER on the transmitting RATs even they are transmitting on different antennas. Such approach is considered as a worst case scenario in terms of transmitting power. Thus, to enhance the performance of the transmission power of RATs, consider the spatial properties of each antenna and the correlations between the antennas transmissions.

	AG0	AG1	AG2	external radio
Antenna	Ant 0, Ant 6	Ant 1, Ant 5	Ant 2, Ant 7	WLAN/BT/NFC

The verification of spatial separation of the antenna groups is demonstrated through the following steps, together with WIF/BT simultaneous transmission analysis results.

- i) The highest reported SAR at Plimit (or Pmax when Plimit > Pmax) for each antenna should be obtained out of all supported technologies and frequency bands for each power index. Demonstrate that the sum of reported SAR of one antenna from each of the antenna groups and the sum of RF exposure from all supported radios outside of TAS feature should be less than the regulatory limit as given below for each power index.
- ii) If the sum of SAR from step i) is over 1.6 W/kg for 1g and 4 W/kg for 10g, demonstrate for a given power index that every antenna from one antenna group meets SPLSR criteria with every antenna in another antenna group for all frequency bands. SPLSR criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios, SPLSR Hotspot combination procedure (Hybrid SPLSR) also be considered for simultaneous transmission analysis.
- iii) If SPLSR evaluation and analysis is needed to determine compliance for a certain power index configuration, SPLSR is performed by taking the highest summation SAR for each of the supported technologies and bands per antenna, along with the minimum of peak SAR location distance. The minimum of peak location distance are documented in the Highest Report SAR and Hotspot Location below for each power index configuration.
- iv) In section F.7 SPLSR analysis only evaluation Sim-Tx SAR configuration are rounded to two decimal higher or equal to 1.6W/kg.
- v) The analysis addresses the simultaneous transmission and the transition among non-simultaneous transmission radios



**F.3 Head Sim-Tx analysis**

**<WLAN Index1, BT Index1>**

Exposure Position	1	2	3	4	5	6	7	4+5 Summed 1g SAR (W/kg)	4+6 Summed 1g SAR (W/kg)	4+7 Summed 1g SAR (W/kg)
	WLAN2.4GHz Ant 4 1g SAR (W/kg)	WLAN2.4GHz Ant 3 1g SAR (W/kg)	WLAN2.4GHz Ant 4+3 1g SAR (W/kg)	WLAN5/6GHz Ant 4+3 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 4+3 1g SAR (W/kg)			
Right Cheek	0.222	0.510	0.292	0.712	0.031	0.065	0.035	<b>0.743</b>	<b>0.777</b>	<b>0.747</b>
Right Tilted	0.293	0.079	0.368	0.481	0.039	0.007	0.036	<b>0.520</b>	<b>0.488</b>	<b>0.517</b>
Left Cheek	0.542	0.398	0.696	0.709	0.106	0.044	0.090	<b>0.815</b>	<b>0.753</b>	<b>0.799</b>
Left Tilted	0.629	0.031	0.779	0.791	0.134	0.004	0.206	<b>0.925</b>	<b>0.795</b>	<b>0.997</b>

**<WLAN Index2>**

Exposure Position	1	2	3	4	1+4 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	3+4 Summed 1g SAR (W/kg)
	WLAN2.4GHz Ant 4 1g SAR (W/kg)	WLAN2.4GHz Ant 3 1g SAR (W/kg)	WLAN2.4GHz Ant 4+3 1g SAR (W/kg)	WLAN5/6GHz Ant 4+3 1g SAR (W/kg)			
Right Cheek	0.130	0.355	0.190	0.565	<b>0.695</b>	<b>0.920</b>	<b>0.755</b>
Right Tilted	0.131	0.054	0.270	0.382	<b>0.513</b>	<b>0.436</b>	<b>0.652</b>
Left Cheek	0.407	0.272	0.452	0.570	<b>0.977</b>	<b>0.842</b>	<b>1.022</b>
Left Tilted	0.529	0.021	0.528	0.548	<b>1.077</b>	<b>0.569</b>	<b>1.076</b>

**<WWAN Index2>**

Exposure Position	Maximum WWAN_Ant 0 1g SAR (W/kg)	Maximum WWAN_Ant 1 1g SAR (W/kg)	Maximum WWAN_Ant 2 1g SAR (W/kg)	Maximum WWAN_Ant 5 1g SAR (W/kg)	Maximum WWAN_Ant 6 1g SAR (W/kg)	Maximum WWAN_Ant 7 1g SAR (W/kg)	Ant 0+1 Summed 1g SAR (W/kg)	Ant 0+2 Summed 1g SAR (W/kg)	Ant 0+5 Summed 1g SAR (W/kg)	Ant 0+7 Summed 1g SAR (W/kg)	Ant 1+2 Summed 1g SAR (W/kg)	Ant 1+6 Summed 1g SAR (W/kg)	Ant 1+7 Summed 1g SAR (W/kg)	Ant 2+5 Summed 1g SAR (W/kg)	Ant 2+6 Summed 1g SAR (W/kg)	Ant 5+6 Summed 1g SAR (W/kg)	Ant 5+7 Summed 1g SAR (W/kg)	Ant 6+7 Summed 1g SAR (W/kg)	SPLSR Ratio	Case No.
Right Cheek	0.374	0.965	0.835	0.385	0.273	0.594	1.339	1.209	0.759	0.968	1.800	1.238	1.559	1.220	1.108	0.658	0.979	0.867	<b>0.03</b>	<b>Case 1</b>
Right Tilted	0.206	0.949	0.413	0.176	0.151	0.086	1.155	0.619	0.382	0.292	1.362	1.100	1.035	0.589	0.564	0.327	0.262	0.237		
Left Cheek	0.500	0.558	0.426	0.707	0.296	0.246	1.058	0.926	1.207	0.746	0.984	0.854	0.804	1.133	0.722	1.003	0.953	0.542		
Left Tilted	0.196	0.496	0.490	0.408	0.107	0.170	0.692	0.686	0.604	0.366	0.986	0.603	0.666	0.898	0.597	0.515	0.578	0.277		



<WWAN Index3, WLAN Index3, BT Index1>

WWAN Band	Exposure Position	0	1	2	3	4	5	6	7	8	0+1+2	0+1+3	0+1+4	0+1+5	0+1+5+6	0+1+5+7	0+1+5+8	SPLSR Ratio	Case No.
		WWAN 1g SAR (W/kg)	WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 4 1g SAR (W/kg)	WLAN2.4GHz Ant 3 1g SAR (W/kg)	WLAN2.4GHz Ant 4+3 1g SAR (W/kg)	WLAN5/6GHz Ant 4+3 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 4+3 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)		
Ant 0+1	Right Cheek	0.319	0.822	0.068	0.277	0.056	0.281	0.031	0.065	0.035	1.209	1.418	1.197	1.422	1.453	1.487	1.457		
	Right Tilted	0.175	0.807	0.076	0.052	0.070	0.149	0.039	0.007	0.036	1.058	1.034	1.052	1.131	1.170	1.138	1.167		
	Left Cheek	0.425	0.475	0.224	0.259	0.203	0.294	0.106	0.044	0.090	1.124	1.159	1.103	1.194	1.300	1.238	1.284		
	Left Tilted	0.167	0.422	0.299	0.020	0.218	0.266	0.134	0.004	0.206	0.888	0.609	0.807	0.855	0.989	0.859	1.061		
Ant 0+2	Right Cheek	0.319	0.835	0.068	0.277	0.056	0.281	0.031	0.065	0.035	1.222	1.431	1.210	1.435	1.466	1.500	1.470		
	Right Tilted	0.175	0.413	0.076	0.052	0.070	0.149	0.039	0.007	0.036	0.664	0.640	0.658	0.737	0.776	0.744	0.773		
	Left Cheek	0.425	0.426	0.224	0.259	0.203	0.294	0.106	0.044	0.090	1.075	1.110	1.054	1.145	1.251	1.189	1.235		
	Left Tilted	0.167	0.490	0.299	0.020	0.218	0.266	0.134	0.004	0.206	0.956	0.677	0.875	0.923	1.057	0.927	1.129		
Ant 0+5	Right Cheek	0.319	0.328	0.068	0.277	0.056	0.281	0.031	0.065	0.035	0.715	0.924	0.703	0.928	0.959	0.993	0.963		
	Right Tilted	0.175	0.150	0.076	0.052	0.070	0.149	0.039	0.007	0.036	0.401	0.377	0.395	0.474	0.513	0.481	0.510		
	Left Cheek	0.425	0.601	0.224	0.259	0.203	0.294	0.106	0.044	0.090	1.250	1.285	1.229	1.320	1.426	1.364	1.410		
	Left Tilted	0.167	0.347	0.299	0.020	0.218	0.266	0.134	0.004	0.206	0.813	0.534	0.732	0.780	0.914	0.784	0.986		
Ant 0+7	Right Cheek	0.319	0.594	0.068	0.277	0.056	0.281	0.031	0.065	0.035	0.981	1.190	0.969	1.194	1.225	1.259	1.229		
	Right Tilted	0.175	0.086	0.076	0.052	0.070	0.149	0.039	0.007	0.036	0.337	0.313	0.331	0.410	0.449	0.417	0.446		
	Left Cheek	0.425	0.246	0.224	0.259	0.203	0.294	0.106	0.044	0.090	0.895	0.930	0.874	0.965	1.071	1.009	1.055		
	Left Tilted	0.167	0.170	0.299	0.020	0.218	0.266	0.134	0.004	0.206	0.636	0.357	0.555	0.603	0.737	0.607	0.809		
Ant 1+2	Right Cheek	0.822	0.835	0.068	0.277	0.056	0.281	0.031	0.065	0.035	1.725	1.934	1.713	1.938	1.969	2.003	1.973	0.04	Case 2
	Right Tilted	0.807	0.413	0.076	0.052	0.070	0.149	0.039	0.007	0.036	1.296	1.272	1.290	1.369	1.408	1.376	1.405		
	Left Cheek	0.475	0.426	0.224	0.259	0.203	0.294	0.106	0.044	0.090	1.125	1.160	1.104	1.195	1.301	1.239	1.285		
	Left Tilted	0.422	0.490	0.299	0.020	0.218	0.266	0.134	0.004	0.206	1.211	0.932	1.130	1.178	1.312	1.182	1.384		
Ant 1+6	Right Cheek	0.822	0.273	0.068	0.277	0.056	0.281	0.031	0.065	0.035	1.163	1.372	1.151	1.376	1.407	1.441	1.411		
	Right Tilted	0.807	0.151	0.076	0.052	0.070	0.149	0.039	0.007	0.036	1.034	1.010	1.028	1.107	1.146	1.114	1.143		
	Left Cheek	0.475	0.296	0.224	0.259	0.203	0.294	0.106	0.044	0.090	0.995	1.030	0.974	1.065	1.171	1.109	1.155		
	Left Tilted	0.422	0.107	0.299	0.020	0.218	0.266	0.134	0.004	0.206	0.828	0.549	0.747	0.795	0.929	0.799	1.001		
Ant 1+7	Right Cheek	0.822	0.594	0.068	0.277	0.056	0.281	0.031	0.065	0.035	1.484	1.693	1.472	1.697	1.728	1.762	1.732	0.03	Case 3
	Right Tilted	0.807	0.086	0.076	0.052	0.070	0.149	0.039	0.007	0.036	0.969	0.945	0.963	1.042	1.081	1.049	1.078		
	Left Cheek	0.475	0.246	0.224	0.259	0.203	0.294	0.106	0.044	0.090	0.945	0.980	0.924	1.015	1.121	1.059	1.105		
	Left Tilted	0.422	0.170	0.299	0.020	0.218	0.266	0.134	0.004	0.206	0.891	0.612	0.810	0.858	0.992	0.862	1.064		
Ant 2+5	Right Cheek	0.835	0.328	0.068	0.277	0.056	0.281	0.031	0.065	0.035	1.231	1.440	1.219	1.444	1.475	1.509	1.479		
	Right Tilted	0.413	0.150	0.076	0.052	0.070	0.149	0.039	0.007	0.036	0.639	0.615	0.633	0.712	0.751	0.719	0.748		
	Left Cheek	0.426	0.601	0.224	0.259	0.203	0.294	0.106	0.044	0.090	1.251	1.286	1.230	1.321	1.427	1.365	1.411		
	Left Tilted	0.490	0.347	0.299	0.020	0.218	0.266	0.134	0.004	0.206	1.136	0.857	1.055	1.103	1.237	1.107	1.309		
Ant 2+6	Right Cheek	0.835	0.273	0.068	0.277	0.056	0.281	0.031	0.065	0.035	1.176	1.385	1.164	1.389	1.420	1.454	1.424		
	Right Tilted	0.413	0.151	0.076	0.052	0.070	0.149	0.039	0.007	0.036	0.640	0.616	0.634	0.713	0.752	0.720	0.749		
	Left Cheek	0.426	0.296	0.224	0.259	0.203	0.294	0.106	0.044	0.090	0.946	0.981	0.925	1.016	1.122	1.060	1.106		
	Left Tilted	0.490	0.107	0.299	0.020	0.218	0.266	0.134	0.004	0.206	0.896	0.617	0.815	0.863	0.997	0.867	1.069		
Ant 5+6	Right Cheek	0.328	0.273	0.068	0.277	0.056	0.281	0.031	0.065	0.035	0.669	0.878	0.657	0.882	0.913	0.947	0.917		
	Right Tilted	0.150	0.151	0.076	0.052	0.070	0.149	0.039	0.007	0.036	0.377	0.353	0.371	0.450	0.489	0.457	0.486		
	Left Cheek	0.601	0.296	0.224	0.259	0.203	0.294	0.106	0.044	0.090	1.121	1.156	1.100	1.191	1.297	1.235	1.281		
	Left Tilted	0.347	0.107	0.299	0.020	0.218	0.266	0.134	0.004	0.206	0.753	0.474	0.672	0.720	0.854	0.724	0.926		
Ant 5+7	Right Cheek	0.328	0.594	0.068	0.277	0.056	0.281	0.031	0.065	0.035	0.990	1.199	0.978	1.203	1.234	1.268	1.238		
	Right Tilted	0.150	0.086	0.076	0.052	0.070	0.149	0.039	0.007	0.036	0.312	0.288	0.306	0.385	0.424	0.392	0.421		
	Left Cheek	0.601	0.246	0.224	0.259	0.203	0.294	0.106	0.044	0.090	1.071	1.106	1.050	1.141	1.247	1.185	1.231		
	Left Tilted	0.347	0.170	0.299	0.020	0.218	0.266	0.134	0.004	0.206	0.816	0.537	0.735	0.783	0.917	0.787	0.989		
Ant 6+7	Right Cheek	0.273	0.594	0.068	0.277	0.056	0.281	0.031	0.065	0.035	0.935	1.144	0.923	1.148	1.179	1.213	1.183		
	Right Tilted	0.151	0.086	0.076	0.052	0.070	0.149	0.039	0.007	0.036	0.313	0.289	0.307	0.386	0.425	0.393	0.422		
	Left Cheek	0.296	0.246	0.224	0.259	0.203	0.294	0.106	0.044	0.090	0.766	0.801	0.745	0.836	0.942	0.880	0.926		
	Left Tilted	0.107	0.170	0.299	0.020	0.218	0.266	0.134	0.004	0.206	0.576	0.297	0.495	0.543	0.677	0.547	0.749		



<WWAN Index3, WLAN Index4>

WWAN Band	Exposure Position	0	1	9	10	11	12	0+1+9+12 Summed 1g SAR (W/kg)	0+1+10+12 Summed 1g SAR (W/kg)	0+1+11+12 Summed 1g SAR (W/kg)	SPLSR Ratio	Case No.
		WWAN	WWAN	WLAN2.4GHz Ant 4	WLAN2.4GHz Ant 3	WLAN2.4GHz Ant 4+3	WLAN5/6GHz Ant 4+3					
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
Ant 0+1	Right Cheek	0.319	0.822	0.068	0.109	0.056	0.281	1.490	1.531	1.478		
	Right Tilted	0.175	0.807	0.076	0.022	0.070	0.149	1.207	1.153	1.201		
	Left Cheek	0.425	0.475	0.224	0.123	0.203	0.294	1.418	1.317	1.397		
	Left Tilted	0.167	0.422	0.299	0.007	0.218	0.266	1.154	0.862	1.073		
Ant 0+2	Right Cheek	0.319	0.835	0.068	0.109	0.056	0.281	1.503	1.544	1.491		
	Right Tilted	0.175	0.413	0.076	0.022	0.070	0.149	0.813	0.759	0.807		
	Left Cheek	0.425	0.426	0.224	0.123	0.203	0.294	1.369	1.268	1.348		
	Left Tilted	0.167	0.490	0.299	0.007	0.218	0.266	1.222	0.930	1.141		
Ant 0+5	Right Cheek	0.319	0.328	0.068	0.109	0.056	0.281	0.996	1.037	0.984		
	Right Tilted	0.175	0.150	0.076	0.022	0.070	0.149	0.550	0.496	0.544		
	Left Cheek	0.425	0.601	0.224	0.123	0.203	0.294	1.544	1.443	1.523		
	Left Tilted	0.167	0.347	0.299	0.007	0.218	0.266	1.079	0.787	0.998		
Ant 0+7	Right Cheek	0.319	0.594	0.068	0.109	0.056	0.281	1.262	1.303	1.250		
	Right Tilted	0.175	0.086	0.076	0.022	0.070	0.149	0.486	0.432	0.480		
	Left Cheek	0.425	0.246	0.224	0.123	0.203	0.294	1.189	1.088	1.168		
	Left Tilted	0.167	0.170	0.299	0.007	0.218	0.266	0.902	0.610	0.821		
Ant 1+2	Right Cheek	0.822	0.835	0.068	0.109	0.056	0.281	2.006	2.047	1.994	0.04	Case 4
	Right Tilted	0.807	0.413	0.076	0.022	0.070	0.149	1.445	1.391	1.439		
	Left Cheek	0.475	0.426	0.224	0.123	0.203	0.294	1.419	1.318	1.398		
	Left Tilted	0.422	0.490	0.299	0.007	0.218	0.266	1.477	1.185	1.396		
Ant 1+6	Right Cheek	0.822	0.273	0.068	0.109	0.056	0.281	1.444	1.485	1.432		
	Right Tilted	0.807	0.151	0.076	0.022	0.070	0.149	1.183	1.129	1.177		
	Left Cheek	0.475	0.296	0.224	0.123	0.203	0.294	1.289	1.188	1.268		
	Left Tilted	0.422	0.107	0.299	0.007	0.218	0.266	1.094	0.802	1.013		
Ant 1+7	Right Cheek	0.822	0.594	0.068	0.109	0.056	0.281	1.765	1.806	1.753	0.03	Case 5
	Right Tilted	0.807	0.086	0.076	0.022	0.070	0.149	1.118	1.064	1.112		
	Left Cheek	0.475	0.246	0.224	0.123	0.203	0.294	1.239	1.138	1.218		
	Left Tilted	0.422	0.170	0.299	0.007	0.218	0.266	1.157	0.865	1.076		
Ant 2+5	Right Cheek	0.835	0.328	0.068	0.109	0.056	0.281	1.512	1.553	1.500		
	Right Tilted	0.413	0.150	0.076	0.022	0.070	0.149	0.788	0.734	0.782		
	Left Cheek	0.426	0.601	0.224	0.123	0.203	0.294	1.545	1.444	1.524		
	Left Tilted	0.490	0.347	0.299	0.007	0.218	0.266	1.402	1.110	1.321		
Ant 2+6	Right Cheek	0.835	0.273	0.068	0.109	0.056	0.281	1.457	1.498	1.445		
	Right Tilted	0.413	0.151	0.076	0.022	0.070	0.149	0.789	0.735	0.783		
	Left Cheek	0.426	0.296	0.224	0.123	0.203	0.294	1.240	1.139	1.219		
	Left Tilted	0.490	0.107	0.299	0.007	0.218	0.266	1.162	0.870	1.081		
Ant 5+6	Right Cheek	0.328	0.273	0.068	0.109	0.056	0.281	0.950	0.991	0.938		
	Right Tilted	0.150	0.151	0.076	0.022	0.070	0.149	0.526	0.472	0.520		
	Left Cheek	0.601	0.296	0.224	0.123	0.203	0.294	1.415	1.314	1.394		
	Left Tilted	0.347	0.107	0.299	0.007	0.218	0.266	1.019	0.727	0.938		
Ant 5+7	Right Cheek	0.328	0.594	0.068	0.109	0.056	0.281	1.271	1.312	1.259		
	Right Tilted	0.150	0.086	0.076	0.022	0.070	0.149	0.461	0.407	0.455		
	Left Cheek	0.601	0.246	0.224	0.123	0.203	0.294	1.365	1.264	1.344		
	Left Tilted	0.347	0.170	0.299	0.007	0.218	0.266	1.082	0.790	1.001		
Ant 6+7	Right Cheek	0.273	0.594	0.068	0.109	0.056	0.281	1.216	1.257	1.204		
	Right Tilted	0.151	0.086	0.076	0.022	0.070	0.149	0.462	0.408	0.456		
	Left Cheek	0.296	0.246	0.224	0.123	0.203	0.294	1.060	0.959	1.039		
	Left Tilted	0.107	0.170	0.299	0.007	0.218	0.266	0.842	0.550	0.761		





F.4 Hotspot Sim-Tx analysis

<WWAN Index4, WLAN Index7>

WWAN Band	Exposure Position	0	1	2	3	4	5	0+1+2 Summed 1g SAR (W/kg)	0+1+3 Summed 1g SAR (W/kg)	0+1+4 Summed 1g SAR (W/kg)	0+1+5 Summed 1g SAR (W/kg)	SPLSR Ratio	Case No.
		WWAN	WWAN	WLAN2.4GHz Ant 4	WLAN2.4GHz Ant 3	WLAN2.4GHz Ant 4+3	WLAN5/6GHz Ant 4+3						
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
Ant 0+1	Front at 10mm	0.643	0.358	0.263	0.245	0.272	0.212	1.264	1.246	1.273	1.213		
	Back at 10mm	0.744	0.724	0.305	0.230	0.290	0.371	1.773	1.698	1.758	1.839	0.02	Case 6
	Left side at 10mm	0.629	0.339	0.001	0.423	0.205	0.337	0.969	1.391	1.173	1.305		
	Right side at 10mm	0.231	0.214	0.302	0.001	0.307	0.294	0.747	0.446	0.752	0.739		
	Top side at 10mm		0.718	0.513	0.024	0.413	0.219	1.231	0.742	1.131	0.937		
	Bottom side at 10mm	0.848						0.848	0.848	0.848	0.848		
Ant 0+2	Front at 10mm	0.643	0.644	0.263	0.245	0.272	0.212	1.550	1.532	1.559	1.499		
	Back at 10mm	0.744	0.512	0.305	0.230	0.290	0.371	1.561	1.486	1.546	1.627	0.02	Case 7
	Left side at 10mm	0.629	0.113	0.001	0.423	0.205	0.337	0.743	1.165	0.947	1.079		
	Right side at 10mm	0.231	0.685	0.302	0.001	0.307	0.294	1.218	0.917	1.223	1.210		
	Top side at 10mm			0.513	0.024	0.413	0.219	0.513	0.024	0.413	0.219		
	Bottom side at 10mm	0.848	0.383					1.231	1.231	1.231	1.231		
Ant 0+5	Front at 10mm	0.643	0.344	0.263	0.245	0.272	0.212	1.250	1.232	1.259	1.199		
	Back at 10mm	0.744	0.472	0.305	0.230	0.290	0.371	1.521	1.446	1.506	1.587		
	Left side at 10mm	0.629	0.042	0.001	0.423	0.205	0.337	0.672	1.094	0.876	1.008		
	Right side at 10mm	0.231	0.840	0.302	0.001	0.307	0.294	1.373	1.072	1.378	1.365		
	Top side at 10mm		0.086	0.513	0.024	0.413	0.219	0.599	0.110	0.499	0.305		
	Bottom side at 10mm	0.848						0.848	0.848	0.848	0.848		
Ant 0+7	Front at 10mm	0.643	0.461	0.263	0.245	0.272	0.212	1.367	1.349	1.376	1.316		
	Back at 10mm	0.744	0.626	0.305	0.230	0.290	0.371	1.675	1.600	1.660	1.741	0.02	Case 8
	Left side at 10mm	0.629	0.021	0.001	0.423	0.205	0.337	0.651	1.073	0.855	0.987		
	Right side at 10mm	0.231	0.815	0.302	0.001	0.307	0.294	1.348	1.047	1.353	1.340		
	Top side at 10mm			0.513	0.024	0.413	0.219	0.513	0.024	0.413	0.219		
	Bottom side at 10mm	0.848	0.149					0.997	0.997	0.997	0.997		
Ant 1+2	Front at 10mm	0.358	0.644	0.263	0.245	0.272	0.212	1.265	1.247	1.274	1.214		
	Back at 10mm	0.724	0.512	0.305	0.230	0.290	0.371	1.541	1.466	1.526	1.607	0.02	Case 9
	Left side at 10mm	0.339	0.113	0.001	0.423	0.205	0.337	0.453	0.875	0.657	0.789		
	Right side at 10mm	0.214	0.685	0.302	0.001	0.307	0.294	1.201	0.900	1.206	1.193		
	Top side at 10mm	0.718		0.513	0.024	0.413	0.219	1.231	0.742	1.131	0.937		
	Bottom side at 10mm		0.383					0.383	0.383	0.383	0.383		
Ant 1+6	Front at 10mm	0.358	0.368	0.263	0.245	0.272	0.212	0.989	0.971	0.998	0.938		
	Back at 10mm	0.724	0.340	0.305	0.230	0.290	0.371	1.369	1.294	1.354	1.435		
	Left side at 10mm	0.339	0.508	0.001	0.423	0.205	0.337	0.848	1.270	1.052	1.184		
	Right side at 10mm	0.214	0.041	0.302	0.001	0.307	0.294	0.557	0.256	0.562	0.549		
	Top side at 10mm	0.718		0.513	0.024	0.413	0.219	1.231	0.742	1.131	0.937		
	Bottom side at 10mm		0.395					0.395	0.395	0.395	0.395		
Ant 1+7	Front at 10mm	0.358	0.461	0.263	0.245	0.272	0.212	1.082	1.064	1.091	1.031		
	Back at 10mm	0.724	0.626	0.305	0.230	0.290	0.371	1.655	1.580	1.640	1.721	0.02	Case 10
	Left side at 10mm	0.339	0.021	0.001	0.423	0.205	0.337	0.361	0.783	0.565	0.697		
	Right side at 10mm	0.214	0.815	0.302	0.001	0.307	0.294	1.331	1.030	1.336	1.323		
	Top side at 10mm	0.718		0.513	0.024	0.413	0.219	1.231	0.742	1.131	0.937		
	Bottom side at 10mm		0.149					1.149	0.149	0.149	0.149		
Ant 2+5	Front at 10mm	0.644	0.344	0.263	0.245	0.272	0.212	1.251	1.233	1.260	1.200		
	Back at 10mm	0.512	0.472	0.305	0.230	0.290	0.371	1.289	1.214	1.274	1.355		
	Left side at 10mm	0.113	0.042	0.001	0.423	0.205	0.337	0.156	0.578	0.360	0.492		
	Right side at 10mm	0.685	0.840	0.302	0.001	0.307	0.294	1.827	1.526	1.832	1.819	0.03	Case 11





	Top side at 10mm		0.086	0.513	0.024	0.413	0.219	0.599	0.110	0.499	0.305		
	Bottom side at 10mm	0.383						0.383	0.383	0.383	0.383		
Ant 2+6	Front at 10mm	0.644	0.368	0.263	0.245	0.272	0.212	1.275	1.257	1.284	1.224		
	Back at 10mm	0.512	0.340	0.305	0.230	0.290	0.371	1.157	1.082	1.142	1.223		
	Left side at 10mm	0.113	0.508	0.001	0.423	0.205	0.337	0.622	1.044	0.826	0.958		
	Right side at 10mm	0.685	0.041	0.302	0.001	0.307	0.294	1.028	0.727	1.033	1.020		
	Top side at 10mm			0.513	0.024	0.413	0.219	0.513	0.024	0.413	0.219		
	Bottom side at 10mm	0.383	0.395					0.778	0.778	0.778	0.778		
Ant 5+6	Front at 10mm	0.344	0.368	0.263	0.245	0.272	0.212	0.975	0.957	0.984	0.924		
	Back at 10mm	0.472	0.340	0.305	0.230	0.290	0.371	1.117	1.042	1.102	1.183		
	Left side at 10mm	0.042	0.508	0.001	0.423	0.205	0.337	0.551	0.973	0.755	0.887		
	Right side at 10mm	0.840	0.041	0.302	0.001	0.307	0.294	1.183	0.882	1.188	1.175		
	Top side at 10mm	0.086		0.513	0.024	0.413	0.219	0.599	0.110	0.499	0.305		
	Bottom side at 10mm		0.395					0.395	0.395	0.395	0.395		
Ant 5+7	Front at 10mm	0.344	0.461	0.263	0.245	0.272	0.212	1.068	1.050	1.077	1.017		
	Back at 10mm	0.472	0.626	0.305	0.230	0.290	0.371	1.403	1.328	1.388	1.469		
	Left side at 10mm	0.042	0.021	0.001	0.423	0.205	0.337	0.064	0.486	0.268	0.400		
	Right side at 10mm	0.840	0.815	0.302	0.001	0.307	0.294	1.957	1.656	1.962	1.949	0.03	Case 12
	Top side at 10mm	0.086		0.513	0.024	0.413	0.219	0.599	0.110	0.499	0.305		
	Bottom side at 10mm		0.149					0.149	0.149	0.149	0.149		
Ant 6+7	Front at 10mm	0.368	0.461	0.263	0.245	0.272	0.212	1.092	1.074	1.101	1.041		
	Back at 10mm	0.340	0.626	0.305	0.230	0.290	0.371	1.271	1.196	1.256	1.337		
	Left side at 10mm	0.508	0.021	0.001	0.423	0.205	0.337	0.530	0.952	0.734	0.866		
	Right side at 10mm	0.041	0.815	0.302	0.001	0.307	0.294	1.158	0.857	1.163	1.150		
	Top side at 10mm			0.513	0.024	0.413	0.219	0.513	0.024	0.413	0.219		
	Bottom side at 10mm	0.395	0.149					0.544	0.544	0.544	0.544		

<WWAN Index4, WLAN Index8>

WWAN Band	Exposure Position	0	1	6	7	8	9	0+1+6+9 Summed 1g SAR (W/kg)	0+1+7+9 Summed 1g SAR (W/kg)	0+1+8+9 Summed 1g SAR (W/kg)	SPLSR Ratio	Case No.
		WWAN 1g SAR (W/kg)	WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 4 1g SAR (W/kg)	WLAN2.4GHz Ant 3 1g SAR (W/kg)	WLAN2.4GHz Ant 4+3 1g SAR (W/kg)	WLAN5/6GHz Ant 4+3 1g SAR (W/kg)					
Ant 0+1	Front at 10mm	0.643	0.358	0.162	0.119	0.105	0.170	1.333	1.290	1.276		
	Back at 10mm	0.744	0.724	0.186	0.114	0.122	0.284	1.938	1.866	1.874	0.03	Case 13
	Left side at 10mm	0.629	0.339	0.001	0.213	0.073	0.337	1.306	1.518	1.378		
	Right side at 10mm	0.231	0.214	0.193	0.001	0.122	0.216	0.854	0.662	0.783		
	Top side at 10mm		0.718	0.272	0.010	0.174	0.168	1.158	0.896	1.060		
	Bottom side at 10mm	0.848						0.848	0.848	0.848		
Ant 0+2	Front at 10mm	0.643	0.644	0.162	0.119	0.105	0.170	1.619	1.576	1.562	0.02	Case 14
	Back at 10mm	0.744	0.512	0.186	0.114	0.122	0.284	1.726	1.654	1.662	0.03	Case 15
	Left side at 10mm	0.629	0.113	0.001	0.213	0.073	0.337	1.080	1.292	1.152		
	Right side at 10mm	0.231	0.685	0.193	0.001	0.122	0.216	1.325	1.133	1.254		
	Top side at 10mm			0.272	0.010	0.174	0.168	0.440	0.178	0.342		
	Bottom side at 10mm	0.848	0.383					1.231	1.231	1.231		
Ant 0+5	Front at 10mm	0.643	0.344	0.162	0.119	0.105	0.170	1.319	1.276	1.262		
	Back at 10mm	0.744	0.472	0.186	0.114	0.122	0.284	1.686	1.614	1.622	0.02	Case 16
	Left side at 10mm	0.629	0.042	0.001	0.213	0.073	0.337	1.009	1.221	1.081		
	Right side at 10mm	0.231	0.840	0.193	0.001	0.122	0.216	1.480	1.288	1.409		
	Top side at 10mm		0.086	0.272	0.010	0.174	0.168	0.526	0.264	0.428		
	Bottom side at 10mm	0.848						0.848	0.848	0.848		
Ant 0+7	Front at 10mm	0.643	0.461	0.162	0.119	0.105	0.170	1.436	1.393	1.379		
	Back at 10mm	0.744	0.626	0.186	0.114	0.122	0.284	1.840	1.768	1.776	0.02	Case 17
	Left side at 10mm	0.629	0.021	0.001	0.213	0.073	0.337	0.988	1.200	1.060		
	Right side at 10mm	0.231	0.815	0.193	0.001	0.122	0.216	1.455	1.263	1.384		



	Top side at 10mm			0.272	0.010	0.174	0.168	0.440	0.178	0.342		
	Bottom side at 10mm	0.848	0.149					0.997	0.997	0.997		
Ant 1+2	Front at 10mm	0.358	0.644	0.162	0.119	0.105	0.170	1.334	1.291	1.277		
	Back at 10mm	0.724	0.512	0.186	0.114	0.122	0.284	1.706	1.634	1.642	0.02	Case 18
	Left side at 10mm	0.339	0.113	0.001	0.213	0.073	0.337	0.790	1.002	0.862		
	Right side at 10mm	0.214	0.685	0.193	0.001	0.122	0.216	1.308	1.116	1.237		
	Top side at 10mm	0.718		0.272	0.010	0.174	0.168	1.158	0.896	1.060		
	Bottom side at 10mm		0.383					0.383	0.383	0.383		
Ant 1+6	Front at 10mm	0.358	0.368	0.162	0.119	0.105	0.170	1.058	1.015	1.001		
	Back at 10mm	0.724	0.340	0.186	0.114	0.122	0.284	1.534	1.462	1.470		
	Left side at 10mm	0.339	0.508	0.001	0.213	0.073	0.337	1.185	1.397	1.257		
	Right side at 10mm	0.214	0.041	0.193	0.001	0.122	0.216	0.664	0.472	0.593		
	Top side at 10mm	0.718		0.272	0.010	0.168	0.168	1.158	0.896	1.054		
	Bottom side at 10mm		0.395					0.395	0.395	0.395		
Ant 1+7	Front at 10mm	0.358	0.461	0.162	0.119	0.105	0.170	1.151	1.108	1.094		
	Back at 10mm	0.724	0.626	0.186	0.114	0.122	0.284	1.820	1.748	1.756	0.02	Case 19
	Left side at 10mm	0.339	0.021	0.001	0.213	0.073	0.337	0.698	0.910	0.770		
	Right side at 10mm	0.214	0.815	0.193	0.001	0.122	0.216	1.438	1.246	1.367		
	Top side at 10mm	0.718		0.272	0.010	0.174	0.168	1.158	0.896	1.060		
	Bottom side at 10mm		0.149					0.149	0.149	0.149		
Ant 2+5	Front at 10mm	0.644	0.344	0.162	0.119	0.105	0.170	1.320	1.277	1.263		
	Back at 10mm	0.512	0.472	0.186	0.114	0.122	0.284	1.454	1.382	1.390		
	Left side at 10mm	0.113	0.042	0.001	0.213	0.073	0.337	0.493	0.705	0.565		
	Right side at 10mm	0.685	0.840	0.193	0.001	0.122	0.216	1.934	1.742	1.863	0.04	Case 20
	Top side at 10mm		0.086	0.272	0.010	0.174	0.168	0.526	0.264	0.428		
	Bottom side at 10mm	0.383						0.383	0.383	0.383		
Ant 2+6	Front at 10mm	0.644	0.368	0.162	0.119	0.105	0.170	1.344	1.301	1.287		
	Back at 10mm	0.512	0.340	0.186	0.114	0.122	0.284	1.322	1.250	1.258		
	Left side at 10mm	0.113	0.508	0.001	0.213	0.073	0.337	0.959	1.171	1.031		
	Right side at 10mm	0.685	0.041	0.193	0.001	0.122	0.216	1.135	0.943	1.064		
	Top side at 10mm			0.272	0.010	0.174	0.168	0.440	0.178	0.342		
	Bottom side at 10mm	0.383	0.395					0.778	0.778	0.778		
Ant 5+6	Front at 10mm	0.344	0.368	0.162	0.119	0.105	0.170	1.044	1.001	0.987		
	Back at 10mm	0.472	0.340	0.186	0.114	0.122	0.284	1.282	1.210	1.218		
	Left side at 10mm	0.042	0.508	0.001	0.213	0.073	0.337	0.888	1.100	0.960		
	Right side at 10mm	0.840	0.041	0.193	0.001	0.122	0.216	1.290	1.098	1.219		
	Top side at 10mm	0.086		0.272	0.010	0.174	0.168	0.526	0.264	0.428		
	Bottom side at 10mm		0.395					0.395	0.395	0.395		
Ant 5+7	Front at 10mm	0.344	0.461	0.162	0.119	0.105	0.170	1.137	1.094	1.080		
	Back at 10mm	0.472	0.626	0.186	0.114	0.122	0.284	1.568	1.496	1.504		
	Left side at 10mm	0.042	0.021	0.001	0.213	0.073	0.337	0.401	0.613	0.473		
	Right side at 10mm	0.840	0.815	0.193	0.001	0.122	0.216	2.064	1.872	1.993	0.04	Case 21
	Top side at 10mm	0.086		0.272	0.010	0.174	0.168	0.526	0.264	0.428		
	Bottom side at 10mm		0.149					0.149	0.149	0.149		
Ant 6+7	Front at 10mm	0.368	0.461	0.162	0.119	0.105	0.170	1.161	1.118	1.104		
	Back at 10mm	0.340	0.626	0.186	0.114	0.122	0.284	1.436	1.364	1.372		
	Left side at 10mm	0.508	0.021	0.001	0.213	0.073	0.337	0.867	1.079	0.939		
	Right side at 10mm	0.041	0.815	0.193	0.001	0.122	0.216	1.265	1.073	1.194		
	Top side at 10mm			0.272	0.010	0.174	0.168	0.440	0.178	0.342		
	Bottom side at 10mm	0.395	0.149					0.544	0.544	0.544		

**<WWAN Index4, WLAN Index9, BT Index3, Index4>**

WWAN Band	Exposure Position	0	1	10	11	12	13	0+1+10+11	0+1+10+12	0+1+10+13	SPLSR Ratio	Case No.
		WWAN	WWAN	WLAN5/6GHz Ant 4+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
Ant 0+1	Front at 10mm	0.643	0.358	0.170	0.152	0.113	0.134	1.323	1.284	1.305		
	Back at 10mm	0.744	0.724	0.284	0.147	0.138	0.161	1.899	1.890	1.913	0.03	Case 22
	Left side at 10mm	0.629	0.339	0.337	0.001	0.262	0.110	1.306	1.567	1.415		
	Right side at 10mm	0.231	0.214	0.216	0.173	0.001	0.193	0.834	0.662	0.854		
	Top side at 10mm		0.718	0.168	0.286	0.013	0.210	1.172	0.899	1.096		
	Bottom side at 10mm	0.848						0.848	0.848	0.848		
Ant 0+2	Front at 10mm	0.643	0.644	0.170	0.152	0.113	0.134	1.609	1.570	1.591	0.02	Case 23
	Back at 10mm	0.744	0.512	0.284	0.147	0.138	0.161	1.687	1.678	1.701	0.02	Case 24
	Left side at 10mm	0.629	0.113	0.337	0.001	0.262	0.110	1.080	1.341	1.189		
	Right side at 10mm	0.231	0.685	0.216	0.173	0.001	0.193	1.305	1.133	1.325		
	Top side at 10mm			0.168	0.286	0.013	0.210	0.454	0.181	0.378		
	Bottom side at 10mm	0.848	0.383					1.231	1.231	1.231		
Ant 0+5	Front at 10mm	0.643	0.344	0.170	0.152	0.113	0.134	1.309	1.270	1.291		
	Back at 10mm	0.744	0.472	0.284	0.147	0.138	0.161	1.647	1.638	1.661	0.02	Case 25
	Left side at 10mm	0.629	0.042	0.337	0.001	0.262	0.110	1.009	1.270	1.118		
	Right side at 10mm	0.231	0.840	0.216	0.173	0.001	0.193	1.460	1.288	1.480		
	Top side at 10mm		0.086	0.168	0.286	0.013	0.210	0.540	0.267	0.464		
	Bottom side at 10mm	0.848						0.848	0.848	0.848		
Ant 0+7	Front at 10mm	0.643	0.461	0.170	0.152	0.113	0.134	1.426	1.387	1.408		
	Back at 10mm	0.744	0.626	0.284	0.147	0.138	0.161	1.801	1.792	1.815	0.02	Case 26
	Left side at 10mm	0.629	0.021	0.337	0.001	0.262	0.110	0.988	1.249	1.097		
	Right side at 10mm	0.231	0.815	0.216	0.173	0.001	0.193	1.435	1.263	1.455		
	Top side at 10mm			0.168	0.286	0.013	0.210	0.454	0.181	0.378		
	Bottom side at 10mm	0.848	0.149					0.997	0.997	0.997		
Ant 1+2	Front at 10mm	0.358	0.644	0.170	0.152	0.113	0.134	1.324	1.285	1.306		
	Back at 10mm	0.724	0.512	0.284	0.147	0.138	0.161	1.667	1.658	1.681	0.02	Case 27
	Left side at 10mm	0.339	0.113	0.337	0.001	0.262	0.110	0.790	1.051	0.899		
	Right side at 10mm	0.214	0.685	0.216	0.173	0.001	0.193	1.288	1.116	1.308		
	Top side at 10mm	0.718		0.168	0.286	0.013	0.210	1.172	0.899	1.096		
	Bottom side at 10mm		0.383					0.383	0.383	0.383		
Ant 1+6	Front at 10mm	0.358	0.368	0.170	0.152	0.113	0.134	1.048	1.009	1.030		
	Back at 10mm	0.724	0.340	0.284	0.147	0.138	0.161	1.495	1.486	1.509		
	Left side at 10mm	0.339	0.508	0.337	0.001	0.262	0.110	1.185	1.446	1.294		
	Right side at 10mm	0.214	0.041	0.216	0.173	0.001	0.193	0.644	0.472	0.664		
	Top side at 10mm	0.718		0.168	0.286	0.013	0.210	1.172	0.899	1.096		
	Bottom side at 10mm		0.395					0.395	0.395	0.395		
Ant 1+7	Front at 10mm	0.358	0.461	0.170	0.152	0.113	0.134	1.141	1.102	1.123		
	Back at 10mm	0.724	0.626	0.284	0.147	0.138	0.161	1.781	1.772	1.795	0.02	Case 28
	Left side at 10mm	0.339	0.021	0.337	0.001	0.262	0.110	0.698	0.959	0.807		
	Right side at 10mm	0.214	0.815	0.216	0.173	0.001	0.193	1.418	1.246	1.438		
	Top side at 10mm	0.718		0.168	0.286	0.013	0.210	1.172	0.899	1.096		
	Bottom side at 10mm		0.149					0.149	0.149	0.149		
Ant 2+5	Front at 10mm	0.644	0.344	0.170	0.152	0.113	0.134	1.310	1.271	1.292		
	Back at 10mm	0.512	0.472	0.284	0.147	0.138	0.161	1.415	1.406	1.429		
	Left side at 10mm	0.113	0.042	0.337	0.001	0.262	0.110	0.493	0.754	0.602		
	Right side at 10mm	0.685	0.840	0.216	0.173	0.001	0.193	1.914	1.742	1.934	0.04	Case 29
	Top side at 10mm		0.086	0.168	0.286	0.013	0.210	0.540	0.267	0.464		
	Bottom side at 10mm	0.383						0.383	0.383	0.383		
Ant 2+6	Front at 10mm	0.644	0.368	0.170	0.152	0.113	0.134	1.334	1.295	1.316		



	Back at 10mm	0.512	0.340	0.284	0.147	0.138	0.161	<b>1.283</b>	<b>1.274</b>	<b>1.297</b>		
	Left side at 10mm	0.113	0.508	0.337	0.001	0.262	0.110	<b>0.959</b>	<b>1.220</b>	<b>1.068</b>		
	Right side at 10mm	0.685	0.041	0.216	0.173	0.001	0.193	<b>1.115</b>	<b>0.943</b>	<b>1.135</b>		
	Top side at 10mm			0.168	0.286	0.013	0.210	<b>0.454</b>	<b>0.181</b>	<b>0.378</b>		
	Bottom side at 10mm	0.383	0.395					<b>0.778</b>	<b>0.778</b>	<b>0.778</b>		
Ant 5+6	Front at 10mm	0.344	0.368	0.170	0.152	0.113	0.134	<b>1.034</b>	<b>0.995</b>	<b>1.016</b>		
	Back at 10mm	0.472	0.340	0.284	0.147	0.138	0.161	<b>1.243</b>	<b>1.234</b>	<b>1.257</b>		
	Left side at 10mm	0.042	0.508	0.337	0.001	0.262	0.110	<b>0.888</b>	<b>1.149</b>	<b>0.997</b>		
	Right side at 10mm	0.840	0.041	0.216	0.173	0.001	0.193	<b>1.270</b>	<b>1.098</b>	<b>1.290</b>		
	Top side at 10mm	0.086		0.168	0.286	0.013	0.210	<b>0.540</b>	<b>0.267</b>	<b>0.464</b>		
	Bottom side at 10mm		0.395					<b>0.395</b>	<b>0.395</b>	<b>0.395</b>		
Ant 5+7	Front at 10mm	0.344	0.461	0.170	0.152	0.113	0.134	<b>1.127</b>	<b>1.088</b>	<b>1.109</b>		
	Back at 10mm	0.472	0.626	0.284	0.147	0.138	0.161	<b>1.529</b>	<b>1.520</b>	<b>1.543</b>		
	Left side at 10mm	0.042	0.021	0.337	0.001	0.262	0.110	<b>0.401</b>	<b>0.662</b>	<b>0.510</b>		
	Right side at 10mm	0.840	0.815	0.216	0.173	0.001	0.193	<b>2.044</b>	<b>1.872</b>	<b>2.064</b>	<b>0.04</b>	<b>Case 30</b>
	Top side at 10mm	0.086		0.168	0.286	0.013	0.210	<b>0.540</b>	<b>0.267</b>	<b>0.464</b>		
	Bottom side at 10mm		0.149					<b>0.149</b>	<b>0.149</b>	<b>0.149</b>		
Ant 6+7	Front at 10mm	0.368	0.461	0.170	0.152	0.113	0.134	<b>1.151</b>	<b>1.112</b>	<b>1.133</b>		
	Back at 10mm	0.340	0.626	0.284	0.147	0.138	0.161	<b>1.397</b>	<b>1.388</b>	<b>1.411</b>		
	Left side at 10mm	0.508	0.021	0.337	0.001	0.262	0.110	<b>0.867</b>	<b>1.128</b>	<b>0.976</b>		
	Right side at 10mm	0.041	0.815	0.216	0.173	0.001	0.193	<b>1.245</b>	<b>1.073</b>	<b>1.265</b>		
	Top side at 10mm			0.168	0.286	0.013	0.210	<b>0.454</b>	<b>0.181</b>	<b>0.378</b>		
	Bottom side at 10mm	0.395	0.149					<b>0.544</b>	<b>0.544</b>	<b>0.544</b>		



**F.5 Body-worn Sim-Tx analysis**

**<WLAN Index5, BT Index3>**

Exposure Position	1	2	3	4	5	6	7	4+5 Summed 1g SAR (W/kg)	4+6 Summed 1g SAR (W/kg)	4+7 Summed 1g SAR (W/kg)
	WLAN2.4GHz Ant 4 1g SAR (W/kg)	WLAN2.4GHz Ant 3 1g SAR (W/kg)	WLAN2.4GHz Ant 4+3 1g SAR (W/kg)	WLAN5/6GHz Ant 4+3 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 4+3 1g SAR (W/kg)			
Front	0.526	0.266	0.525	0.261	0.161	0.113	0.134	<b>0.422</b>	<b>0.374</b>	<b>0.395</b>
Back	0.636	0.230	0.550	0.402	0.147	0.171	0.161	<b>0.549</b>	<b>0.573</b>	<b>0.563</b>

**<WLAN Index6>**

Exposure Position	1	2	3	4	1+4 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	3+4 Summed 1g SAR (W/kg)
	WLAN2.4GHz Ant 4 1g SAR (W/kg)	WLAN2.4GHz Ant 3 1g SAR (W/kg)	WLAN2.4GHz Ant 4+3 1g SAR (W/kg)	WLAN5/6GHz Ant 4+3 1g SAR (W/kg)			
Front	0.263	0.266	0.272	0.212	<b>0.475</b>	<b>0.478</b>	<b>0.484</b>
Back	0.348	0.230	0.314	0.402	<b>0.750</b>	<b>0.632</b>	<b>0.716</b>

**<WWAN Index5>**

Exposure Position	Maximum WWAN_Ant 0 1g SAR (W/kg)	Maximum WWAN_Ant 1 1g SAR (W/kg)	Maximum WWAN_Ant 2 1g SAR (W/kg)	Maximum WWAN_Ant 5 1g SAR (W/kg)	Maximum WWAN_Ant 6 1g SAR (W/kg)	Maximum WWAN_Ant 7 1g SAR (W/kg)	Ant 0+1 Summed 1g SAR (W/kg)	Ant 0+2 Summed 1g SAR (W/kg)	Ant 0+5 Summed 1g SAR (W/kg)	Ant 0+7 Summed 1g SAR (W/kg)	Ant 1+2 Summed 1g SAR (W/kg)	Ant 1+6 Summed 1g SAR (W/kg)	Ant 1+7 Summed 1g SAR (W/kg)	Ant 2+5 Summed 1g SAR (W/kg)	Ant 2+6 Summed 1g SAR (W/kg)	Ant 5+6 Summed 1g SAR (W/kg)	Ant 5+7 Summed 1g SAR (W/kg)	Ant 6+7 Summed 1g SAR (W/kg)	SPLSR Ratio	Case No.
Front	0.978	0.421	0.757	0.474	0.432	0.461	1.399	1.735	1.452	1.439	1.178	0.853	0.882	1.231	1.189	0.906	0.935	0.893	0.04	Case 31
Back	0.981	0.851	0.602	0.687	0.399	0.640	1.832	1.583	1.668	1.621	1.453	1.250	1.491	1.289	1.001	1.086	1.327	1.039	0.04	Case 32

**<WWAN Index6, WLAN Index7>**

WWAN Band	Exposure Position	0	1	2	3	4	5	0+1+2 Summed 1g SAR (W/kg)	0+1+3 Summed 1g SAR (W/kg)	0+1+4 Summed 1g SAR (W/kg)	0+1+5 Summed 1g SAR (W/kg)	SPLSR Ratio	Case No.
		WWAN	WWAN	WLAN2.4GHz Ant 4 Index 7	WLAN2.4GHz Ant 3	WLAN2.4GHz Ant 4+3	WLAN5/6GHz Ant 4+3						
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
Ant 0+1	Front at 10mm	0.832	0.358	0.263	0.266	0.272	0.212	1.453	1.456	1.462	1.402		
	Back at 10mm	0.835	0.724	0.348	0.230	0.314	0.402	1.907	1.789	1.873	1.961	0.03	Case 33
Ant 0+2	Front at 10mm	0.832	0.696	0.263	0.266	0.272	0.212	1.791	1.794	1.800	1.740	0.02	Case 34
	Back at 10mm	0.835	0.512	0.348	0.230	0.314	0.402	1.695	1.577	1.661	1.749	0.02	Case 35
Ant 0+5	Front at 10mm	0.832	0.404	0.263	0.266	0.272	0.212	1.499	1.502	1.508	1.448		
	Back at 10mm	0.835	0.585	0.348	0.230	0.314	0.402	1.768	1.650	1.734	1.822	0.02	Case 36
Ant 0+7	Front at 10mm	0.832	0.461	0.263	0.266	0.272	0.212	1.556	1.559	1.565	1.505		
	Back at 10mm	0.835	0.626	0.348	0.230	0.314	0.402	1.809	1.691	1.775	1.863	0.02	Case 37
Ant 1+2	Front at 10mm	0.358	0.696	0.263	0.266	0.272	0.212	1.317	1.320	1.326	1.266		
	Back at 10mm	0.724	0.512	0.348	0.230	0.314	0.402	1.584	1.466	1.550	1.638	0.02	Case 38
Ant 1+6	Front at 10mm	0.358	0.368	0.263	0.266	0.272	0.212	0.989	0.992	0.998	0.938		
	Back at 10mm	0.724	0.340	0.348	0.230	0.314	0.402	1.412	1.294	1.378	1.466		
Ant 1+7	Front at 10mm	0.358	0.461	0.263	0.266	0.272	0.212	1.082	1.085	1.091	1.031		
	Back at 10mm	0.724	0.626	0.348	0.230	0.314	0.402	1.698	1.580	1.664	1.752	0.02	Case 39
Ant 2+5	Front at 10mm	0.696	0.404	0.263	0.266	0.272	0.212	1.363	1.366	1.372	1.312		
	Back at 10mm	0.512	0.585	0.348	0.230	0.314	0.402	1.445	1.327	1.411	1.499		
Ant 2+6	Front at 10mm	0.696	0.368	0.263	0.266	0.272	0.212	1.327	1.330	1.336	1.276		
	Back at 10mm	0.512	0.340	0.348	0.230	0.314	0.402	1.200	1.082	1.166	1.254		
Ant 5+6	Front at 10mm	0.404	0.368	0.263	0.266	0.272	0.212	1.035	1.038	1.044	0.984		
	Back at 10mm	0.585	0.340	0.348	0.230	0.314	0.402	1.273	1.155	1.239	1.327		
Ant 5+7	Front at 10mm	0.404	0.461	0.263	0.266	0.272	0.212	1.128	1.131	1.137	1.077		
	Back at 10mm	0.585	0.626	0.348	0.230	0.314	0.402	1.559	1.441	1.525	1.613	0.02	Case 40
Ant 6+7	Front at 10mm	0.368	0.461	0.263	0.266	0.272	0.212	1.092	1.095	1.101	1.041		
	Back at 10mm	0.340	0.626	0.348	0.230	0.314	0.402	1.314	1.196	1.280	1.368		



**<WWAN Index6, WLAN Index8>**

WWAN Band	Exposure Position	0	1	6	7	8	9	0+1+6+9 Summed 1g SAR (W/kg)	0+1+7+9 Summed 1g SAR (W/kg)	0+1+8+9 Summed 1g SAR (W/kg)	SPLSR Ratio	Case No.
		WWAN	WWAN	WLAN2.4GHz Ant 4	WLAN2.4GHz Ant 3	WLAN2.4GHz Ant 4+3	WLAN5/6GHz Ant 4+3					
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
Ant 0+1	Front at 10mm	0.832	0.358	0.162	0.130	0.105	0.182	1.534	1.502	1.477		
	Back at 10mm	0.835	0.724	0.204	0.114	0.122	0.294	2.057	1.967	1.975	0.03	Case 41
Ant 0+2	Front at 10mm	0.832	0.696	0.162	0.130	0.105	0.182	1.872	1.840	1.815	0.03	Case 42
	Back at 10mm	0.835	0.512	0.204	0.114	0.122	0.294	1.845	1.755	1.763	0.02	Case 43
Ant 0+5	Front at 10mm	0.832	0.404	0.162	0.130	0.105	0.182	1.580	1.548	1.523		
	Back at 10mm	0.835	0.585	0.204	0.114	0.122	0.294	1.918	1.828	1.836	0.03	Case 44
Ant 0+7	Front at 10mm	0.832	0.461	0.162	0.130	0.105	0.182	1.637	1.605	1.580	0.02	Case 45
	Back at 10mm	0.835	0.626	0.204	0.114	0.122	0.294	1.959	1.869	1.877	0.03	Case 46
Ant 1+2	Front at 10mm	0.358	0.696	0.162	0.130	0.105	0.182	1.398	1.366	1.341		
	Back at 10mm	0.724	0.512	0.204	0.114	0.122	0.294	1.734	1.644	1.652	0.02	Case 47
Ant 1+6	Front at 10mm	0.358	0.368	0.162	0.130	0.105	0.182	1.070	1.038	1.013		
	Back at 10mm	0.724	0.340	0.204	0.114	0.122	0.294	1.562	1.472	1.480		
Ant 1+7	Front at 10mm	0.358	0.461	0.162	0.130	0.105	0.182	1.163	1.131	1.106		
	Back at 10mm	0.724	0.626	0.204	0.114	0.122	0.294	1.848	1.758	1.766	0.02	Case 48
Ant 2+5	Front at 10mm	0.696	0.404	0.162	0.130	0.105	0.182	1.444	1.412	1.387		
	Back at 10mm	0.512	0.585	0.204	0.114	0.122	0.294	1.595	1.505	1.513	0.02	Case 49
Ant 2+6	Front at 10mm	0.696	0.368	0.162	0.130	0.105	0.182	1.408	1.376	1.351		
	Back at 10mm	0.512	0.340	0.204	0.114	0.122	0.294	1.350	1.260	1.268		
Ant 5+6	Front at 10mm	0.404	0.368	0.162	0.130	0.105	0.182	1.116	1.084	1.059		
	Back at 10mm	0.585	0.340	0.204	0.114	0.122	0.294	1.423	1.333	1.341		
Ant 5+7	Front at 10mm	0.404	0.461	0.162	0.130	0.105	0.182	1.209	1.177	1.152		
	Back at 10mm	0.585	0.626	0.204	0.114	0.122	0.294	1.709	1.619	1.627	0.03	Case 50
Ant 6+7	Front at 10mm	0.368	0.461	0.162	0.130	0.105	0.182	1.173	1.141	1.116		
	Back at 10mm	0.340	0.626	0.204	0.114	0.122	0.294	1.464	1.374	1.382		



**<WWAN Index6, WLAN Index9, BT Index3, Index 4>**

WWAN Band	Exposure Position	0	1	10	11	12	13	0+1+10+11	0+1+10+12	0+1+10+13	SPLSR Ratio	Case No.
		WWAN 1g SAR (W/kg)	WWAN 1g SAR (W/kg)	WLAN5/6GHz Ant 4+3 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 4+3 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)		
Ant 0+1	Front at 10mm	0.832	0.358	0.182	0.161	0.113	0.134	1.533	1.485	1.506		
	Back at 10mm	0.835	0.724	0.294	0.147	0.171	0.161	2.000	2.024	2.014	0.03	Case 51
Ant 0+2	Front at 10mm	0.832	0.696	0.182	0.161	0.113	0.134	1.871	1.823	1.844	0.03	Case 52
	Back at 10mm	0.835	0.512	0.294	0.147	0.171	0.161	1.788	1.812	1.802	0.02	Case 53
Ant 0+5	Front at 10mm	0.832	0.404	0.182	0.161	0.113	0.134	1.579	1.531	1.552		
	Back at 10mm	0.835	0.585	0.294	0.147	0.171	0.161	1.861	1.885	1.875	0.03	Case 54
Ant 0+7	Front at 10mm	0.832	0.461	0.182	0.161	0.113	0.134	1.636	1.588	1.609	0.02	Case 55
	Back at 10mm	0.835	0.626	0.294	0.147	0.171	0.161	1.902	1.926	1.916	0.03	Case 56
Ant 1+2	Front at 10mm	0.358	0.696	0.182	0.161	0.113	0.134	1.397	1.349	1.370		
	Back at 10mm	0.724	0.512	0.294	0.147	0.171	0.161	1.677	1.701	1.691	0.02	Case 57
Ant 1+6	Front at 10mm	0.358	0.368	0.182	0.161	0.113	0.134	1.069	1.021	1.042		
	Back at 10mm	0.724	0.340	0.294	0.147	0.171	0.161	1.505	1.529	1.519		
Ant 1+7	Front at 10mm	0.358	0.461	0.182	0.161	0.113	0.134	1.162	1.114	1.135		
	Back at 10mm	0.724	0.626	0.294	0.147	0.171	0.161	1.791	1.815	1.805	0.02	Case 58
Ant 2+5	Front at 10mm	0.696	0.404	0.182	0.161	0.113	0.134	1.443	1.395	1.416		
	Back at 10mm	0.512	0.585	0.294	0.147	0.171	0.161	1.538	1.562	1.552		
Ant 2+6	Front at 10mm	0.696	0.368	0.182	0.161	0.113	0.134	1.407	1.359	1.380		
	Back at 10mm	0.512	0.340	0.294	0.147	0.171	0.161	1.293	1.317	1.307		
Ant 5+6	Front at 10mm	0.404	0.368	0.182	0.161	0.113	0.134	1.115	1.067	1.088		
	Back at 10mm	0.585	0.340	0.294	0.147	0.171	0.161	1.366	1.390	1.380		
Ant 5+7	Front at 10mm	0.404	0.461	0.182	0.161	0.113	0.134	1.208	1.160	1.181		
	Back at 10mm	0.585	0.626	0.294	0.147	0.171	0.161	1.652	1.676	1.666	0.02	Case 59
Ant 6+7	Front at 10mm	0.368	0.461	0.182	0.161	0.113	0.134	1.172	1.124	1.145		
	Back at 10mm	0.340	0.626	0.294	0.147	0.171	0.161	1.407	1.431	1.421		

**F.6 Extremity Sim-Tx analysis**

**<WWAN, WLAN Index7/8/9>**

WWAN Band	Exposure Position	0	5	9	10	14	0+5+14 Summed 1g SAR (W/kg)	0+9+14 Summed 1g SAR (W/kg)	0+10+14 Summed 1g SAR (W/kg)
		WWAN 10g SAR (W/kg)	WLAN5/6GHz Ant 4+3 10g SAR (W/kg)	WLAN5/6GHz Ant 4+3 10g SAR (W/kg)	WLAN5/6GHz Ant 4+3 10g SAR (W/kg)	NFC 10g SAR (W/kg)			
Ant 0	Front at 10mm		0.955	0.762	0.762	0.001	0.956	0.763	0.763
	Back at 10mm		0.549	0.418	0.418	0.093	0.642	0.511	0.511
	Left side at 10mm		1.405	1.206	1.206	0.002	1.407	1.208	1.208
	Right side at 10mm		1.160	0.917	0.917	0.001	1.161	0.918	0.918
	Top side at 10mm		0.845	0.754	0.754		0.845	0.754	0.754
	Bottom side at 10mm	2.484					2.484	2.484	2.484

**F.7 SAR Peak Location Distance and SPLSR analysis**

**<Case 1>**

SPLSR calculation for antenna (1,2)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 1	Right Cheek	0.965	0mm	13.8	-313.1	-174.2	81.2	1.800	0.03	Not required
WWAN Ant 2		0.835	0mm	55.9	-243.7	-173.3				

**<Case 2>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Right Cheek	0.835	0mm	59.6	-244	-173.3	76.9	2.003	0.04	Not required
WWAN Ant 1 + WLAN Ant 3+4 + BT Ant 3		1.168	0mm	69.6	-320.2	-170.9				

**<Case 3>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Right Cheek	0.594	10mm	47.3	-241.9	-173.7	73.3	1.762	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4 + BT Ant 3		1.168	10mm	-6.8	-291.1	-168.6				

**<Case 4>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Right Cheek	0.835	0mm	59.6	-244	-173.3	78.6	2.047	0.04	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.212	0mm	67	-322.2	-171.4				

**<Case 5>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Right Cheek	0.594	10mm	47.3	-241.9	-173.7	77.3	1.806	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.212	10mm	-6.8	-291.1	-168.6				

**<Case 6>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	101.3	1.839	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.095	10mm	18.5	24	-207				

**<Case 7>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Back	1.256	10mm	2	-64.8	-207	90.3	1.627	0.02	Not required
WLAN Ant 3+4		0.371	10mm	18.5	24	-207				

**<Case 8>**

Hybrid SPLSR calculation for antenna (0+7) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+7	Back	1.37	10mm	-7	-74	-207	101.3	1.741	0.02	Not required
WLAN Ant 3+4		0.371	10mm	18.5	24	-207				

**<Case 9>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Back	0.512	10mm	2	-64.8	-207	90.3	1.607	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.095	10mm	18.5	24	-207				

**<Case 10>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Back	0.626	10mm	-57.9	-54.7	-207	109.7	1.721	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.095	10mm	18.5	24	-207				

**<Case 11>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Right Side	0.685	10mm	-25.6	46.5	-207	71.2	1.832	0.03	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.147	10mm	-21.6	-24.6	-207				

**<Case 12>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Right Side	0.815	10mm	-24.2	58	-207	82.6	1.962	0.03	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.147	10mm	-21.6	-24.6	-207				

**<Case 13>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	101.3	1.938	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.194	10mm	18.5	24	-207				

**<Case 14>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Front	1.287	10mm	-51.4	-77.2	-207	100.9	1.619	0.02	Not required
WLAN Ant 3+4		0.332	10mm	-63	23	-207				

**<Case 15>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Back	1.256	10mm	2	-64.8	-207	90.3	1.726	0.03	Not required
WLAN Ant 3+4		0.47	10mm	18.5	24	-207				

**<Case 16>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	101.3	1.686	0.02	Not required
WWAN Ant 5 + WLAN Ant 3+4		0.942	10mm	18.5	24	-207				

**<Case 17>**

Hybrid SPLSR calculation for antenna (0+7) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+7	Back	1.37	10mm	-7	-74	-207	101.3	1.840	0.02	Not required
WLAN Ant 3+4		0.47	10mm	18.5	24	-207				

**<Case 18>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Back	0.512	10mm	2	-64.8	-207	90.3	1.706	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.194	10mm	18.5	24	-207				

**<Case 19>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Back	0.626	10mm	-57.9	-54.7	-207	109.7	1.820	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.194	10mm	18.5	24	-207				

**<Case 20>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Right Side	0.685	10mm	-25.6	46.5	-207	71.2	1.934	0.04	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.249	10mm	-21.6	-24.6	-207				

**<Case 21>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Right Side	0.815	10mm	-24.2	58	-207	82.6	2.064	0.04	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.249	10mm	-21.6	-24.6	-207				

**<Case 22>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	99.8	1.913	0.03	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.169	10mm	18.5	22.5	-207				

**<Case 23>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Front	1.287	10mm	-51.4	-77.2	-207	100.9	1.609	0.02	Not required
WLAN Ant 3+4 + BT Ant 4		0.322	10mm	-63.5	23	-207				

**<Case 24>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Back	1.256	10mm	2	-64.8	-207	88.8	1.701	0.02	Not required
WLAN/BT Ant 3+4		0.445	10mm	18.5	22.5	-207				

**<Case 25>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	99.8	1.661	0.02	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		0.917	10mm	18.5	22.5	-207				

**<Case 26>**

Hybrid SPLSR calculation for antenna (0+7) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+7	Back	1.37	10mm	-7	-74	-207	99.8	1.815	0.02	Not required
WLAN/BT Ant 3+4		0.445	10mm	18.5	22.5	-207				

**<Case 27>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Back	0.512	10mm	2	-64.8	-207	88.8	1.681	0.02	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.169	10mm	18.5	22.5	-207				



<Case 28>

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Back	0.626	10mm	-57.9	-54.7	-207	108.6	1.795	0.02	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.169	10mm	18.5	22.5	-207				

<Case 29>

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Right Side	0.685	10mm	-25.6	46.5	-207	71.2	1.934	0.04	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		1.249	10mm	-21.6	-24.6	-207				

<Case 30>

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Right Side	0.815	10mm	-24.2	58	-207	82.6	2.064	0.04	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		1.249	10mm	-21.6	-24.6	-207				

<Case 31>

SAR summation (blue colored) for each band of antenna 0, 2

Exposure Position	0	1	2	3	4	5	6	7	8	9	10	11	13	14	15
	WWAN SAR	GSM1900_Ant 2	WCDMA II_Ant 2	WCDMA IV_Ant 2	LTE Band 7_Ant 2	LTE Band 25_Ant 2	LTE Band 30_Ant 2	LTE Band 41_Ant 2	LTE Band 66_Ant 2	FR1 n7_Ant 2	FR1 n25_Ant 2	FR1 n30_Ant 2	FR1 n41_Ant 2	FR1 n66_Ant 2	FR1 n70_Ant 2
Front	1g SAR (W/kg)	0.316	0.403	0.266	0.518	0.437	0.466	0.496	0.328	0.757	0.508	0.563	0.624	0.427	0.504
	0+1 Summed SAR	0.782	1.098	1.185	1.048	1.300	1.219	1.248	1.278	1.539	1.290	1.345	1.406	1.209	1.286
	0+2 Summed SAR	0.629	0.945	1.032	0.895	1.147	1.066	1.095	1.125	1.386	1.137	1.192	1.253	1.056	1.133
	0+3 Summed SAR	0.946	1.262	1.349	1.212	1.464	1.383	1.412	1.442	1.703	1.454	1.509	1.570	1.373	1.450
	0+4 Summed SAR	0.701	1.017	1.104	0.967	1.219	1.138	1.167	1.197	1.458	1.209	1.264	1.325	1.128	1.205
	0+5 Summed SAR	0.551	0.867	0.954	0.817	1.069	0.988	1.017	1.047	1.308	1.059	1.114	1.175	0.978	1.055
	0+6 Summed SAR	0.924	1.240	1.327	1.190	1.442	1.361	1.390	1.420	1.681	1.432	1.487	1.548	1.351	1.428
	0+7 Summed SAR	0.287	0.603	0.690	0.553	0.805	0.724	0.753	0.783	1.044	0.795	0.850	0.911	0.714	0.791
	0+8 Summed SAR	0.393	0.709	0.796	0.659	0.911	0.830	0.859	0.889	1.150	0.901	0.956	1.017	0.820	0.897
	0+9 Summed SAR	0.372	0.688	0.775	0.638	0.890	0.809	0.838	0.868	1.129	0.880	0.935	0.996	0.799	0.876
	0+10 Summed SAR	0.698	1.014	1.101	0.964	1.216	1.135	1.164	1.194	1.455	1.206	1.261	1.322	1.125	1.202
	0+11 Summed SAR	0.625	0.941	1.028	0.891	1.143	1.062	1.091	1.121	1.382	1.133	1.188	1.249	1.052	1.129
	0+12 Summed SAR	0.932	1.248	1.335	1.198	1.450	1.369	1.398	1.428	1.689	1.440	1.495	1.556	1.359	1.436
	0+13 Summed SAR	0.656	0.972	1.059	0.922	1.174	1.093	1.122	1.152	1.413	1.164	1.219	1.280	1.083	1.160
	0+14 Summed SAR	0.698	1.014	1.101	0.964	1.216	1.135	1.164	1.194	1.455	1.206	1.261	1.322	1.125	1.202
	0+15 Summed SAR	0.345	0.661	0.748	0.611	0.863	0.782	0.811	0.841	1.102	0.853	0.908	0.969	0.772	0.849
FR1 n7_Ant 0		0.960	1.276	1.363	1.226	1.478	1.397	1.426	1.456	1.717	1.468	1.523	1.584	1.387	1.464
FR1 n12_Ant 0		0.323	0.639	0.726	0.589	0.841	0.760	0.789	0.819	1.080	0.831	0.886	0.947	0.750	0.827
FR1 n25_Ant 0		0.685	1.001	1.088	0.951	1.203	1.122	1.151	1.181	1.442	1.193	1.248	1.309	1.112	1.189
FR1 n26_Ant 0		0.522	0.838	0.925	0.788	1.040	0.959	0.988	1.018	1.279	1.030	1.085	1.146	0.949	1.026
FR1 n30_Ant 0		0.705	1.021	1.108	0.971	1.223	1.142	1.171	1.201	1.462	1.213	1.268	1.329	1.132	1.209
FR1 n41_Ant 0		0.978	1.294	1.381	1.244	1.496	1.415	1.444	1.474	1.735	1.486	1.541	1.602	1.405	1.482
FR1 n66_Ant 0		0.755	1.071	1.158	1.021	1.273	1.192	1.221	1.251	1.512	1.263	1.318	1.379	1.182	1.259
FR1 n70_Ant 0		0.585	0.901	0.988	0.851	1.103	1.022	1.051	1.081	1.342	1.093	1.148	1.209	1.012	1.089
FR1 n71_Ant 0		0.271	0.587	0.674	0.537	0.789	0.708	0.737	0.767	1.028	0.779	0.834	0.895	0.698	0.775

SPLSR calculation for above summation SAR>1.6W/kg

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			Minimum 3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
FR1 n41_Ant 0	Front	0.978	10mm	-44	-80	-207	61.2	1.735	0.04	Not required
FR1 n7_Ant 2		0.757	10mm	16	-68	-207				

<Case 32>

SPLSR calculation for antenna (0,1),(0,5),(0,7)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
SAR Ant 0	Back	0.981	10mm	-14.5	-84	-207	139.4	1.832	0.02	Not required
SAR Ant 1		0.851	10mm	5	68.7	-207				
SAR Ant 0	Back	0.981	10mm	-9	-75	-207	120.3	1.668	0.02	Not required
SAR Ant 5		0.687	10mm	-63	32.5	-207				
SAR Ant 0	Back	0.981	10mm	-22.3	-83.4	-207	46	1.621	0.04	Not required
SAR Ant 7		0.64	10mm	-60	-57	-207				

**<Case 33>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	102.5	1.961	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.126	10mm	18.5	24	-207				

**<Case 34>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Front	1.528	10mm	-52	-77	-207	101.3	1.800	0.02	Not required
WLAN Ant 3+4		0.272	10mm	-65	23.5	-207				

**<Case 35>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Back	1.347	10mm	-8	-75	-207	102.5	1.749	0.02	Not required
WLAN Ant 3+4		0.402	10mm	18.5	24	-207				

**<Case 36>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	102.5	1.822	0.02	Not required
WWAN Ant 5 + WLAN Ant 3+4		0.987	10mm	18.5	24	-207				

**<Case 37>**

Hybrid SPLSR calculation for antenna (0+7) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+7	Back	1.461	10mm	-8	-75	-207	102.5	1.863	0.02	Not required
WLAN Ant 3+4		0.402	10mm	18.5	24	-207				

**<Case 38>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Back	0.512	10mm	-45	-64	-207	108.5	1.638	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.126	10mm	18.5	24	-207				

**<Case 39>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	112.4	1.752	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.126	10mm	18.5	24	-207				

**<Case 40>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	87.2	1.613	0.02	Not required
WWAN Ant 5 + WLAN Ant 3+4		0.987	10mm	-67.9	30.9	-207				

**<Case 41>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	102.5	2.057	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.222	10mm	18.5	24	-207				

**<Case 42>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Front	1.528	10mm	-52	-77	-207	100.6	1.872	0.03	Not required
WLAN Ant 3+4		0.344	10mm	-63	23	-207				

**<Case 43>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Back	1.347	10mm	-8	-75	-207	102.5	1.845	0.02	Not required
WLAN Ant 3+4		0.498	10mm	18.5	24	-207				

**<Case 44>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	102.5	1.918	0.03	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.083	10mm	18.5	24	-207				

**<Case 45>**

Hybrid SPLSR calculation for antenna (0+7) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+7	Front	1.293	10mm	-52	-77	-207	100.6	1.637	0.02	Not required
WLAN Ant 3+4		0.344	10mm	-63	23	-207				

**<Case 46>**

Hybrid SPLSR calculation for antenna (0+7) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+7	Back	1.461	10mm	-8	-75	-207	102.5	1.959	0.03	Not required
WLAN Ant 3+4		0.498	10mm	18.5	24	-207				

**<Case 47>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Back	0.512	10mm	-45	-64	-207	108.5	1.734	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.222	10mm	18.5	24	-207				

**<Case 48>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	112.4	1.848	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.222	10mm	18.5	24	-207				

**<Case 49>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Back	0.512	10mm	-48	-64	-207	97.0	1.595	0.02	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.083	10mm	-67.9	30.9	-207				

**<Case 50>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	87.2	1.709	0.03	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.083	10mm	-67.9	30.9	-207				



**<Case 51>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	101.0	2.024	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4 + BT Ant 3		1.189	10mm	18.5	22.5	-207				

**<Case 52>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Front	1.528	10mm	-52	-77	-207	100.7	1.871	0.03	Not required
WLAN Ant 3+4 + BT Ant 4		0.343	10mm	-63.5	23	-207				

**<Case 53>**

Hybrid SPLSR calculation for antenna (0+2) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+2	Back	1.347	10mm	-8	-75	-207	101.0	1.812	0.02	Not required
WLAN Ant 3+4 + BT Ant 3		0.465	10mm	18.5	22.5	-207				

**<Case 54>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 0

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	101.0	1.885	0.03	Not required
WWAN Ant 5 + WLAN Ant 3+4 + BT Ant 3		1.05	10mm	18.5	22.5	-207				

**<Case 55>**

Hybrid SPLSR calculation for antenna (0+7) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+7	Front	1.293	10mm	-52	-77	-207	100.7	1.636	0.02	Not required
WLAN Ant 3+4 + BT Ant 4		0.343	10mm	-63.5	23	-207				

**<Case 56>**

Hybrid SPLSR calculation for antenna (0+7) and antenna (3+4)

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 0+7	Back	1.461	10mm	-8	-75	-207	101.0	1.926	0.03	Not required
WLAN Ant 3+4 + BT Ant 3		0.465	10mm	18.5	22.5	-207				

**<Case 57>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 2

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 2	Back	0.512	10mm	-45	-64	-207	107.3	1.701	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4 + BT Ant 3		1.189	10mm	18.5	22.5	-207				

**<Case 58>**

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	111.4	1.815	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4 + BT Ant 3		1.189	10mm	18.5	22.5	-207				

**<Case 59>**

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 7

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	87.2	1.676	0.02	Not required
WWAN Ant 5 + WLAN Ant 3+4 + BT Ant 3		1.05	10mm	-67.9	30.9	-207				