

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 (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 6 (RSDB)	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 /	Bluetooth (Ant4) / Bluetooth (Ant4) + NFC	Index 2		
		Bluetooth (Ant3) / Bluetooth (Ant3) + NFC			
		Bluetooth (Ant4+3) / Bluetooth (Ant4+3) + NFC			
	BT + 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 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:

1. Max Power condition use case were evaluated in the appendix G.
2. This device only WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
3. 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.
4. The SAR summation is calculated based on the same exposure configuration and test position from each transmit antenna worst case reported SAR results.
5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - iv) 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 5G NR 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 5G NR EN-DC, the power ratio factors are g_1 and g_2 for LTE and NR respectively. The main purpose of these power ratio factors is to split the available SAR budget among different RATs, so $g_1 + g_2 \leq 1$. The value of g_1 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 g_2 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.

$$g_1 * LTE_{exposure} + g_2 * NR_{exposure} \leq 1.0,$$

$$\text{then, } g_1 * LTE_{exposure} + g_2 * NR_{exposure} \leq \max (LTE_{exposure} , NR_{exposure})$$

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+5G NR+WiFi+BT can be justified from the compliance of LTE+WiFi +BT and 5G NR+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 P_{limit} (or P_{max} when $P_{limit} > P_{max}$) 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	0.307	0.985	0.316	0.823	0.053	0.068	0.041	0.876	0.891	0.864
Right Tilted	0.383	0.137	0.399	0.526	0.062	0.016	0.063	0.588	0.542	0.589
Left Cheek	0.798	0.502	0.896	1.053	0.155	0.143	0.139	1.208	1.196	1.192
Left Tilted	1.118	0.071	1.032	0.854	0.192	0.008	0.208	1.046	0.862	1.062

<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	0.244	0.357	0.195	0.691	0.935	1.048	0.886
Right Tilted	0.155	0.107	0.311	0.385	0.540	0.492	0.696
Left Cheek	0.700	0.634	0.656	0.784	1.484	1.418	1.440
Left Tilted	0.769	0.051	0.720	0.605	1.374	0.656	1.325

<WWAN Index2>

Exposure Position	Maximum WWAN_Ant 0	Maximum WWAN_Ant 1	Maximum WWAN_Ant 2	Maximum WWAN_Ant 5	Maximum WWAN_Ant 6	Maximum WWAN_Ant 7	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	SPLSR Case no.
	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)	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)	
Right Cheek	0.374	0.994	0.835	0.385	0.273	0.594	1.368	1.209	0.759	0.968	1.829	1.267	1.588	1.220	1.108	0.658	0.979	0.867	0.03	Case 1
Right Tilted	0.206	0.997	0.413	0.176	0.151	0.086	1.203	0.619	0.382	0.292	1.410	1.148	1.083	0.589	0.564	0.327	0.262	0.237		
Left Cheek	0.500	0.701	0.426	0.707	0.296	0.246	1.201	0.926	1.207	0.746	1.127	0.997	0.947	1.133	0.722	1.003	0.953	0.542		
Left Tilted	0.196	0.598	0.490	0.408	0.107	0.170	0.794	0.686	0.604	0.366	1.088	0.705	0.768	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	0.846	0.098	0.283	0.073	0.306	0.053	0.068	0.041	1.263	1.448	1.238	1.471	1.524	1.539	1.512		
	Right Tilted	0.175	0.849	0.100	0.085	0.122	0.154	0.062	0.016	0.063	1.124	1.109	1.146	1.178	1.240	1.194	1.241		
	Left Cheek	0.425	0.596	0.267	0.504	0.248	0.300	0.155	0.143	0.139	1.288	1.525	1.269	1.321	1.476	1.464	1.460		
	Left Tilted	0.167	0.509	0.305	0.040	0.309	0.267	0.192	0.008	0.208	0.981	0.716	0.985	0.943	1.135	0.951	1.151		
Ant 0+2	Right Cheek	0.319	0.835	0.098	0.283	0.073	0.306	0.053	0.068	0.041	1.252	1.437	1.227	1.460	1.513	1.528	1.501		
	Right Tilted	0.175	0.413	0.100	0.085	0.122	0.154	0.062	0.016	0.063	0.688	0.673	0.710	0.742	0.804	0.758	0.805		
	Left Cheek	0.425	0.426	0.267	0.504	0.248	0.300	0.155	0.143	0.139	1.118	1.355	1.099	1.151	1.306	1.294	1.290		
	Left Tilted	0.167	0.490	0.305	0.040	0.309	0.267	0.192	0.008	0.208	0.962	0.697	0.966	0.924	1.116	0.932	1.132		
Ant 0+5	Right Cheek	0.319	0.328	0.098	0.283	0.073	0.306	0.053	0.068	0.041	0.745	0.930	0.720	0.953	1.006	1.021	0.994		
	Right Tilted	0.175	0.150	0.100	0.085	0.122	0.154	0.062	0.016	0.063	0.425	0.410	0.447	0.479	0.541	0.495	0.542		
	Left Cheek	0.425	0.601	0.267	0.504	0.248	0.300	0.155	0.143	0.139	1.293	1.530	1.274	1.326	1.481	1.469	1.465		
	Left Tilted	0.167	0.347	0.305	0.040	0.309	0.267	0.192	0.008	0.208	0.819	0.554	0.823	0.781	0.973	0.789	0.989		
Ant 0+7	Right Cheek	0.319	0.594	0.098	0.283	0.073	0.306	0.053	0.068	0.041	1.011	1.196	0.986	1.219	1.272	1.287	1.260		
	Right Tilted	0.175	0.086	0.100	0.085	0.122	0.154	0.062	0.016	0.063	0.361	0.346	0.383	0.415	0.477	0.431	0.478		
	Left Cheek	0.425	0.246	0.267	0.504	0.248	0.300	0.155	0.143	0.139	0.938	1.175	0.919	0.971	1.126	1.114	1.110		
	Left Tilted	0.167	0.170	0.305	0.040	0.309	0.267	0.192	0.008	0.208	0.642	0.377	0.646	0.604	0.796	0.612	0.812		
Ant 1+2	Right Cheek	0.846	0.835	0.098	0.283	0.073	0.306	0.053	0.068	0.041	1.779	1.964	1.754	1.987	2.040	2.055	2.028	0.04	Case 2
	Right Tilted	0.849	0.413	0.100	0.085	0.122	0.154	0.062	0.016	0.063	1.362	1.347	1.384	1.416	1.478	1.432	1.479		
	Left Cheek	0.596	0.426	0.267	0.504	0.248	0.300	0.155	0.143	0.139	1.289	1.526	1.270	1.322	1.477	1.465	1.461		
	Left Tilted	0.509	0.490	0.305	0.040	0.309	0.267	0.192	0.008	0.208	1.304	1.039	1.308	1.266	1.458	1.274	1.474		
Ant 1+6	Right Cheek	0.846	0.273	0.098	0.283	0.073	0.306	0.053	0.068	0.041	1.217	1.402	1.192	1.425	1.478	1.493	1.466		
	Right Tilted	0.849	0.151	0.100	0.085	0.122	0.154	0.062	0.016	0.063	1.100	1.085	1.122	1.154	1.216	1.170	1.217		
	Left Cheek	0.596	0.296	0.267	0.504	0.248	0.300	0.155	0.143	0.139	1.159	1.396	1.140	1.192	1.347	1.335	1.331		
	Left Tilted	0.509	0.107	0.305	0.040	0.309	0.267	0.192	0.008	0.208	0.921	0.656	0.925	0.883	1.075	0.891	1.091		
Ant 1+7	Right Cheek	0.846	0.594	0.098	0.283	0.073	0.306	0.053	0.068	0.041	1.538	1.723	1.513	1.746	1.799	1.814	1.787	0.03	Case 3
	Right Tilted	0.849	0.086	0.100	0.085	0.122	0.154	0.062	0.016	0.063	1.035	1.020	1.057	1.089	1.151	1.105	1.152		
	Left Cheek	0.596	0.246	0.267	0.504	0.248	0.300	0.155	0.143	0.139	1.109	1.346	1.090	1.142	1.297	1.285	1.281		
	Left Tilted	0.509	0.170	0.305	0.040	0.309	0.267	0.192	0.008	0.208	0.984	0.719	0.988	0.946	1.138	0.954	1.154		
Ant 2+5	Right Cheek	0.835	0.328	0.098	0.283	0.073	0.306	0.053	0.068	0.041	1.261	1.446	1.236	1.469	1.522	1.537	1.510		
	Right Tilted	0.413	0.150	0.100	0.085	0.122	0.154	0.062	0.016	0.063	0.663	0.648	0.685	0.717	0.779	0.733	0.780		
	Left Cheek	0.426	0.601	0.267	0.504	0.248	0.300	0.155	0.143	0.139	1.294	1.531	1.275	1.327	1.482	1.470	1.466		
	Left Tilted	0.490	0.347	0.305	0.040	0.309	0.267	0.192	0.008	0.208	1.142	0.877	1.146	1.104	1.296	1.112	1.312		
Ant 2+6	Right Cheek	0.835	0.273	0.098	0.283	0.073	0.306	0.053	0.068	0.041	1.206	1.391	1.181	1.414	1.467	1.482	1.455		
	Right Tilted	0.413	0.151	0.100	0.085	0.122	0.154	0.062	0.016	0.063	0.664	0.649	0.686	0.718	0.780	0.734	0.781		
	Left Cheek	0.426	0.296	0.267	0.504	0.248	0.300	0.155	0.143	0.139	0.989	1.226	0.970	1.022	1.177	1.165	1.161		
	Left Tilted	0.490	0.107	0.305	0.040	0.309	0.267	0.192	0.008	0.208	0.902	0.637	0.906	0.864	1.056	0.872	1.072		
Ant 5+6	Right Cheek	0.328	0.273	0.098	0.283	0.073	0.306	0.053	0.068	0.041	0.699	0.884	0.674	0.907	0.960	0.975	0.948		
	Right Tilted	0.150	0.151	0.100	0.085	0.122	0.154	0.062	0.016	0.063	0.401	0.386	0.423	0.455	0.517	0.471	0.518		
	Left Cheek	0.601	0.296	0.267	0.504	0.248	0.300	0.155	0.143	0.139	1.164	1.401	1.145	1.197	1.352	1.340	1.336		
	Left Tilted	0.347	0.107	0.305	0.040	0.309	0.267	0.192	0.008	0.208	0.759	0.494	0.763	0.721	0.913	0.729	0.929		
Ant 5+7	Right Cheek	0.328	0.594	0.098	0.283	0.073	0.306	0.053	0.068	0.041	1.020	1.205	0.995	1.228	1.281	1.296	1.269		
	Right Tilted	0.150	0.086	0.100	0.085	0.122	0.154	0.062	0.016	0.063	0.336	0.321	0.358	0.390	0.452	0.406	0.453		
	Left Cheek	0.601	0.246	0.267	0.504	0.248	0.300	0.155	0.143	0.139	1.114	1.351	1.095	1.147	1.302	1.290	1.286		
	Left Tilted	0.347	0.170	0.305	0.040	0.309	0.267	0.192	0.008	0.208	0.822	0.557	0.826	0.784	0.976	0.792	0.992		
Ant 6+7	Right Cheek	0.273	0.594	0.098	0.283	0.073	0.306	0.053	0.068	0.041	0.965	1.150	0.940	1.173	1.226	1.241	1.214		
	Right Tilted	0.151	0.086	0.100	0.085	0.122	0.154	0.062	0.016	0.063	0.337	0.322	0.359	0.391	0.453	0.407	0.454		
	Left Cheek	0.296	0.246	0.267	0.504	0.248	0.300	0.155	0.143	0.139	0.809	1.046	0.790	0.842	0.997	0.985	0.981		
	Left Tilted	0.107	0.170	0.305	0.040	0.309	0.267	0.192	0.008	0.208	0.582	0.317	0.586	0.544	0.736	0.552	0.752		



<WWAN Index3, WLAN Index4>

WWAN Antenna	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	0.846	0.098	0.117	0.073	0.306	1.569	1.588	1.544		
	Right Tilted	0.175	0.849	0.100	0.033	0.122	0.154	1.278	1.211	1.300		
	Left Cheek	0.425	0.596	0.267	0.236	0.248	0.300	1.588	1.557	1.569		
	Left Tilted	0.167	0.509	0.305	0.016	0.309	0.267	1.248	0.959	1.252		
Ant 0+2	Right Cheek	0.319	0.835	0.098	0.117	0.073	0.306	1.558	1.577	1.533		
	Right Tilted	0.175	0.413	0.100	0.033	0.122	0.154	0.842	0.775	0.864		
	Left Cheek	0.425	0.426	0.267	0.236	0.248	0.300	1.418	1.387	1.399		
	Left Tilted	0.167	0.490	0.305	0.016	0.309	0.267	1.229	0.940	1.233		
Ant 0+5	Right Cheek	0.319	0.328	0.098	0.117	0.073	0.306	1.051	1.070	1.026		
	Right Tilted	0.175	0.150	0.100	0.033	0.122	0.154	0.579	0.512	0.601		
	Left Cheek	0.425	0.601	0.267	0.236	0.248	0.300	1.593	1.562	1.574		
	Left Tilted	0.167	0.347	0.305	0.016	0.309	0.267	1.086	0.797	1.090		
Ant 0+7	Right Cheek	0.319	0.594	0.098	0.117	0.073	0.306	1.317	1.336	1.292		
	Right Tilted	0.175	0.086	0.100	0.033	0.122	0.154	0.515	0.448	0.537		
	Left Cheek	0.425	0.246	0.267	0.236	0.248	0.300	1.238	1.207	1.219		
	Left Tilted	0.167	0.170	0.305	0.016	0.309	0.267	0.909	0.620	0.913		
Ant 1+2	Right Cheek	0.846	0.835	0.098	0.117	0.073	0.306	2.085	2.104	2.060	0.04	Case 4
	Right Tilted	0.849	0.413	0.100	0.033	0.122	0.154	1.516	1.449	1.538		
	Left Cheek	0.596	0.426	0.267	0.236	0.248	0.300	1.589	1.558	1.570		
	Left Tilted	0.509	0.490	0.305	0.016	0.309	0.267	1.571	1.282	1.575		
Ant 1+6	Right Cheek	0.846	0.273	0.098	0.117	0.073	0.306	1.523	1.542	1.498		
	Right Tilted	0.849	0.151	0.100	0.033	0.122	0.154	1.254	1.187	1.276		
	Left Cheek	0.596	0.296	0.267	0.236	0.248	0.300	1.459	1.428	1.440		
	Left Tilted	0.509	0.107	0.305	0.016	0.309	0.267	1.188	0.899	1.192		
Ant 1+7	Right Cheek	0.846	0.594	0.098	0.117	0.073	0.306	1.844	1.863	1.819	0.03	Case 5
	Right Tilted	0.849	0.086	0.100	0.033	0.122	0.154	1.189	1.122	1.211		
	Left Cheek	0.596	0.246	0.267	0.236	0.248	0.300	1.409	1.378	1.390		
	Left Tilted	0.509	0.170	0.305	0.016	0.309	0.267	1.251	0.962	1.255		
Ant 2+5	Right Cheek	0.835	0.328	0.098	0.117	0.073	0.306	1.567	1.586	1.542		
	Right Tilted	0.413	0.150	0.100	0.033	0.122	0.154	0.817	0.750	0.839		
	Left Cheek	0.426	0.601	0.267	0.236	0.248	0.300	1.594	1.563	1.575		
	Left Tilted	0.490	0.347	0.305	0.016	0.309	0.267	1.409	1.120	1.413		
Ant 2+6	Right Cheek	0.835	0.273	0.098	0.117	0.073	0.306	1.512	1.531	1.487		
	Right Tilted	0.413	0.151	0.100	0.033	0.122	0.154	0.818	0.751	0.840		
	Left Cheek	0.426	0.296	0.267	0.236	0.248	0.300	1.289	1.258	1.270		
	Left Tilted	0.490	0.107	0.305	0.016	0.309	0.267	1.169	0.880	1.173		
Ant 5+6	Right Cheek	0.328	0.273	0.098	0.117	0.073	0.306	1.005	1.024	0.980		
	Right Tilted	0.150	0.151	0.100	0.033	0.122	0.154	0.555	0.488	0.577		
	Left Cheek	0.601	0.296	0.267	0.236	0.248	0.300	1.464	1.433	1.445		
	Left Tilted	0.347	0.107	0.305	0.016	0.309	0.267	1.026	0.737	1.030		
Ant 5+7	Right Cheek	0.328	0.594	0.098	0.117	0.073	0.306	1.326	1.345	1.301		
	Right Tilted	0.150	0.086	0.100	0.033	0.122	0.154	0.490	0.423	0.512		
	Left Cheek	0.601	0.246	0.267	0.236	0.248	0.300	1.414	1.383	1.395		
	Left Tilted	0.347	0.170	0.305	0.016	0.309	0.267	1.089	0.800	1.093		
Ant 6+7	Right Cheek	0.273	0.594	0.098	0.117	0.073	0.306	1.271	1.290	1.246		
	Right Tilted	0.151	0.086	0.100	0.033	0.122	0.154	0.491	0.424	0.513		
	Left Cheek	0.296	0.246	0.267	0.236	0.248	0.300	1.109	1.078	1.090		
	Left Tilted	0.107	0.170	0.305	0.016	0.309	0.267	0.849	0.560	0.853		



F.4 Hotspot Sim-Tx analysis

<WWAN Index4, WLAN Index7>

WWAN Antenna	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	0.448	0.308	0.362	0.391	0.187	1.399	1.453	1.482	1.278		
	Back at 10mm	0.744	0.842	0.313	0.458	0.436	0.606	1.899	2.044	2.022	2.192	0.03	Case 6
	Left side at 10mm	0.629	0.318	0.001	0.634	0.274	0.357	0.948	1.581	1.221	1.304		
	Right side at 10mm	0.231	0.274	0.364	0.001	0.431	0.264	0.869	0.506	0.936	0.769		
	Top side at 10mm		0.842	0.537	0.049	0.604	0.275	1.379	0.891	1.446	1.117		
	Bottom side at 10mm	0.848						0.848	0.848	0.848	0.848		
Ant 0+2	Front at 10mm	0.643	0.644	0.308	0.362	0.391	0.187	1.594	1.649	1.678	1.474	0.02	Case 7
	Back at 10mm	0.744	0.512	0.313	0.458	0.436	0.606	1.569	1.714	1.692	1.862	0.03	Case 8
	Left side at 10mm	0.629	0.113	0.001	0.634	0.274	0.357	0.743	1.376	1.016	1.099		
	Right side at 10mm	0.231	0.685	0.364	0.001	0.431	0.264	1.280	0.917	1.347	1.180		
	Top side at 10mm			0.537	0.049	0.604	0.275	0.537	0.049	0.604	0.275		
	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	0.308	0.362	0.391	0.187	1.295	1.349	1.378	1.174		
	Back at 10mm	0.744	0.472	0.313	0.458	0.436	0.606	1.529	1.674	1.652	1.822	0.02	Case 9
	Left side at 10mm	0.629	0.042	0.001	0.634	0.274	0.357	0.672	1.305	0.945	1.028		
	Right side at 10mm	0.231	0.840	0.364	0.001	0.431	0.264	1.435	1.072	1.502	1.335		
	Top side at 10mm		0.086	0.537	0.049	0.604	0.275	0.623	0.135	0.690	0.361		
	Bottom side at 10mm	0.848						0.848	0.848	0.848	0.848		
Ant 0+7	Front at 10mm	0.643	0.461	0.308	0.362	0.391	0.187	1.412	1.466	1.495	1.291		
	Back at 10mm	0.744	0.626	0.313	0.458	0.436	0.606	1.683	1.828	1.806	1.976	0.03	Case 10
	Left side at 10mm	0.629	0.021	0.001	0.634	0.274	0.357	0.651	1.284	0.924	1.007		
	Right side at 10mm	0.231	0.815	0.364	0.001	0.431	0.264	1.410	1.047	1.477	1.310		
	Top side at 10mm			0.537	0.049	0.604	0.275	0.537	0.049	0.604	0.275		
	Bottom side at 10mm	0.848	0.149					0.997	0.997	0.997	0.997		
Ant 1+2	Front at 10mm	0.448	0.644	0.308	0.362	0.391	0.187	1.400	1.454	1.483	1.279		
	Back at 10mm	0.842	0.512	0.313	0.458	0.436	0.606	1.667	1.812	1.790	1.960	0.03	Case 11
	Left side at 10mm	0.318	0.113	0.001	0.634	0.274	0.357	0.432	1.065	0.705	0.788		
	Right side at 10mm	0.274	0.685	0.364	0.001	0.431	0.264	1.323	0.960	1.390	1.223		
	Top side at 10mm	0.842		0.537	0.049	0.604	0.275	1.379	0.891	1.446	1.117		
	Bottom side at 10mm		0.383					0.383	0.383	0.383	0.383		
Ant 1+6	Front at 10mm	0.448	0.368	0.308	0.362	0.391	0.187	1.124	1.178	1.207	1.003		
	Back at 10mm	0.842	0.340	0.313	0.458	0.436	0.606	1.495	1.640	1.618	1.788	0.03	Case 12
	Left side at 10mm	0.318	0.508	0.001	0.634	0.274	0.357	0.827	1.460	1.100	1.183		
	Right side at 10mm	0.274	0.041	0.364	0.001	0.431	0.264	0.679	0.316	0.746	0.579		
	Top side at 10mm	0.842		0.537	0.049	0.604	0.275	1.379	0.891	1.446	1.117		
	Bottom side at 10mm		0.395					0.395	0.395	0.395	0.395		
Ant 1+7	Front at 10mm	0.448	0.461	0.308	0.362	0.391	0.187	1.217	1.271	1.300	1.096		
	Back at 10mm	0.842	0.626	0.313	0.458	0.436	0.606	1.781	1.926	1.904	2.074	0.03	Case 13
	Left side at 10mm	0.318	0.021	0.001	0.634	0.274	0.357	0.340	0.973	0.613	0.696		
	Right side at 10mm	0.274	0.815	0.364	0.001	0.431	0.264	1.453	1.090	1.520	1.353		
	Top side at 10mm	0.842		0.537	0.049	0.604	0.275	1.379	0.891	1.446	1.117		
	Bottom side at 10mm		0.149					0.149	0.149	0.149	0.149		
Ant 2+5	Front at 10mm	0.644	0.344	0.308	0.362	0.391	0.187	1.296	1.350	1.379	1.175		
	Back at 10mm	0.512	0.472	0.313	0.458	0.436	0.606	1.297	1.442	1.420	1.590		
	Left side at 10mm	0.113	0.042	0.001	0.634	0.274	0.357	0.156	0.789	0.429	0.512		
	Right side at 10mm	0.685	0.840	0.364	0.001	0.431	0.264	1.889	1.526	1.956	1.789	0.04	Case 14
	Top side at 10mm		0.086	0.537	0.049	0.604	0.275	0.623	0.135	0.690	0.361		



	Bottom side at 10mm	0.383						0.383	0.383	0.383	0.383		
Ant 2+6	Front at 10mm	0.644	0.368	0.308	0.362	0.391	0.187	1.320	1.374	1.403	1.199		
	Back at 10mm	0.512	0.340	0.313	0.458	0.436	0.606	1.165	1.310	1.288	1.458		
	Left side at 10mm	0.113	0.508	0.001	0.634	0.274	0.357	0.622	1.255	0.895	0.978		
	Right side at 10mm	0.685	0.041	0.364	0.001	0.431	0.264	1.090	0.727	1.157	0.990		
	Top side at 10mm			0.537	0.049	0.604	0.275	0.537	0.049	0.604	0.275		
	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	0.308	0.362	0.391	0.187	1.020	1.074	1.103	0.899		
	Back at 10mm	0.472	0.340	0.313	0.458	0.436	0.606	1.125	1.270	1.248	1.418		
	Left side at 10mm	0.042	0.508	0.001	0.634	0.274	0.357	0.551	1.184	0.824	0.907		
	Right side at 10mm	0.840	0.041	0.364	0.001	0.431	0.264	1.245	0.882	1.312	1.145		
	Top side at 10mm	0.086		0.537	0.049	0.604	0.275	0.623	0.135	0.690	0.361		
	Bottom side at 10mm		0.395					0.395	0.395	0.395	0.395		
Ant 5+7	Front at 10mm	0.344	0.461	0.308	0.362	0.391	0.187	1.113	1.167	1.196	0.992		
	Back at 10mm	0.472	0.626	0.313	0.458	0.436	0.606	1.411	1.556	1.534	1.704	0.03	Case 15
	Left side at 10mm	0.042	0.021	0.001	0.634	0.274	0.357	0.064	0.697	0.337	0.420		
	Right side at 10mm	0.840	0.815	0.364	0.001	0.431	0.264	2.019	1.656	2.086	1.919	0.04	Case 16
	Top side at 10mm	0.086		0.537	0.049	0.604	0.275	0.623	0.135	0.690	0.361		
	Bottom side at 10mm		0.149					0.149	0.149	0.149	0.149		
Ant 6+7	Front at 10mm	0.368	0.461	0.308	0.362	0.391	0.187	1.137	1.191	1.220	1.016		
	Back at 10mm	0.340	0.626	0.313	0.458	0.436	0.606	1.279	1.424	1.402	1.572		
	Left side at 10mm	0.508	0.021	0.001	0.634	0.274	0.357	0.530	1.163	0.803	0.886		
	Right side at 10mm	0.041	0.815	0.364	0.001	0.431	0.264	1.220	0.857	1.287	1.120		
	Top side at 10mm			0.537	0.049	0.604	0.275	0.537	0.049	0.604	0.275		
	Bottom side at 10mm	0.395	0.149					0.544	0.544	0.544	0.544		

<WWAN Index4, WLAN Index8>

WWAN Antenna	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	0.448	0.176	0.139	0.105	0.181	1.448	1.411	1.377		
	Back at 10mm	0.744	0.842	0.214	0.178	0.158	0.391	2.191	2.155	2.135	0.03	Case 17
	Left side at 10mm	0.629	0.318	0.001	0.274	0.095	0.357	1.305	1.578	1.399		
	Right side at 10mm	0.231	0.274	0.218	0.001	0.144	0.215	0.938	0.721	0.864		
	Top side at 10mm		0.842	0.320	0.018	0.212	0.233	1.395	1.093	1.287		
	Bottom side at 10mm	0.848						0.848	0.848	0.848		
Ant 0+2	Front at 10mm	0.643	0.644	0.176	0.139	0.105	0.181	1.644	1.607	1.573	0.02	Case 18
	Back at 10mm	0.744	0.512	0.214	0.178	0.158	0.391	1.861	1.825	1.805	0.03	Case 19
	Left side at 10mm	0.629	0.113	0.001	0.274	0.095	0.357	1.100	1.373	1.194		
	Right side at 10mm	0.231	0.685	0.218	0.001	0.144	0.215	1.349	1.132	1.275		
	Top side at 10mm			0.320	0.018	0.212	0.233	0.553	0.251	0.445		
	Bottom side at 10mm	0.848	0.383					1.231	1.231	1.231		
Ant 0+5	Front at 10mm	0.643	0.344	0.176	0.139	0.105	0.181	1.344	1.307	1.273		
	Back at 10mm	0.744	0.472	0.214	0.178	0.158	0.391	1.821	1.785	1.765	0.02	Case 20
	Left side at 10mm	0.629	0.042	0.001	0.274	0.095	0.357	1.029	1.302	1.123		
	Right side at 10mm	0.231	0.840	0.218	0.001	0.144	0.215	1.504	1.287	1.430		
	Top side at 10mm		0.086	0.320	0.018	0.212	0.233	0.639	0.337	0.531		
	Bottom side at 10mm	0.848						0.848	0.848	0.848		
Ant 0+7	Front at 10mm	0.643	0.461	0.176	0.139	0.105	0.181	1.461	1.424	1.390		
	Back at 10mm	0.744	0.626	0.214	0.178	0.158	0.391	1.975	1.939	1.919	0.03	Case 21
	Left side at 10mm	0.629	0.021	0.001	0.274	0.095	0.357	1.008	1.281	1.102		
	Right side at 10mm	0.231	0.815	0.218	0.001	0.144	0.215	1.479	1.262	1.405		
	Top side at 10mm			0.320	0.018	0.212	0.233	0.553	0.251	0.445		



	Bottom side at 10mm	0.848	0.149					0.997	0.997	0.997		
Ant 1+2	Front at 10mm	0.448	0.644	0.176	0.139	0.105	0.181	1.449	1.412	1.378		
	Back at 10mm	0.842	0.512	0.214	0.178	0.158	0.391	1.959	1.923	1.903	0.03	Case 22
	Left side at 10mm	0.318	0.113	0.001	0.274	0.095	0.357	0.789	1.062	0.883		
	Right side at 10mm	0.274	0.685	0.218	0.001	0.144	0.215	1.392	1.175	1.318		
	Top side at 10mm	0.842		0.320	0.018	0.212	0.233	1.395	1.093	1.287		
	Bottom side at 10mm		0.383					0.383	0.383	0.383		
Ant 1+6	Front at 10mm	0.448	0.368	0.176	0.139	0.105	0.181	1.173	1.136	1.102		
	Back at 10mm	0.842	0.340	0.214	0.178	0.158	0.391	1.787	1.751	1.731	0.03	Case 23
	Left side at 10mm	0.318	0.508	0.001	0.274	0.095	0.357	1.184	1.457	1.278		
	Right side at 10mm	0.274	0.041	0.218	0.001	0.144	0.215	0.748	0.531	0.674		
	Top side at 10mm	0.842		0.320	0.018	0.212	0.233	1.395	1.093	1.287		
	Bottom side at 10mm		0.395					0.395	0.395	0.395		
Ant 1+7	Front at 10mm	0.448	0.461	0.176	0.139	0.105	0.181	1.266	1.229	1.195		
	Back at 10mm	0.842	0.626	0.214	0.178	0.158	0.391	2.073	2.037	2.017	0.03	Case 24
	Left side at 10mm	0.318	0.021	0.001	0.274	0.095	0.357	0.697	0.970	0.791		
	Right side at 10mm	0.274	0.815	0.218	0.001	0.144	0.215	1.522	1.305	1.448		
	Top side at 10mm	0.842		0.320	0.018	0.212	0.233	1.395	1.093	1.287		
	Bottom side at 10mm		0.149					0.149	0.149	0.149		
Ant 2+5	Front at 10mm	0.644	0.344	0.176	0.139	0.105	0.181	1.345	1.308	1.274		
	Back at 10mm	0.512	0.472	0.214	0.178	0.158	0.391	1.589	1.553	1.533		
	Left side at 10mm	0.113	0.042	0.001	0.274	0.095	0.357	0.513	0.786	0.607		
	Right side at 10mm	0.685	0.840	0.218	0.001	0.144	0.215	1.958	1.741	1.884	0.04	Case 25
	Top side at 10mm		0.086	0.320	0.018	0.212	0.233	0.639	0.337	0.531		
	Bottom side at 10mm	0.383						0.383	0.383	0.383		
Ant 2+6	Front at 10mm	0.644	0.368	0.176	0.139	0.105	0.181	1.369	1.332	1.298		
	Back at 10mm	0.512	0.340	0.214	0.178	0.158	0.391	1.457	1.421	1.401		
	Left side at 10mm	0.113	0.508	0.001	0.274	0.095	0.357	0.979	1.252	1.073		
	Right side at 10mm	0.685	0.041	0.218	0.001	0.144	0.215	1.159	0.942	1.085		
	Top side at 10mm			0.320	0.018	0.212	0.233	0.553	0.251	0.445		
	Bottom side at 10mm	0.383	0.395					0.778	0.778	0.778		
Ant 5+6	Front at 10mm	0.344	0.368	0.176	0.139	0.105	0.181	1.069	1.032	0.998		
	Back at 10mm	0.472	0.340	0.214	0.178	0.158	0.391	1.417	1.381	1.361		
	Left side at 10mm	0.042	0.508	0.001	0.274	0.095	0.357	0.908	1.181	1.002		
	Right side at 10mm	0.840	0.041	0.218	0.001	0.144	0.215	1.314	1.097	1.240		
	Top side at 10mm	0.086		0.320	0.018	0.212	0.233	0.639	0.337	0.531		
	Bottom side at 10mm		0.395					0.395	0.395	0.395		
Ant 5+7	Front at 10mm	0.344	0.461	0.176	0.139	0.105	0.181	1.162	1.125	1.091		
	Back at 10mm	0.472	0.626	0.214	0.178	0.158	0.391	1.703	1.667	1.647	0.03	Case 26
	Left side at 10mm	0.042	0.021	0.001	0.274	0.095	0.357	0.421	0.694	0.515		
	Right side at 10mm	0.840	0.815	0.218	0.001	0.144	0.215	2.088	1.871	2.014	0.04	Case 27
	Top side at 10mm	0.086		0.320	0.018	0.212	0.233	0.639	0.337	0.531		
	Bottom side at 10mm		0.149					0.149	0.149	0.149		
Ant 6+7	Front at 10mm	0.368	0.461	0.176	0.139	0.105	0.181	1.186	1.149	1.115		
	Back at 10mm	0.340	0.626	0.214	0.178	0.158	0.391	1.571	1.535	1.515		
	Left side at 10mm	0.508	0.021	0.001	0.274	0.095	0.357	0.887	1.160	0.981		
	Right side at 10mm	0.041	0.815	0.218	0.001	0.144	0.215	1.289	1.072	1.215		
	Top side at 10mm			0.320	0.018	0.212	0.233	0.553	0.251	0.445		
	Bottom side at 10mm	0.395	0.149					0.544	0.544	0.544		



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

WWAN Antenna	Exposure Position	0	1	10	11	12	13	0+1+10+11 Summed 1g SAR (W/kg)	0+1+10+12 Summed 1g SAR (W/kg)	0+1+10+13 Summed 1g SAR (W/kg)	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)					
Ant 0+1	Front at 10mm	0.643	0.448	0.181	0.169	0.119	0.167	1.441	1.391	1.439		
	Back at 10mm	0.744	0.842	0.391	0.232	0.141	0.179	2.209	2.118	2.156	0.03	Case 28
	Left side at 10mm	0.629	0.318	0.357	0.001	0.265	0.284	1.305	1.569	1.588		
	Right side at 10mm	0.231	0.274	0.215	0.251	0.001	0.277	0.971	0.721	0.997		
	Top side at 10mm		0.842	0.233	0.286	0.013	0.196	1.361	1.088	1.271		
	Bottom side at 10mm	0.848						0.848	0.848	0.848		
Ant 0+2	Front at 10mm	0.643	0.644	0.181	0.169	0.119	0.167	1.637	1.587	1.635	0.02	Case 29
	Back at 10mm	0.744	0.512	0.391	0.232	0.141	0.179	1.879	1.788	1.826	0.03	Case 30
	Left side at 10mm	0.629	0.113	0.357	0.001	0.265	0.284	1.100	1.364	1.383		
	Right side at 10mm	0.231	0.685	0.215	0.251	0.001	0.277	1.382	1.132	1.408		
	Top side at 10mm			0.233	0.286	0.013	0.196	0.519	0.246	0.429		
	Bottom side at 10mm	0.848	0.383					1.231	1.231	1.231		
Ant 0+5	Front at 10mm	0.643	0.344	0.181	0.169	0.119	0.167	1.337	1.287	1.335		
	Back at 10mm	0.744	0.472	0.391	0.232	0.141	0.179	1.839	1.748	1.786	0.02	Case 31
	Left side at 10mm	0.629	0.042	0.357	0.001	0.265	0.284	1.029	1.293	1.312		
	Right side at 10mm	0.231	0.840	0.215	0.251	0.001	0.277	1.537	1.287	1.563		
	Top side at 10mm		0.086	0.233	0.286	0.013	0.196	0.605	0.332	0.515		
	Bottom side at 10mm	0.848						0.848	0.848	0.848		
Ant 0+7	Front at 10mm	0.643	0.461	0.181	0.169	0.119	0.167	1.454	1.404	1.452		
	Back at 10mm	0.744	0.626	0.391	0.232	0.141	0.179	1.993	1.902	1.940	0.03	Case 32
	Left side at 10mm	0.629	0.021	0.357	0.001	0.265	0.284	1.008	1.272	1.291		
	Right side at 10mm	0.231	0.815	0.215	0.251	0.001	0.277	1.512	1.262	1.538		
	Top side at 10mm			0.233	0.286	0.013	0.196	0.519	0.246	0.429		
	Bottom side at 10mm	0.848	0.149					0.997	0.997	0.997		
Ant 1+2	Front at 10mm	0.448	0.644	0.181	0.169	0.119	0.167	1.442	1.392	1.440		
	Back at 10mm	0.842	0.512	0.391	0.232	0.141	0.179	1.977	1.886	1.924	0.03	Case 33
	Left side at 10mm	0.318	0.113	0.357	0.001	0.265	0.284	0.789	1.053	1.072		
	Right side at 10mm	0.274	0.685	0.215	0.251	0.001	0.277	1.425	1.175	1.451		
	Top side at 10mm	0.842		0.233	0.286	0.013	0.196	1.361	1.088	1.271		
	Bottom side at 10mm		0.383					0.383	0.383	0.383		
Ant 1+6	Front at 10mm	0.448	0.368	0.181	0.169	0.119	0.167	1.166	1.116	1.164		
	Back at 10mm	0.842	0.340	0.391	0.232	0.141	0.179	1.805	1.714	1.752	0.03	Case 34
	Left side at 10mm	0.318	0.508	0.357	0.001	0.265	0.284	1.184	1.448	1.467		
	Right side at 10mm	0.274	0.041	0.215	0.251	0.001	0.277	0.781	0.531	0.807		
	Top side at 10mm	0.842		0.233	0.286	0.013	0.196	1.361	1.088	1.271		
	Bottom side at 10mm		0.395					0.395	0.395	0.395		
Ant 1+7	Front at 10mm	0.448	0.461	0.181	0.169	0.119	0.167	1.259	1.209	1.257		
	Back at 10mm	0.842	0.626	0.391	0.232	0.141	0.179	2.091	2.000	2.038	0.03	Case 35
	Left side at 10mm	0.318	0.021	0.357	0.001	0.265	0.284	0.697	0.961	0.980		
	Right side at 10mm	0.274	0.815	0.215	0.251	0.001	0.277	1.555	1.305	1.581		
	Top side at 10mm	0.842		0.233	0.286	0.013	0.196	1.361	1.088	1.271		
	Bottom side at 10mm		0.149					0.149	0.149	0.149		
Ant 2+5	Front at 10mm	0.644	0.344	0.181	0.169	0.119	0.167	1.338	1.288	1.336		
	Back at 10mm	0.512	0.472	0.391	0.232	0.141	0.179	1.607	1.516	1.554	0.02	Case 36
	Left side at 10mm	0.113	0.042	0.357	0.001	0.265	0.284	0.513	0.777	0.796		
	Right side at 10mm	0.685	0.840	0.215	0.251	0.001	0.277	1.991	1.741	2.017	0.04	Case 37
	Top side at 10mm		0.086	0.233	0.286	0.013	0.196	0.605	0.332	0.515		
	Bottom side at 10mm	0.383						0.383	0.383	0.383		
Ant 2+6	Front at 10mm	0.644	0.368	0.181	0.169	0.119	0.167	1.362	1.312	1.360		



	Back at 10mm	0.512	0.340	0.391	0.232	0.141	0.179	1.475	1.384	1.422		
	Left side at 10mm	0.113	0.508	0.357	0.001	0.265	0.284	0.979	1.243	1.262		
	Right side at 10mm	0.685	0.041	0.215	0.251	0.001	0.277	1.192	0.942	1.218		
	Top side at 10mm			0.233	0.286	0.013	0.196	0.519	0.246	0.429		
	Bottom side at 10mm	0.383	0.395					0.778	0.778	0.778		
Ant 5+6	Front at 10mm	0.344	0.368	0.181	0.169	0.119	0.167	1.062	1.012	1.060		
	Back at 10mm	0.472	0.340	0.391	0.232	0.141	0.179	1.435	1.344	1.382		
	Left side at 10mm	0.042	0.508	0.357	0.001	0.265	0.284	0.908	1.172	1.191		
	Right side at 10mm	0.840	0.041	0.215	0.251	0.001	0.277	1.347	1.097	1.373		
	Top side at 10mm	0.086		0.233	0.286	0.013	0.196	0.605	0.332	0.515		
	Bottom side at 10mm		0.395					0.395	0.395	0.395		
Ant 5+7	Front at 10mm	0.344	0.461	0.181	0.169	0.119	0.167	1.155	1.105	1.153		
	Back at 10mm	0.472	0.626	0.391	0.232	0.141	0.179	1.721	1.630	1.668	0.03	Case 38
	Left side at 10mm	0.042	0.021	0.357	0.001	0.265	0.284	0.421	0.685	0.704		
	Right side at 10mm	0.840	0.815	0.215	0.251	0.001	0.277	2.121	1.871	2.147	0.04	Case 39
	Top side at 10mm	0.086		0.233	0.286	0.013	0.196	0.605	0.332	0.515		
	Bottom side at 10mm		0.149					0.149	0.149	0.149		
Ant 6+7	Front at 10mm	0.368	0.461	0.181	0.169	0.119	0.167	1.179	1.129	1.177		
	Back at 10mm	0.340	0.626	0.391	0.232	0.141	0.179	1.589	1.498	1.536		
	Left side at 10mm	0.508	0.021	0.357	0.001	0.265	0.284	0.887	1.151	1.170		
	Right side at 10mm	0.041	0.815	0.215	0.251	0.001	0.277	1.322	1.072	1.348		
	Top side at 10mm			0.233	0.286	0.013	0.196	0.519	0.246	0.429		
	Bottom side at 10mm	0.395	0.149					0.544	0.544	0.544		



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	0.835	0.362	0.735	0.399	0.169	0.119	0.167	0.568	0.518	0.566
Back	1.022	0.458	0.951	0.713	0.232	0.200	0.320	0.945	0.913	1.033

<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	0.308	0.362	0.391	0.399	0.707	0.761	0.790
Back	0.389	0.458	0.436	0.713	1.102	1.171	1.149

<WWAN Index5>

Exposure Position	Maximum WWAN_Ant 0	Maximum WWAN_Ant 1	Maximum WWAN_Ant 2	Maximum WWAN_Ant 5	Maximum WWAN_Ant 6	Maximum WWAN_Ant 7	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.
	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)	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)	
Front	0.978	0.480	0.818	0.474	0.432	0.461	1.458	1.796	1.452	1.439	1.298	0.912	0.941	1.292	1.250	0.906	0.935	0.893	0.04	Case 40
Back	0.981	0.989	0.602	0.687	0.399	0.640	1.970	1.583	1.668	1.621	1.591	1.388	1.629	1.289	1.001	1.086	1.327	1.039	0.04	Case 41



<WWAN Index6, WLAN Index7>

WWAN Antenna	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 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	0.832	0.448	0.308	0.362	0.391	0.399	1.588	1.642	1.671	1.679	0.02	Case 42
	Back at 10mm	0.835	0.842	0.389	0.458	0.436	0.713	2.066	2.135	2.113	2.390	0.03	Case 43
Ant 0+2	Front at 10mm	0.832	0.696	0.308	0.362	0.391	0.399	1.836	1.890	1.919	1.927	0.03	Case 44
	Back at 10mm	0.835	0.512	0.389	0.458	0.436	0.713	1.736	1.805	1.783	2.060	0.03	Case 45
Ant 0+5	Front at 10mm	0.832	0.404	0.308	0.362	0.391	0.399	1.544	1.598	1.627	1.635	0.02	Case 46
	Back at 10mm	0.835	0.585	0.389	0.458	0.436	0.713	1.809	1.878	1.856	2.133	0.03	Case 47
Ant 0+7	Front at 10mm	0.832	0.461	0.308	0.362	0.391	0.399	1.601	1.655	1.684	1.692	0.02	Case 48
	Back at 10mm	0.835	0.626	0.389	0.458	0.436	0.713	1.850	1.919	1.897	2.174	0.03	Case 49
Ant 1+2	Front at 10mm	0.448	0.696	0.308	0.362	0.391	0.399	1.452	1.506	1.535	1.543		
	Back at 10mm	0.842	0.512	0.389	0.458	0.436	0.713	1.743	1.812	1.790	2.067	0.03	Case 50
Ant 1+6	Front at 10mm	0.448	0.368	0.308	0.362	0.391	0.399	1.124	1.178	1.207	1.215		
	Back at 10mm	0.842	0.340	0.389	0.458	0.436	0.713	1.571	1.640	1.618	1.895	0.03	Case 51
Ant 1+7	Front at 10mm	0.448	0.461	0.308	0.362	0.391	0.399	1.217	1.271	1.300	1.308		
	Back at 10mm	0.842	0.626	0.389	0.458	0.436	0.713	1.857	1.926	1.904	2.181	0.03	Case 52
Ant 2+5	Front at 10mm	0.696	0.404	0.308	0.362	0.391	0.399	1.408	1.462	1.491	1.499		
	Back at 10mm	0.512	0.585	0.389	0.458	0.436	0.713	1.486	1.555	1.533	1.810	0.03	Case 53
Ant 2+6	Front at 10mm	0.696	0.368	0.308	0.362	0.391	0.399	1.372	1.426	1.455	1.463		
	Back at 10mm	0.512	0.340	0.389	0.458	0.436	0.713	1.241	1.310	1.288	1.565		
Ant 5+6	Front at 10mm	0.404	0.368	0.308	0.362	0.391	0.399	1.080	1.134	1.163	1.171		
	Back at 10mm	0.585	0.340	0.389	0.458	0.436	0.713	1.314	1.383	1.361	1.638	0.03	Case 54
Ant 5+7	Front at 10mm	0.404	0.461	0.308	0.362	0.391	0.399	1.173	1.227	1.256	1.264		
	Back at 10mm	0.585	0.626	0.389	0.458	0.436	0.713	1.600	1.669	1.647	1.924	0.03	Case 55
Ant 6+7	Front at 10mm	0.368	0.461	0.308	0.362	0.391	0.399	1.137	1.191	1.220	1.228		
	Back at 10mm	0.340	0.626	0.389	0.458	0.436	0.713	1.355	1.424	1.402	1.679	0.03	Case 56



<WWAN Index6, WLAN Index8>

WWAN Antenna	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	0.448	0.176	0.139	0.105	0.267	1.723	1.686	1.652	0.02	Case 57
	Back at 10mm	0.835	0.842	0.224	0.178	0.158	0.400	2.301	2.255	2.235	0.03	Case 58
Ant 0+2	Front at 10mm	0.832	0.696	0.176	0.139	0.105	0.267	1.971	1.934	1.900	0.03	Case 59
	Back at 10mm	0.835	0.512	0.224	0.178	0.158	0.400	1.971	1.925	1.905	0.03	Case 60
Ant 0+5	Front at 10mm	0.832	0.404	0.176	0.139	0.105	0.267	1.679	1.642	1.608	0.02	Case 61
	Back at 10mm	0.835	0.585	0.224	0.178	0.158	0.400	2.044	1.998	1.978	0.03	Case 62
Ant 0+7	Front at 10mm	0.832	0.461	0.176	0.139	0.105	0.267	1.736	1.699	1.665	0.02	Case 63
	Back at 10mm	0.835	0.626	0.224	0.178	0.158	0.400	2.085	2.039	2.019	0.03	Case 64
Ant 1+2	Front at 10mm	0.448	0.696	0.176	0.139	0.105	0.267	1.587	1.550	1.516		
	Back at 10mm	0.842	0.512	0.224	0.178	0.158	0.400	1.978	1.932	1.912	0.03	Case 65
Ant 1+6	Front at 10mm	0.448	0.368	0.176	0.139	0.105	0.267	1.259	1.222	1.188		
	Back at 10mm	0.842	0.340	0.224	0.178	0.158	0.400	1.806	1.760	1.740	0.03	Case 66
Ant 1+7	Front at 10mm	0.448	0.461	0.176	0.139	0.105	0.267	1.352	1.315	1.281		
	Back at 10mm	0.842	0.626	0.224	0.178	0.158	0.400	2.092	2.046	2.026	0.03	Case 67
Ant 2+5	Front at 10mm	0.696	0.404	0.176	0.139	0.105	0.267	1.543	1.506	1.472		
	Back at 10mm	0.512	0.585	0.224	0.178	0.158	0.400	1.721	1.675	1.655	0.02	Case 68
Ant 2+6	Front at 10mm	0.696	0.368	0.176	0.139	0.105	0.267	1.507	1.470	1.436		
	Back at 10mm	0.512	0.340	0.224	0.178	0.158	0.400	1.476	1.430	1.410		
Ant 5+6	Front at 10mm	0.404	0.368	0.176	0.139	0.105	0.267	1.215	1.178	1.144		
	Back at 10mm	0.585	0.340	0.224	0.178	0.158	0.400	1.549	1.503	1.483		
Ant 5+7	Front at 10mm	0.404	0.461	0.176	0.139	0.105	0.267	1.308	1.271	1.237		
	Back at 10mm	0.585	0.626	0.224	0.178	0.158	0.400	1.835	1.789	1.769	0.03	Case 69
Ant 6+7	Front at 10mm	0.368	0.461	0.176	0.139	0.105	0.267	1.272	1.235	1.201		
	Back at 10mm	0.340	0.626	0.224	0.178	0.158	0.400	1.590	1.544	1.524		



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

WWAN Antenna	Exposure Position	0	1	10	11	12	13	0+1+10+11 Summed 1g SAR (W/kg)	0+1+10+12 Summed 1g SAR (W/kg)	0+1+10+13 Summed 1g SAR (W/kg)	SPLSR Ratio	Case No.
		WWAN	WWAN	WLAN5/6GHz Ant 4+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth 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	0.448	0.267	0.169	0.119	0.167	1.716	1.666	1.714	0.02	Case 70
	Back at 10mm	0.835	0.842	0.400	0.232	0.200	0.320	2.309	2.277	2.397	0.04	Case 71
Ant 0+2	Front at 10mm	0.832	0.696	0.267	0.169	0.119	0.167	1.964	1.914	1.962	0.03	Case 72
	Back at 10mm	0.835	0.512	0.400	0.232	0.200	0.320	1.979	1.947	2.067	0.03	Case 73
Ant 0+5	Front at 10mm	0.832	0.404	0.267	0.169	0.119	0.167	1.672	1.622	1.670	0.02	Case 74
	Back at 10mm	0.835	0.585	0.400	0.232	0.200	0.320	2.052	2.020	2.140	0.03	Case 75
Ant 0+7	Front at 10mm	0.832	0.461	0.267	0.169	0.119	0.167	1.729	1.679	1.727	0.02	Case 76
	Back at 10mm	0.835	0.626	0.400	0.232	0.200	0.320	2.093	2.061	2.181	0.03	Case 77
Ant 1+2	Front at 10mm	0.448	0.696	0.267	0.169	0.119	0.167	1.580	1.530	1.578		
	Back at 10mm	0.842	0.512	0.400	0.232	0.200	0.320	1.986	1.954	2.074	0.03	Case 78
Ant 1+6	Front at 10mm	0.448	0.368	0.267	0.169	0.119	0.167	1.252	1.202	1.250		
	Back at 10mm	0.842	0.340	0.400	0.232	0.200	0.320	1.814	1.782	1.902	0.03	Case 79
Ant 1+7	Front at 10mm	0.448	0.461	0.267	0.169	0.119	0.167	1.345	1.295	1.343		
	Back at 10mm	0.842	0.626	0.400	0.232	0.200	0.320	2.100	2.068	2.188	0.03	Case 80
Ant 2+5	Front at 10mm	0.696	0.404	0.267	0.169	0.119	0.167	1.536	1.486	1.534		
	Back at 10mm	0.512	0.585	0.400	0.232	0.200	0.320	1.729	1.697	1.817	0.03	Case 81
Ant 2+6	Front at 10mm	0.696	0.368	0.267	0.169	0.119	0.167	1.500	1.450	1.498		
	Back at 10mm	0.512	0.340	0.400	0.232	0.200	0.320	1.484	1.452	1.572		
Ant 5+6	Front at 10mm	0.404	0.368	0.267	0.169	0.119	0.167	1.208	1.158	1.206		
	Back at 10mm	0.585	0.340	0.400	0.232	0.200	0.320	1.557	1.525	1.645	0.03	Case 82
Ant 5+7	Front at 10mm	0.404	0.461	0.267	0.169	0.119	0.167	1.301	1.251	1.299		
	Back at 10mm	0.585	0.626	0.400	0.232	0.200	0.320	1.843	1.811	1.931	0.03	Case 83
Ant 6+7	Front at 10mm	0.368	0.461	0.267	0.169	0.119	0.167	1.265	1.215	1.263		
	Back at 10mm	0.340	0.626	0.400	0.232	0.200	0.320	1.598	1.566	1.686	0.03	Case 84

F.6 Extremity Sim-Tx analysis

<WWAN, WLAN Index7/8/9>

WWAN Antenna	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	WLAN5/6GHz Ant 4+3 Index 7	WLAN5/6GHz Ant 4+3 Index 8	WLAN5/6GHz Ant 4+3 Index 9	NFC			
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)			
Ant 0	Front at 10mm		1.333	0.884	0.884	0.001	1.334	0.885	0.885
	Back at 10mm		0.798	0.475	0.475	0.093	0.891	0.568	0.568
	Left side at 10mm		1.794	1.528	1.528	0.002	1.796	1.530	1.530
	Right side at 10mm		1.564	0.866	0.866	0.001	1.565	0.867	0.867
	Top side at 10mm		0.871	0.756	0.756		0.871	0.756	0.756
	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)			Minimum 3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WWAN Ant 1	Right Cheek	0.994	0mm	14	-318	-174.2	85.3	1.829	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)			Minimum 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	76.2	2.055	0.04	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.22	0mm	67.6	-319.8	-171.5				

<Case 3>

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

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				
WWAN Ant 7	Right Cheek	0.594	0mm	47.3	-241.9	-173.7	74.4	1.814	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4 + BT Ant 3		1.22	0mm	-5.7	-294	-169.3				

<Case 4>

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

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				
WWAN Ant 2	Right Cheek	0.835	0mm	59.6	-244	-173.3	76.2	2.104	0.04	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.269	0mm	67.6	-319.8	-171.5				

<Case 5>

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

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				
WWAN Ant 7	Right Cheek	0.594	0mm	47.3	-241.9	-173.7	74.4	1.863	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.269	0mm	-5.7	-294	-169.3				

<Case 6>

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

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				
WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	104.7	2.192	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.448	10mm	18.5	27.5	-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)			Minimum 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	103.5	1.678	0.02	Not required
WLAN Ant 3+4		0.391	10mm	-64	25.5	-207				

<Case 8>

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

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				
WWAN Ant 0+2	Back	1.256	10mm	2	-64.8	-207	93.8	1.862	0.03	Not required
WLAN Ant 3+4		0.606	10mm	18.5	27.5	-207				

<Case 9>

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

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				
WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	104.7	1.822	0.02	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.078	10mm	18.5	27.5	-207				

<Case 10>

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

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				
WWAN Ant 0+7	Back	1.37	10mm	-7	-74	-207	104.7	1.976	0.03	Not required
WLAN Ant 3+4		0.606	10mm	18.5	27.5	-207				

<Case 11>

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

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				
WWAN Ant 2	Back	0.512	10mm	2	-64.8	-207	93.8	1.960	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.448	10mm	18.5	27.5	-207				

<Case 12>

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 6

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				
WWAN Ant 6	Back	0.34	10mm	15	-54	-207	81.6	1.788	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.448	10mm	18.5	27.5	-207				

<Case 13>

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

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				
WWAN Ant 7	Back	0.626	10mm	-57.9	-54.7	-207	112.2	2.074	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.448	10mm	18.5	27.5	-207				

<Case 14>

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

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				
Maximum WWAN Ant 2	Back	0.512	10mm	-25.6	46.5	-207	71.2	1.956	0.04	Not required
Maximum WWAN Ant 5 + WLAN Ant 3+4		1.444	10mm	-21.6	-24.6	-207				

<Case 15>

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

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				
Maximum WWAN Ant 7	Back	0.626	10mm	-63	-54	-207	85.0	1.704	0.03	Not required
Maximum WWAN Ant 5 + WLAN Ant 3+4		1.078	10mm	-67.9	30.9	-207				

<Case 16>

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

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				
WWAN Ant 7	Right Side	0.815	10mm	-24.2	58	-207	82.6	2.086	0.04	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.271	10mm	-21.6	-24.6	-207				

<Case 17>

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

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				
Maximum WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	104.5	2.191	0.03	Not required
Maximum WWAN Ant 1 + WLAN Ant 3+4		1.447	10mm	18	27.5	-207				

<Case 18>

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

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				
WWAN Ant 0+2	Front	1.287	10mm	-51.4	-77.2	-207	103.5	1.644	0.02	Not required
WLAN Ant 3+4		0.357	10mm	-64	25.5	-207				

<Case 19>

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

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				
WWAN Ant 0+2	Back	1.256	10mm	2	-64.8	-207	93.7	1.861	0.03	Not required
WLAN Ant 3+4		0.605	10mm	18	27.5	-207				

<Case 20>

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

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				
WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	104.5	1.821	0.02	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.077	10mm	18	27.5	-207				

<Case 21>

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

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				
WWAN Ant 0+7	Back	1.37	10mm	-7	-74	-207	104.5	1.975	0.03	Not required
WLAN Ant 3+4		0.605	10mm	18	27.5	-207				

<Case 22>

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

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				
WWAN Ant 2	Back	0.512	10mm	2	-64.8	-207	93.7	1.959	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.447	10mm	18	27.5	-207				

<Case 23>

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 6

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				
WWAN Ant 6	Back	0.34	10mm	15	-54	-207	81.6	1.787	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.447	10mm	18	27.5	-207				

<Case 24>

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

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				
Maximum WWAN Ant 7	Back	0.626	10mm	-57.9	-54.7	-207	111.9	2.073	0.03	Not required
Maximum WWAN Ant 1 + WLAN Ant 3+4		1.447	10mm	18	27.5	-207				

<Case 25>

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

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				
Maximum WWAN Ant 2	Back	0.512	10mm	-25.6	46.5	-207	71.2	1.958	0.04	Not required
Maximum WWAN Ant 5 + WLAN Ant 3+4		1.444	10mm	-21.6	-24.6	-207				

<Case 26>

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

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				
Maximum WWAN Ant 7	Back	0.626	10mm	-63	-54	-207	85.0	1.703	0.03	Not required
Maximum WWAN Ant 5 + WLAN Ant 3+4		1.077	10mm	-67.9	30.9	-207				

<Case 27>

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

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				
Maximum WWAN Ant 7	Right Side	0.815	10mm	-24.2	58	-207	82.6	2.088	0.04	Not required
Maximum WWAN Ant 5 + WLAN Ant 3+4		1.273	10mm	-21.6	-24.6	-207				

<Case 28>

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

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				
WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	103.3	2.209	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.465	10mm	19	26	-207				

<Case 29>

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

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				
WWAN Ant 0+2	Front	1.287	10mm	-51.4	-77.2	-207	105.5	1.637	0.02	Not required
WLAN/BT Ant 3+4		0.35	10mm	-64	27.5	-207				

<Case 30>

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

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				
WWAN Ant 0+2	Back	1.256	10mm	2	-64.8	-207	92.4	1.879	0.03	Not required
WLAN/BT Ant 3+4		0.623	10mm	19	26	-207				

<Case 31>

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

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				
WWAN Ant 0	Back	0.744	10mm	-7	-74	-207	103.3	1.839	0.02	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		1.095	10mm	19	26	-207				

<Case 32>

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

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				
WWAN Ant 0+7	Back	1.37	10mm	-7	-74	-207	103.3	1.993	0.03	Not required
WLAN/BT Ant 3+4		0.623	10mm	19	26	-207				

<Case 33>

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

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				
WWAN Ant 2	Back	0.512	10mm	2	-64.8	-207	92.4	1.977	0.03	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.465	10mm	19	26	-207				

<Case 34>

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 6

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				
WWAN Ant 6	Back	0.34	10mm	15	-54	-207	80.1	1.805	0.03	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.465	10mm	19	26	-207				

<Case 35>

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

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				
WWAN Ant 7	Back	0.626	10mm	-57.9	-54.7	-207	111.5	2.091	0.03	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.465	10mm	19	26	-207				

<Case 36>

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

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				
Maximum WWAN Ant 2	Back	0.512	10mm	2	-64.8	-207	92.4	1.607	0.02	Not required
Maximum WWAN Ant 5 + WLAN Ant 3+4		1.095	10mm	19	26	-207				



<Case 37>

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

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				
WWAN Ant 2	Back	0.512	10mm	-25.6	46.5	-207	71.2	2.017	0.04	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		1.505	10mm	-21.6	-24.6	-207				

<Case 38>

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

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				
WWAN Ant 7	Back	0.626	10mm	-63	-54	-207	85.0	1.721	0.03	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		1.095	10mm	-67.9	30.9	-207				

<Case 39>

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

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				
Maximum WWAN Ant 7	Right Side	0.815	10mm	-24.2	58	-207	82.6	2.147	0.04	Not required
Maximum WWAN Ant 5 + WLAN Ant 3+4		1.332	10mm	-21.6	-24.6	-207				



<Case 40>

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	0+2	0+3	0+4	0+5	0+6	0+7	0+8	0+9	0+10	0+11	0+13	0+14	0+15
	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR	Summed SAR
GSM850_Ant 0	0.782	1.098	1.185	1.048	1.300	1.219	1.248	1.278	1.110	1.539	1.290	1.345	1.406	1.209	1.286
GSM1900_Ant 0	0.629	0.945	1.032	0.895	1.147	1.066	1.095	1.125	0.957	1.386	1.137	1.192	1.253	1.056	1.133
WCDMA II_Ant 0	0.946	1.262	1.349	1.212	1.464	1.383	1.412	1.442	1.274	1.703	1.454	1.509	1.570	1.373	1.450
WCDMA IV_Ant 0	0.701	1.017	1.104	0.967	1.219	1.138	1.167	1.197	1.029	1.458	1.209	1.264	1.325	1.128	1.205
WCDMA V_Ant 0	0.551	0.867	0.954	0.817	1.069	0.988	1.017	1.047	0.879	1.308	1.059	1.114	1.175	0.978	1.055
LTE Band 7_Ant 0	0.924	1.240	1.327	1.190	1.442	1.361	1.390	1.420	1.252	1.681	1.432	1.487	1.548	1.351	1.428
LTE Band 12_Ant 0	0.287	0.603	0.690	0.553	0.805	0.724	0.753	0.783	0.615	1.044	0.795	0.850	0.911	0.714	0.791
LTE Band 13_Ant 0	0.393	0.709	0.796	0.659	0.911	0.830	0.859	0.889	0.721	1.150	0.901	0.956	1.017	0.820	0.897
LTE Band 14_Ant 0	0.372	0.688	0.775	0.638	0.890	0.809	0.838	0.868	0.700	1.129	0.880	0.935	0.996	0.799	0.876
LTE Band 25_Ant 0	0.698	1.014	1.101	0.964	1.216	1.135	1.164	1.194	1.026	1.455	1.206	1.261	1.322	1.125	1.202
LTE Band 26_Ant 0	0.625	0.941	1.028	0.891	1.143	1.062	1.091	1.121	0.953	1.382	1.133	1.188	1.249	1.052	1.129
LTE Band 30_Ant 0	0.932	1.248	1.335	1.198	1.450	1.369	1.398	1.428	1.260	1.689	1.440	1.495	1.556	1.359	1.436
LTE Band 41_Ant 0	0.656	0.972	1.059	0.922	1.174	1.093	1.122	1.152	0.984	1.413	1.164	1.219	1.280	1.083	1.160
LTE Band 66_Ant 0	0.698	1.014	1.101	0.964	1.216	1.135	1.164	1.194	1.026	1.455	1.206	1.261	1.322	1.125	1.202
LTE Band 71_Ant 0	0.345	0.661	0.748	0.611	0.863	0.782	0.811	0.841	0.673	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	1.288	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	0.651	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	1.013	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	0.850	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	1.033	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	1.306	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	1.083	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	0.913	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	0.599	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				
WCDMA II_Ant 0	Front	0.946	10mm	-43.9	-84.4	-207	62.1	1.703	0.04	Not required
FR1 n7_Ant 2		0.757	10mm	16	-68	-207				
LTE Band 7_Ant 0	Front	0.924	10mm	-39	-80	-207	56.3	1.681	0.04	Not required
FR1 n7_Ant 2		0.757	10mm	16	-68	-207				
LTE Band 30_Ant 0	Front	0.932	10mm	-43	-84	-207	61.1	1.689	0.04	Not required
FR1 n7_Ant 2		0.757	10mm	16	-68	-207				
FR1 n7_Ant 0	Front	0.960	10mm	-52	-77	-207	68.6	1.717	0.03	Not required
FR1 n7_Ant 2		0.757	10mm	16	-68	-207				
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				
FR1 n41_Ant 0	Front	0.978	10mm	-44	-80	-207	55.9	1.602	0.04	Not required
FR1 n41_Ant 2		0.624	10mm	11	-70	-207				

<Case 41>

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

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				
WWAN Ant 0	Back	0.981	10mm	-8	-75	-207	139.4	1.970	0.02	Not required
WWAN Ant 1		0.989	10mm	12	63	-207				
WWAN Ant 0	Back	0.981	10mm	-9	-75	-207	120.3	1.668	0.02	Not required
WWAN Ant 5		0.687	10mm	-63	32.5	-207				
WWAN Ant 0	Back	0.981	10mm	-22.3	-83.4	-207	46.0	1.621	0.04	Not required
WWAN Ant 7		0.64	10mm	-60	-57	-207				
WWAN Ant 1	Back	0.989	10mm	12	63	-207	139.3	1.629	0.01	Not required
WWAN Ant 7		0.64	10mm	-60.5	-56	-207				

<Case 42>

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

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				
WWAN Ant 0	Front	0.832	10mm	-52	-77	-207	103.2	1.679	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		0.847	10mm	-64	25.5	-207				

<Case 43>

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

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				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	105.9	2.390	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.555	10mm	18.5	27.5	-207				

<Case 44>

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

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				
WWAN Ant 0+2	Front	1.528	10mm	-52	-77	-207	103.2	1.927	0.03	Not required
WLAN Ant 3+4		0.399	10mm	-64	25.5	-207				

<Case 45>

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

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				
WWAN Ant 0+2	Back	1.347	10mm	-8	-75	-207	105.9	2.060	0.03	Not required
WLAN Ant 3+4		0.713	10mm	18.5	27.5	-207				

<Case 46>

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

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				
WWAN Ant 0	Front	0.832	10mm	-52	-77	-207	103.2	1.635	0.02	Not required
WWAN Ant 5 + WLAN Ant 3+4		0.803	10mm	-64	25.5	-207				

<Case 47>

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

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				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	105.9	2.133	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.298	10mm	18.5	27.5	-207				

<Case 48>

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

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				
WWAN Ant 0+7	Front	1.293	10mm	-52	-77	-207	103.2	1.692	0.02	Not required
WLAN Ant 3+4		0.399	10mm	-64	25.5	-207				

<Case 49>

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

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				
WWAN Ant 0+7	Back	1.461	10mm	-8	-75	-207	105.9	2.174	0.03	Not required
WLAN Ant 3+4		0.713	10mm	18.5	27.5	-207				

<Case 50>

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

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				
WWAN Ant 2	Back	0.512	10mm	-45	-64	-207	111.4	2.067	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.555	10mm	18.5	27.5	-207				

<Case 51>

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 6

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				
WWAN Ant 6	Back	0.34	10mm	15	-54	-207	81.6	1.895	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.555	10mm	18.5	27.5	-207				

<Case 52>

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

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				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	114.9	2.181	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.555	10mm	18.5	27.5	-207				

<Case 53>

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

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				
WWAN Ant 2	Back	0.512	10mm	-48	-64	-207	97.0	1.810	0.03	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.298	10mm	-67.9	30.9	-207				

<Case 54>

Hybrid SPLSR calculation for antenna (5+3+4) and antenna 6

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				
WWAN Ant 6	Back	0.34	10mm	15	-54	-207	81.6	1.638	0.03	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.298	10mm	18.5	27.5	-207				

<Case 55>

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

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				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	87.2	1.924	0.03	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.298	10mm	-67.9	30.9	-207				

<Case 56>

Hybrid SPLSR calculation for antenna (6+7) and antenna (3+4)

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				
WWAN Ant 6+7	Back	0.966	10mm	15	-54	-207	81.6	1.679	0.03	Not required
WLAN Ant 3+4		0.713	10mm	18.5	27.5	-207				

<Case 57>

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

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				
WWAN Ant 0	Front	0.832	10mm	-52	-77	-207	103.2	1.723	0.02	Not required
WWAN Ant 1 + WLAN Ant 3+4		0.891	10mm	-64	25.5	-207				

<Case 58>

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

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				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	105.7	2.301	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.466	10mm	18	27.5	-207				

<Case 59>

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

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				
WWAN Ant 0+2	Front	1.528	10mm	-52	-77	-207	103.2	1.971	0.03	Not required
WLAN Ant 3+4		0.443	10mm	-64	25.5	-207				

<Case 60>

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

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				
WWAN Ant 0+2	Back	1.347	10mm	-8	-75	-207	105.7	1.971	0.03	Not required
WLAN Ant 3+4		0.624	10mm	18	27.5	-207				

<Case 61>

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

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				
WWAN Ant 0	Front	0.832	10mm	-52	-77	-207	103.2	1.679	0.02	Not required
WWAN Ant 5 + WLAN Ant 3+4		0.847	10mm	-64	25.5	-207				

<Case 62>

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

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				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	105.7	2.044	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.209	10mm	18	27.5	-207				

<Case 63>

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

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				
WWAN Ant 0+7	Front	1.293	10mm	-52	-77	-207	103.2	1.736	0.02	Not required
WLAN Ant 3+4		0.443	10mm	-64	25.5	-207				

<Case 64>

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

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				
WWAN Ant 0+7	Back	1.461	10mm	-8	-75	-207	105.7	2.085	0.03	Not required
WLAN Ant 3+4		0.624	10mm	18	27.5	-207				

<Case 65>

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

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				
WWAN Ant 2	Back	0.512	10mm	-45	-64	-207	111.1	1.978	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.466	10mm	18	27.5	-207				

<Case 66>

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 6

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				
WWAN Ant 6	Back	0.34	10mm	15	-54	-207	81.6	1.806	0.03	Not required
WWAN Ant 1 + WLAN Ant 3+4		1.466	10mm	18	27.5	-207				

<Case 67>

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

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				
Maximum WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	114.6	2.092	0.03	Not required
Maximum WWAN Ant 1 + WLAN Ant 3+4		1.466	10mm	18	27.5	-207				

<Case 68>

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

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				
WWAN Ant 2	Back	0.512	10mm	-48	-64	-207	97.0	1.721	0.02	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.209	10mm	-67.9	30.9	-207				

<Case 69>

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

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				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	87.2	1.835	0.03	Not required
WWAN Ant 5 + WLAN Ant 3+4		1.209	10mm	-67.9	30.9	-207				

<Case 70>

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

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				
WWAN Ant 0	Front	0.832	10mm	-52	-77	-207	105.2	1.716	0.02	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		0.884	10mm	-64	27.5	-207				

<Case 71>

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

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				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	104.5	2.397	0.04	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.562	10mm	19	26	-207				

<Case 72>

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

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				
WWAN Ant 0+2	Front	1.528	10mm	-52	-77	-207	105.2	1.964	0.03	Not required
WLAN/BT Ant 3+4		0.436	10mm	-64	27.5	-207				

<Case 73>

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

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				
WWAN Ant 0+2	Back	1.347	10mm	-8	-75	-207	104.5	2.067	0.03	Not required
WLAN/BT Ant 3+4		0.72	10mm	19	26	-207				

<Case 74>

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

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				
WWAN Ant 0	Front	0.832	10mm	-52	-77	-207	105.2	1.672	0.02	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		0.84	10mm	-64	27.5	-207				

<Case 75>

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

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				
WWAN Ant 0	Back	0.835	10mm	-8	-75	-207	104.5	2.140	0.03	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		1.305	10mm	19	26	-207				

<Case 76>

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

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				
WWAN Ant 0+7	Front	1.293	10mm	-52	-77	-207	105.2	1.729	0.02	Not required
WLAN/BT Ant 3+4		0.436	10mm	-64	27.5	-207				

<Case 77>

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

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				
WWAN Ant 0+7	Back	1.461	10mm	-8	-75	-207	104.5	2.181	0.03	Not required
WLAN/BT Ant 3+4		0.72	10mm	19	26	-207				

<Case 78>

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

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				
WWAN Ant 2	Back	0.512	10mm	-45	-64	-207	110.4	2.074	0.03	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.562	10mm	19	26	-207				

<Case 79>

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 6

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				
WWAN Ant 6	Back	0.34	10mm	15	-54	-207	80.1	1.902	0.03	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.562	10mm	19	26	-207				

<Case 80>

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

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				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	114.2	2.188	0.03	Not required
WWAN Ant 1 + WLAN/BT Ant 3+4		1.562	10mm	19	26	-207				

<Case 81>

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

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				
WWAN Ant 2	Back	0.512	10mm	-48	-64	-207	97.0	1.817	0.03	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		1.305	10mm	-67.9	30.9	-207				

<Case 82>

Hybrid SPLSR calculation for antenna (1+3+4) and antenna 6

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				
WWAN Ant 6	Back	0.34	10mm	15	-54	-207	80.1	1.645	0.03	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		1.305	10mm	19	26	-207				

<Case 83>

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

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				
WWAN Ant 7	Back	0.626	10mm	-60.5	-56	-207	87.2	1.931	0.03	Not required
WWAN Ant 5 + WLAN/BT Ant 3+4		1.305	10mm	-67.9	30.9	-207				

<Case 84>

Hybrid SPLSR calculation for antenna (6+7) and antenna (3+4)

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				
WWAN Ant 6+7	Back	0.966	10mm	15	-54	-207	80.1	1.686	0.03	Not required
WLAN/BT Ant 3+4		0.72	10mm	19	26	-207				