



Appendix F. Sim-Tx SAR consideration

F.1 Sim-Tx Configuration

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



Exposure Condition	Tx mode	Capable TX Configurations	WWAN Power Index	WiFi Power Index	BT/Thread Power Index
Body	WWAN standalone	WWAN	Index 5		
	WiFi standalone	WiFi 2.4G SISO	Index 3		
		WiFi 2.4G MIMO/CDD			
		WiFi 5G MIMO			
		WiFi 6E MIMO			
		WiFi 2.4G SISO + WiFi 5G MIMO			
		WiFi 2.4G MIMO + WiFi 5G MIMO			
		WiFi 2.4G SISO + WiFi 6E MIMO			
		WiFi 2.4G MIMO + WiFi 6E MIMO			
	BT/Thread standalone	Bluetooth SISO or MIMO / Thread			Index 0
	WiFi +BT/Thread	WiFi 5G MIMO + Bluetooth SISO or MIMO	Index 3		Index 2
		WiFi 5G MIMO + Thread			
		WiFi 6E MIMO + Bluetooth SISO or MIMO			
		WiFi 6E MIMO + Thread			
	WWAN + WiFi	WWAN + WiFi 2.4G SISO	Index 6 / Index 4	Index 4	
		WWAN + WiFi 2.4G MIMO/CDD			
		WWAN + WiFi 5G MIMO			
		WWAN + WiFi 6E MIMO			
		WWAN + WiFi 2.4G SISO + WiFi 5G MIMO			
		WWAN + WiFi 2.4G MIMO + WiFi 5G MIMO			
WWAN + WiFi 2.4G SISO + WiFi 6E MIMO					
WWAN + WiFi 2.4G MIMO + WiFi 6E MIMO					
WWAN + BT/Thread	WWAN + Bluetooth SISO or MIMO / Thread	Index 6 / Index 4		Index 2	
WWAN + WiFi + BT/Thread	WWAN + WiFi 5G MIMO + Bluetooth SISO or MIMO / Thread	Index 6 / Index 4	Index 4	Index 2	
	WWAN + WiFi 6E MIMO + Bluetooth SISO or MIMO / Thread				

General Note:

- This device WLAN 2.4GHz / 5.2GHz / 5.8GHz and WLAN 6GHz VLP 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 NFC mainly operate in hand-held extremity condition; therefore, the NFC Sim-Tx analysis was including in section F6.
- 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.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, 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.
 - If $SPLSR \leq 0.04$, 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 3G/4G/5G NR WWAN including NTN, 5GNR EN-DC, 5GNR NRDC and LTE/FR1 intra-band/inter-band uplink CA are in compliance with RF Exposure requirements, while the RF exposure from 2G 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 purpose of these power ratio factors is to split the available SAR budget among different RATs, so g1 + g2 ≤ 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 ≤ 1.0,

then, g1* LTEexposure + g2* NRexposure ≤ max (LTEexposure , NRexposure)

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

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, AG2 and the compliance between AG0 and BT/WLAN/NFC/Thread, between AG1 and BT/WLAN/NFC/Thread and AG2 and BT/WLAN/NFC/Thread. The NTN wireless technology is not applied for Spatial TAS with other antenna groups.

Thus, the 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.

Table with 5 columns: Group, Antenna, AG0, AG1, AG2, external radio. Row 1: AG0, Ant 0, Ant 6, Ant 1, Ant 5, Ant 2, Ant 7, WLAN/BT/Thread/NFC/UWB

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, 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.6 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, Thread Index1>

Exposure Position	1	2	3	4	5	6	7	8	1+4 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	3+4 Summed 1g SAR (W/kg)	4+5 Summed 1g SAR (W/kg)	4+6 Summed 1g SAR (W/kg)	4+7 Summed 1g SAR (W/kg)	4+8 Summed 1g SAR (W/kg)
	WLAN2.4GHz Ant 3 1g SAR (W/kg)	WLAN2.4GHz Ant 4 1g SAR (W/kg)	WLAN2.4GHz Ant 3+4 1g SAR (W/kg)	WLAN5/6GHz Ant 3+4 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3+4 1g SAR (W/kg)	Thread Ant 3 1g SAR (W/kg)							
Right Cheek	0.751	0.106	0.703	0.750	0.203	0.056	0.208	0.216	1.501	0.856	1.453	0.953	0.806	0.958	0.966
Right Tilted	0.143	0.125	0.411	0.530	0.034	0.062	0.107	0.046	0.673	0.655	0.941	0.564	0.592	0.637	0.576
Left Cheek	0.304	0.483	0.481	0.793	0.064	0.219	0.197	0.109	1.097	1.276	1.274	0.857	1.012	0.990	0.902
Left Tilted	0.077	0.270	0.312	0.430	0.023	0.110	0.105	0.109	0.507	0.700	0.742	0.453	0.540	0.535	0.539

<WWAN Index2>

Exposure Position	Max Ant 0	Max Ant 1	Max Ant 2	Max Ant 5	Max Ant 6	Max 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)	Ant 1+2 SPLSR	Ant 1+2 Case No	Ant 1+7 SPLSR	Ant 1+7 Case No
	WWAN 1g SAR (W/kg)	WWAN 1g SAR (W/kg)	WWAN 1g SAR (W/kg)	WWAN 1g SAR (W/kg)	WWAN 1g SAR (W/kg)	WWAN 1g SAR (W/kg)																
Right Cheek at 0mm	0.366	0.988	0.710	0.518	0.316	0.757	1.354	1.076	0.884	1.123	1.698	1.304	1.745	1.228	1.026	0.834	1.275	1.073	0.030	Case 1	0.030	Case 2
Right Tilted at 0mm	0.180	0.991	0.193	0.504	0.386	0.302	1.171	0.373	0.684	0.482	1.184	1.377	1.293	0.697	0.579	0.890	0.806	0.688				
Left Cheek at 0mm	0.463	0.896	0.362	0.975	0.450	0.483	1.359	0.825	1.438	0.946	1.258	1.346	1.379	1.337	0.812	1.425	1.458	0.933				
Left Tilted at 0mm	0.253	0.731	0.321	0.502	0.214	0.576	0.984	0.574	0.755	0.829	1.052	0.945	1.307	0.823	0.535	0.716	1.078	0.790				



F.4 Hotspot Sim-Tx analysis

<WWAN Index4, WLAN Index4, BT Index2, Thread Index2>

Table with columns for Exposure Position (0-9, 1g SAR, Summed 1g SAR), Antenna (Ant 0+1 to Ant 2+5), and SAR values (W/kg) for various frequencies and cases.



FCC SAR TEST REPORT

Report No. :FA4N0918C

	Back	0.482	0.308	0.123	0.051	0.092	0.253	0.173	0.204	0.119	0.144	1.166	1.094	1.135	1.216	1.247	1.162	1.187																									
	Left side	0.078	0.486	0.200	0.001	0.189	0.220	0.215	0.011	0.208	0.214	0.984	0.785	0.973	0.999	0.795	0.992	0.998																									
	Right side	0.525	0.001	0.005	0.078	0.070	0.163	0.006	0.253	0.113	0.001	0.694	0.767	0.759	0.695	0.942	0.802	0.690																									
	Top side			0.020	0.022	0.043	0.149	0.020	0.049	0.055	0.019	0.169	0.171	0.192	0.169	0.198	0.204	0.168																									
	Bottom side	0.210	0.237	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.449	0.449	0.449	0.449	0.449	0.449	0.449																									
Ant 5+6	Front	0.497	0.475	0.099	0.044	0.101	0.234	0.126	0.200	0.104	0.119	1.305	1.250	1.307	1.332	1.406	1.310	1.325																									
	Back	0.599	0.308	0.123	0.051	0.092	0.253	0.173	0.204	0.119	0.144	1.283	1.211	1.252	1.333	1.364	1.279	1.304																									
	Left side	0.130	0.486	0.200	0.001	0.189	0.220	0.215	0.011	0.208	0.214	1.036	0.837	1.025	1.051	0.847	1.044	1.050																									
	Right side	0.847	0.001	0.005	0.078	0.070	0.163	0.006	0.253	0.113	0.001	1.016	1.089	1.081	1.017	1.264	1.124	1.012																									
	Top side	0.619		0.020	0.022	0.043	0.149	0.020	0.049	0.055	0.019	0.788	0.790	0.811	0.788	0.817	0.823	0.787																									
	Bottom side		0.237	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.239	0.239	0.239	0.239	0.239	0.239	0.239																								
Ant 5+7	Front	0.497	0.357	0.099	0.044	0.101	0.234	0.126	0.200	0.104	0.119	1.187	1.132	1.189	1.214	1.288	1.192	1.207																									
	Back	0.599	0.346	0.123	0.051	0.092	0.253	0.173	0.204	0.119	0.144	1.321	1.249	1.290	1.371	1.402	1.317	1.342																									
	Left side	0.130	0.001	0.200	0.001	0.189	0.220	0.215	0.011	0.208	0.214	0.551	0.352	0.540	0.566	0.362	0.559	0.565																									
	Right side	0.847	0.744	0.005	0.078	0.070	0.163	0.006	0.253	0.113	0.001	1.759	1.832	1.824	1.760	2.007	1.867	1.755	0.02	Case 53	0.03	Case 54	0.03	Case 55	0.03	Case 56	0.03	Case 57	0.03	Case 58	0.02	Case 59											
	Top side	0.619		0.020	0.022	0.043	0.149	0.020	0.049	0.055	0.019	0.788	0.790	0.811	0.788	0.817	0.823	0.787																									
	Bottom side		0.172	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.174	0.174	0.174	0.174	0.174	0.174	0.174																								
Ant 5+7	Front	0.475	0.357	0.099	0.044	0.101	0.234	0.126	0.200	0.104	0.119	1.165	1.110	1.167	1.192	1.266	1.170	1.185																									
	Back	0.308	0.346	0.123	0.051	0.092	0.253	0.173	0.204	0.119	0.144	1.030	0.958	0.999	1.080	1.111	1.026	1.051																									
	Left side	0.486	0.001	0.200	0.001	0.189	0.220	0.215	0.011	0.208	0.214	0.907	0.708	0.896	0.922	0.718	0.915	0.921																									
	Right side	0.001	0.744	0.005	0.078	0.070	0.163	0.006	0.253	0.113	0.001	0.913	0.986	0.978	0.914	1.161	1.021	0.909																									
	Top side			0.020	0.022	0.043	0.149	0.020	0.049	0.055	0.019	0.169	0.171	0.192	0.169	0.198	0.204	0.168																									
	Bottom side	0.237	0.172	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.411	0.411	0.411	0.411	0.411	0.411	0.411																									



F.6 Product Specific Sim-Tx analysis

<WLAN Index3, NFC>

Exposure Position	1	2	1+2 Summed 10g SAR (W/kg)
	WLAN5/6GHz Ant 3+4	NFC	
	10g SAR (W/kg)	10g SAR (W/kg)	
Front	2.701	0.001	2.702
Back	0.680	0.014	0.694
Left Edge	1.970	0.001	1.971
Right Edge	1.511	0.001	1.512
Top Edge	1.126	0.001	1.127
Bottom Edge			0.000

<WWAN Index6, WLAN Index4, NFC>

Exposure Position	1	3	4	1+3+4 Summed 10g SAR (W/kg)
	WWAN	WLAN5/6GHz Ant 3+4	NFC	
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Front		1.665	0.001	1.666
Back		0.441	0.014	0.455
Left Edge		0.936	0.001	0.937
Right Edge		0.711	0.001	0.712
Top Edge		0.558	0.001	0.559
Bottom Edge	2.492			2.492



F.6 SAR Peak Location Distance and SPLSR analysis

<Case 1>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0		5		10		15		20		25		30		35		40	
	Worst Case	Best Case	Worst Case	Best Case	Worst Case	Best Case	Worst Case	Best Case	Worst Case	Best Case	Worst Case	Best Case	Worst Case	Best Case	Worst Case	Best Case	Worst Case	Best Case
Right Cheek	to SAR (W/kg)																	
Summation SAR	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Worst Case SAR	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Best Case SAR	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Exposure Position	T (mm)	F (mm)	SPLSR																	
			0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
Right Cheek	to SAR (W/kg)																			
014	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
015	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
016	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
017	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
018	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
019	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
020	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
021	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
022	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
023	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
024	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
025	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
026	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
027	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
028	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
029	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
030	0001	0010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	



<Case 2>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	9	10	11
	WWAN SAR	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Cheek	1g SAR (W/kg)	0.193	0.270	0.757
		0+9 Summed SAR	0+10 Summed SAR	0+11 Summed SAR
GSM850_Ant 1 TX1	0.988	1.181	1.258	1.745
WCDMA V_Ant 1 TX1	0.977	1.170	1.247	1.734
LTE Band 12_Ant 1 TX1	0.970	1.163	1.240	1.727
LTE Band 13_Ant 1 TX1	0.806	0.999	1.076	1.563
LTE Band 14_Ant 1 TX1	0.808	1.001	1.078	1.565
LTE Band 25_Ant 1 Sub TX0	0.903	1.096	1.173	1.660
LTE Band 26_Ant 1 TX1	0.909	1.102	1.179	1.666
LTE Band 66_Ant 1 Sub TX0	0.988	1.181	1.258	1.745
LTE Band 71_Ant 1 TX1	0.887	1.080	1.157	1.644
FR1 n12_Ant 1 TX1	0.750	0.943	1.020	1.507
FR1 n14_Ant 1 TX1	0.943	1.136	1.213	1.700
FR1 n25_Ant 1 Sub TX0	0.974	1.167	1.244	1.731
FR1 n26_Ant 1 TX1	0.824	1.017	1.094	1.581
FR1 n41_Ant 1 Sub TX0	0.868	1.061	1.138	1.625
FR1 n48_Ant 1 Sub TX0	0.932	1.125	1.202	1.689
FR1 n66_Ant 1 Sub TX0	0.975	1.168	1.245	1.732
FR1 n71_Ant 1 TX1	0.985	1.178	1.255	1.742
FR1 n77_Ant 1 Sub TX0	0.867	1.060	1.137	1.624

SAR peak location (mm)			X (axis)	53.2	51.1	51.8	
			Y (axis)	-241.8	-247.2	-247.7	
			Z (axis)	-177	-174.4	-174.4	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	9	10	11
				WWAN SAR	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
			Right Cheek	1g SAR (W/kg)	0.193	0.27	0.757
					0+9 SPLSR Results	0+10 SPLSR Results	0+11 SPLSR Results
21.9	-329.1	-174.6	GSM850_Ant 1 TX1	0.988			0.03
42.6	-327.6	-174.9	WCDMA V_Ant 1 TX1	0.977			0.03
16.8	-326.8	-174.3	LTE Band 12_Ant 1 TX1	0.970			0.03
22	-332.5	-174.4	LTE Band 13_Ant 1 TX1	0.806			
20.5	-330.4	-174.4	LTE Band 14_Ant 1 TX1	0.808			
19.1	-330.3	-174.3	LTE Band 25_Ant 1 Sub TX0	0.903			0.02
43.9	-327.9	-174.8	LTE Band 26_Ant 1 TX1	0.909			0.03
15.8	-331.7	-174.1	LTE Band 66_Ant 1 Sub TX0	0.988			0.03
19.3	-331.3	-174.3	LTE Band 71_Ant 1 TX1	0.887			0.02
14	-323.1	-174.2	FR1 n12_Ant 1 TX1	0.750			
20.2	-327.7	-174.5	FR1 n14_Ant 1 TX1	0.943			0.03
18.2	-331.4	-174.2	FR1 n25_Ant 1 Sub TX0	0.974			0.03
22.6	-332.9	-174.4	FR1 n26_Ant 1 TX1	0.824			
39	-331.2	-174.7	FR1 n41_Ant 1 Sub TX0	0.868			0.02
38	-339.8	-176.5	FR1 n48_Ant 1 Sub TX0	0.932			0.02
16.6	-327.8	-174.3	FR1 n66_Ant 1 Sub TX0	0.975			0.03
22.1	-330.9	-174.5	FR1 n71_Ant 1 TX1	0.985			0.03
12.6	-318.5	-174.1	FR1 n77_Ant 1 Sub TX0	0.867			0.03



<Case 3>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Frequency, Power, and SAR values across multiple test scenarios.

Table with columns for Frequency, Power, and SAR values across multiple test scenarios.



<Case 4>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	9	10	11	12	13	14	15
	WWAN SAR	LTE Band 25_Ant 5 Sub TX1	LTE Band 66_Ant 5 Sub TX1	FR1 n25_Ant 5 Sub TX1	FR1 n66_Ant 5 Sub TX1	FR1 n41_Ant 5 Sub TX1	FR1 n48_Ant 5 Sub TX1	FR1 n77_Ant 5 Sub TX1
Back	0.489	0.598	0.609	0.609	0.635	0.755	0.536	0.357
	Dn9 Summed SAR	Dn10 Summed SAR	Dn11 Summed SAR	Dn12 Summed SAR	Dn13 Summed SAR	Dn14 Summed SAR	Dn15 Summed SAR	
GSM850_Ant 0 TXD	0.970	1.459	1.538	1.579	1.695	1.725	1.506	1.327
GSM1900_Ant 0 TX1	0.989	1.478	1.557	1.598	1.624	1.744	1.525	1.346
WCDMA 8_Ant 0 TX1	0.992	1.481	1.560	1.601	1.627	1.747	1.528	1.349
WCDMA 4V_Ant 0 TX1	0.739	1.228	1.307	1.348	1.374	1.494	1.275	1.096
WCDMA 5V_Ant 0 TXD	0.532	1.021	1.100	1.141	1.167	1.287	1.068	0.889
LTE Band 7_Ant 0 TX1	0.675	1.164	1.243	1.284	1.310	1.430	1.211	1.032
LTE Band 12_Ant 0 TXD	0.340	0.829	0.908	0.949	0.975	1.095	0.876	0.697
LTE Band 13_Ant 0 TXD	0.525	1.014	1.093	1.134	1.160	1.280	1.061	0.882
LTE Band 14_Ant 0 TXD	0.530	1.019	1.098	1.139	1.165	1.285	1.066	0.887
LTE Band 25_Ant 0 TX1	0.847	1.336	1.415	1.456	1.482	1.602	1.383	1.204
LTE Band 26_Ant 0 TXD	0.570	1.059	1.138	1.179	1.205	1.325	1.106	0.927
LTE Band 30_Ant 0 TX1	0.825	1.314	1.393	1.434	1.460	1.580	1.361	1.182
LTE Band 41_Ant 0 TX1	0.538	1.027	1.106	1.147	1.173	1.293	1.074	0.895
LTE Band 66_Ant 0 TX1	0.565	1.054	1.133	1.174	1.200	1.320	1.101	0.922
LTE Band 71_Ant 0 TXD	0.214	0.703	0.782	0.823	0.849	0.969	0.750	0.571
FR1 n7_Ant 0 TX1	0.756	1.245	1.324	1.365	1.391	1.511	1.292	1.113
FR1 n12_Ant 0 TXD	0.345	0.834	0.913	0.954	0.980	1.100	0.881	0.702
FR1 n14_Ant 0 TXD	0.552	1.041	1.120	1.161	1.187	1.307	1.088	0.909
FR1 n25_Ant 0 TX1	0.722	1.211	1.290	1.331	1.357	1.477	1.258	1.079
FR1 n26_Ant 0 TXD	0.575	1.064	1.143	1.184	1.210	1.330	1.111	0.932
FR1 n30_Ant 0 TX1	0.734	1.223	1.302	1.343	1.369	1.489	1.270	1.091
FR1 n41_Ant 0 TX1	0.679	1.168	1.247	1.288	1.314	1.434	1.215	1.036
FR1 n66_Ant 0 TX1	0.630	1.119	1.198	1.239	1.265	1.385	1.166	0.987
FR1 n70_Ant 0 TX1	0.741	1.230	1.309	1.350	1.376	1.496	1.277	1.098
FR1 n71_Ant 0 TXD	0.253	0.742	0.821	0.862	0.888	1.008	0.789	0.610

SAR peak location (mm)			X (axis)	Y (axis)	Z (axis)	0	9	10	11	12	13	14	15
X (axis)	Y (axis)	Z (axis)	Exposure Position	WWAN SAR	LTE Band 25_Ant 5 Sub TX1	LTE Band 66_Ant 5 Sub TX1	FR1 n25_Ant 5 Sub TX1	FR1 n66_Ant 5 Sub TX1	FR1 n41_Ant 5 Sub TX1	FR1 n48_Ant 5 Sub TX1	FR1 n77_Ant 5 Sub TX1		
				Dn9 SPLSR Results	Dn10 SPLSR Results	Dn11 SPLSR Results	Dn12 SPLSR Results	Dn13 SPLSR Results	Dn14 SPLSR Results	Dn15 SPLSR Results			
-10.5	-83.6	-207	GSM850_Ant 0 TXD	0.970								0.02	
-5.6	-78.9	-207	GSM1900_Ant 0 TX1	0.989				0.02	0.02	0.02			
-4.6	-81.1	-207	WCDMA 8_Ant 0 TX1	0.992									
-7.9	-80.9	-207	WCDMA 4V_Ant 0 TX1	0.739				0.02	0.02	0.02			
-10	-82.1	-207	WCDMA 5V_Ant 0 TXD	0.532									
-13.5	-78.5	-207	LTE Band 7_Ant 0 TX1	0.675									
-14.5	-80.8	-207	LTE Band 12_Ant 0 TXD	0.340									
-11.4	-79.4	-207	LTE Band 13_Ant 0 TXD	0.525									
-14.7	-81.6	-207	LTE Band 14_Ant 0 TXD	0.530									
-6.1	-83.4	-207	LTE Band 25_Ant 0 TX1	0.847						0.01			
-13.4	-83.9	-207	LTE Band 26_Ant 0 TXD	0.570									
-11	-82	-207	LTE Band 30_Ant 0 TX1	0.825									
-12.5	-79.5	-207	LTE Band 41_Ant 0 TX1	0.538									
-5.4	-84.9	-207	LTE Band 66_Ant 0 TX1	0.565									
-18.2	-78.1	-207	LTE Band 71_Ant 0 TXD	0.214									
-6.5	-77.5	-207	FR1 n7_Ant 0 TX1	0.756									
-12.7	-84.6	-207	FR1 n12_Ant 0 TXD	0.345									
-11.7	-85.9	-207	FR1 n14_Ant 0 TXD	0.552									
-3.6	-83.1	-207	FR1 n25_Ant 0 TX1	0.722									
-10	-77.6	-207	FR1 n26_Ant 0 TXD	0.575									
-8.5	-77.1	-207	FR1 n30_Ant 0 TX1	0.734									
-8.3	-78.5	-207	FR1 n41_Ant 0 TX1	0.679									
-6.9	-79.9	-207	FR1 n66_Ant 0 TX1	0.630									
-10.4	-81.9	-207	FR1 n70_Ant 0 TX1	0.741									
-4.7	-78.3	-207	FR1 n71_Ant 0 TXD	0.253									



<Case 5>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Wavelength, and various SAR values (0.00 to 0.08) for different antenna configurations.

Table with columns for Position, Wavelength, and various SAR values (0.00 to 0.08) for different antenna configurations.

<Case 6>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Wavelength, and various SAR values (0.00 to 0.08) for different antenna configurations.

Table with columns for Position, Wavelength, and various SAR values (0.00 to 0.08) for different antenna configurations.

<Case 7>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Wavelength, and various SAR values (0.00 to 0.08) for different antenna configurations.

Table with columns for Position, Wavelength, and various SAR values (0.00 to 0.08) for different antenna configurations.



<Case 8>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Frequency, and SAR values for various antenna configurations (e.g., SAR Head, SAR Hand, SAR Body).

Table with columns for Position, Frequency, and SAR values for various antenna configurations (e.g., SAR Head, SAR Hand, SAR Body).

<Case 9>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Frequency, and SAR values for various antenna configurations (e.g., SAR Head, SAR Hand, SAR Body).

Table with columns for Position, Frequency, and SAR values for various antenna configurations (e.g., SAR Head, SAR Hand, SAR Body).



<Case 10>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Frequency, and various SAR values (0.050 to 0.700) for different antenna configurations.

Table with columns for Position, Frequency, and various SAR values (0.050 to 0.700) for different antenna configurations, including a sub-table for SAR values.

<Case 11>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Frequency, and various SAR values (0.050 to 0.700) for different antenna configurations.

Table with columns for Position, Frequency, and various SAR values (0.050 to 0.700) for different antenna configurations, including a sub-table for SAR values.



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<Case 12>

SPLSR calculation for summation SAR>1.6W/kg

Component	Frequency	Power Spectral Density	Bandwidth	Antenna Gain	Antenna Efficiency	Antenna Loss	Antenna Temperature	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor
Component	Frequency	Power Spectral Density	Bandwidth	Antenna Gain	Antenna Efficiency	Antenna Loss	Antenna Temperature	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor
Component	Frequency	Power Spectral Density	Bandwidth	Antenna Gain	Antenna Efficiency	Antenna Loss	Antenna Temperature	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor

Component	Frequency	Power Spectral Density	Bandwidth	Antenna Gain	Antenna Efficiency	Antenna Loss	Antenna Temperature	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor
Component	Frequency	Power Spectral Density	Bandwidth	Antenna Gain	Antenna Efficiency	Antenna Loss	Antenna Temperature	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor
Component	Frequency	Power Spectral Density	Bandwidth	Antenna Gain	Antenna Efficiency	Antenna Loss	Antenna Temperature	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor	Antenna Factor



<Case 13>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	2	9	10	11
	WWAN SAR	WLAN2.4GHz Ant 3	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Cheek	1g SAR (W/kg)			0.193	0.270	0.615
				0+1+2+9 Summed SAR	0+1+2+10 Summed SAR	0+1+2+11 Summed SAR
GSM850_Ant 1 TX1	0.750	0.204	0.220	1.367	1.444	1.789
WCDMA V_Ant 1 TX1	0.748	0.204	0.220	1.365	1.442	1.787
LTE Band 12_Ant 1 TX1	0.748	0.204	0.220	1.365	1.442	1.787
LTE Band 13_Ant 1 TX1	0.686	0.204	0.220	1.303	1.380	1.725
LTE Band 14_Ant 1 TX1	0.687	0.204	0.220	1.304	1.381	1.726
LTE Band 25_Ant 1 Sub TX0	0.734	0.204	0.220	1.351	1.428	1.773
LTE Band 26_Ant 1 TX1	0.722	0.204	0.220	1.339	1.416	1.761
LTE Band 66_Ant 1 Sub TX0	0.713	0.204	0.220	1.330	1.407	1.752
LTE Band 71_Ant 1 TX1	0.738	0.204	0.220	1.355	1.432	1.777
FR1 n12_Ant 1 TX1	0.750	0.204	0.220	1.367	1.444	1.789
FR1 n14_Ant 1 TX1	0.736	0.204	0.220	1.353	1.430	1.775
FR1 n25_Ant 1 Sub TX0	0.739	0.204	0.220	1.356	1.433	1.778
FR1 n26_Ant 1 TX1	0.701	0.204	0.220	1.318	1.395	1.740
FR1 n41_Ant 1 Sub TX0	0.739	0.204	0.220	1.356	1.433	1.778
FR1 n48_Ant 1 Sub TX0	0.793	0.204	0.220	1.410	1.487	1.832
FR1 n66_Ant 1 Sub TX0	0.740	0.204	0.220	1.357	1.434	1.779
FR1 n71_Ant 1 TX1	0.747	0.204	0.220	1.364	1.441	1.786
FR1 n77_Ant 1 Sub TX0	0.738	0.204	0.220	1.355	1.432	1.777

SAR peak location (mm)			X (axis)	59	47	53.2	51.1	51.8	
			Y (axis)	-327.6	-322.3	-241.8	-247.2	-247.7	
			Z (axis)	-175.9	-175.2	-177	-174.4	-174.4	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	1	2	9	10	11
				WWAN SAR	WLAN2.4GHz Ant 3	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
			Right Cheek	1g SAR (W/kg)			0.193	0.27	0.615
							0+1+2+9 SPLSR Results	0+1+2+10 SPLSR Results	0+1+2+11 SPLSR Results
21.9	-329.1	-174.6	GSM850_Ant 1 TX1	0.750	0.204	0.220			0.03
25.1	-334.9	-174.3	WCDMA V_Ant 1 TX1	0.748	0.204	0.220			0.03
16.8	-326.8	-174.3	LTE Band 12_Ant 1 TX1	0.748	0.204	0.220			0.03
22	-322.5	-174.4	LTE Band 13_Ant 1 TX1	0.686	0.204	0.220			0.03
20.5	-330.4	-174.4	LTE Band 14_Ant 1 TX1	0.687	0.204	0.220			0.03
19.1	-330.3	-174.3	LTE Band 25_Ant 1 Sub TX0	0.734	0.204	0.220			0.03
43.9	-327.9	-174.8	LTE Band 26_Ant 1 TX1	0.722	0.204	0.220			0.03
15.8	-331.7	-174.1	LTE Band 66_Ant 1 Sub TX0	0.713	0.204	0.220			0.03
19.3	-331.3	-174.3	LTE Band 71_Ant 1 TX1	0.738	0.204	0.220			0.03
14	-323.1	-174.2	FR1 n12_Ant 1 TX1	0.750	0.204	0.220			0.03
20.2	-327.7	-174.5	FR1 n14_Ant 1 TX1	0.736	0.204	0.220			0.03
18.2	-331.4	-174.2	FR1 n25_Ant 1 Sub TX0	0.739	0.204	0.220			0.03
22.6	-332.9	-174.4	FR1 n26_Ant 1 TX1	0.701	0.204	0.220			0.03
39	-331.2	-174.7	FR1 n41_Ant 1 Sub TX0	0.739	0.204	0.220			0.03
38	-339.8	-176.5	FR1 n48_Ant 1 Sub TX0	0.793	0.204	0.220			0.03
16.6	-327.8	-174.3	FR1 n66_Ant 1 Sub TX0	0.740	0.204	0.220			0.03
22.1	-330.9	-174.5	FR1 n71_Ant 1 TX1	0.747	0.204	0.220			0.03
12.6	-318.5	-174.1	FR1 n77_Ant 1 Sub TX0	0.738	0.204	0.220			0.03



<Case 14>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	2	9	10	11
	WWAN SAR	WLAN2.4GHz Ant 4	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Cheek	1g SAR (W/kg)			0.193	0.270	0.615
				0+1+2+9 Summed SAR	0+1+2+10 Summed SAR	0+1+2+11 Summed SAR
GSM850_Ant 1 TX1	0.750	0.031	0.220	1.194	1.271	1.616
WCDMA V_Ant 1 TX1	0.748	0.031	0.220	1.192	1.269	1.614
LTE Band 12_Ant 1 TX1	0.748	0.031	0.220	1.192	1.269	1.614
LTE Band 13_Ant 1 TX1	0.686	0.031	0.220	1.130	1.207	1.552
LTE Band 14_Ant 1 TX1	0.687	0.031	0.220	1.131	1.208	1.553
LTE Band 25_Ant 1 Sub TX0	0.734	0.031	0.220	1.178	1.255	1.600
LTE Band 26_Ant 1 TX1	0.722	0.031	0.220	1.166	1.243	1.588
LTE Band 66_Ant 1 Sub TX0	0.713	0.031	0.220	1.157	1.234	1.579
LTE Band 71_Ant 1 TX1	0.738	0.031	0.220	1.182	1.259	1.604
FR1 n12_Ant 1 TX1	0.750	0.031	0.220	1.194	1.271	1.616
FR1 n14_Ant 1 TX1	0.736	0.031	0.220	1.180	1.257	1.602
FR1 n25_Ant 1 Sub TX0	0.739	0.031	0.220	1.183	1.260	1.605
FR1 n26_Ant 1 TX1	0.701	0.031	0.220	1.145	1.222	1.567
FR1 n41_Ant 1 Sub TX0	0.739	0.031	0.220	1.183	1.260	1.605
FR1 n48_Ant 1 Sub TX0	0.793	0.031	0.220	1.237	1.314	1.659
FR1 n66_Ant 1 Sub TX0	0.740	0.031	0.220	1.184	1.261	1.606
FR1 n71_Ant 1 TX1	0.747	0.031	0.220	1.191	1.268	1.613
FR1 n77_Ant 1 Sub TX0	0.738	0.031	0.220	1.182	1.259	1.604

SAR peak location (mm)			X (axis)	0.2	47	53.2	51.1	51.8	
			Y (axis)	-280.3	-322.3	-241.8	-247.2	-247.7	
			Z (axis)	-168.6	-175.2	-177	-174.4	-174.4	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	1	2	9	10	11
				WWAN SAR	WLAN2.4GHz Ant 4	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
			Right Cheek	1g SAR (W/kg)			0.193	0.27	0.615
							0+1+2+9 SPLSR Results	0+1+2+10 SPLSR Results	0+1+2+11 SPLSR Results
21.9	-329.1	-174.6	GSM850_Ant 1 TX1	0.750	0.031	0.220			0.03
25.1	-334.9	-174.3	WCDMA V_Ant 1 TX1	0.748	0.031	0.220			0.03
16.8	-326.8	-174.3	LTE Band 12_Ant 1 TX1	0.748	0.031	0.220			0.03
22	-322.5	-174.4	LTE Band 13_Ant 1 TX1	0.686	0.031	0.220			
20.5	-330.4	-174.4	LTE Band 14_Ant 1 TX1	0.687	0.031	0.220			
19.1	-330.3	-174.3	LTE Band 25_Ant 1 Sub TX0	0.734	0.031	0.220			0.03
43.9	-327.9	-174.8	LTE Band 26_Ant 1 TX1	0.722	0.031	0.220			
15.8	-331.7	-174.1	LTE Band 66_Ant 1 Sub TX0	0.713	0.031	0.220			
19.3	-331.3	-174.3	LTE Band 71_Ant 1 TX1	0.738	0.031	0.220			0.03
14	-323.1	-174.2	FR1 n12_Ant 1 TX1	0.750	0.031	0.220			0.03
20.2	-327.7	-174.5	FR1 n14_Ant 1 TX1	0.736	0.031	0.220			0.03
18.2	-331.4	-174.2	FR1 n25_Ant 1 Sub TX0	0.739	0.031	0.220			0.03
22.6	-332.9	-174.4	FR1 n26_Ant 1 TX1	0.701	0.031	0.220			
39	-331.2	-174.7	FR1 n41_Ant 1 Sub TX0	0.739	0.031	0.220			0.03
38	-339.8	-176.5	FR1 n48_Ant 1 Sub TX0	0.793	0.031	0.220			0.03
16.6	-327.8	-174.3	FR1 n66_Ant 1 Sub TX0	0.740	0.031	0.220			0.03
22.1	-330.9	-174.5	FR1 n71_Ant 1 TX1	0.747	0.031	0.220			0.03
12.6	-318.5	-174.1	FR1 n77_Ant 1 Sub TX0	0.738	0.031	0.220			0.03



<Case 15>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	2	9	10	11
	WWAN SAR	WLAN2.4GHz Ant 4+3	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Cheek	1g SAR (W/kg)			0.193	0.270	0.615
				0+1+2+9 Summed SAR	0+1+2+10 Summed SAR	0+1+2+11 Summed SAR
GSM850_Ant 1 TX1	0.750	0.158	0.220	1.321	1.398	1.743
WCDMA V_Ant 1 TX1	0.748	0.158	0.220	1.319	1.396	1.741
LTE Band 12_Ant 1 TX1	0.748	0.158	0.220	1.319	1.396	1.741
LTE Band 13_Ant 1 TX1	0.686	0.158	0.220	1.257	1.334	1.679
LTE Band 14_Ant 1 TX1	0.687	0.158	0.220	1.258	1.335	1.680
LTE Band 25_Ant 1 Sub TX0	0.734	0.158	0.220	1.305	1.382	1.727
LTE Band 26_Ant 1 TX1	0.722	0.158	0.220	1.293	1.370	1.715
LTE Band 66_Ant 1 Sub TX0	0.713	0.158	0.220	1.284	1.361	1.706
LTE Band 71_Ant 1 TX1	0.738	0.158	0.220	1.309	1.386	1.731
FR1 n12_Ant 1 TX1	0.750	0.158	0.220	1.321	1.398	1.743
FR1 n14_Ant 1 TX1	0.736	0.158	0.220	1.307	1.384	1.729
FR1 n25_Ant 1 Sub TX0	0.739	0.158	0.220	1.310	1.387	1.732
FR1 n26_Ant 1 TX1	0.701	0.158	0.220	1.272	1.349	1.694
FR1 n41_Ant 1 Sub TX0	0.739	0.158	0.220	1.310	1.387	1.732
FR1 n48_Ant 1 Sub TX0	0.793	0.158	0.220	1.364	1.441	1.786
FR1 n66_Ant 1 Sub TX0	0.740	0.158	0.220	1.311	1.388	1.733
FR1 n71_Ant 1 TX1	0.747	0.158	0.220	1.318	1.395	1.740
FR1 n77_Ant 1 Sub TX0	0.738	0.158	0.220	1.309	1.386	1.731

SAR peak location (mm)			X (axis)	56.4	47	53.2	51.1	51.8	
			Y (axis)	-329.2	-322.3	-241.8	-247.2	-247.7	
			Z (axis)	-176.2	-175.2	-177	-174.4	-174.4	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	1	2	9	10	11
				WWAN SAR	WLAN2.4GHz Ant 4+3	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
			Right Cheek	1g SAR (W/kg)			0.193	0.27	0.615
							0+1+2+9 SPLSR Results	0+1+2+10 SPLSR Results	0+1+2+11 SPLSR Results
21.9	-329.1	-174.6	GSM850_Ant 1 TX1	0.750	0.158	0.220			0.04
25.1	-334.9	-174.3	WCDMA V_Ant 1 TX1	0.748	0.158	0.220			0.04
16.8	-326.8	-174.3	LTE Band 12_Ant 1 TX1	0.748	0.158	0.220			0.04
22	-322.5	-174.4	LTE Band 13_Ant 1 TX1	0.686	0.158	0.220			0.04
20.5	-330.4	-174.4	LTE Band 14_Ant 1 TX1	0.687	0.158	0.220			0.04
19.1	-330.3	-174.3	LTE Band 25_Ant 1 Sub TX0	0.734	0.158	0.220			0.04
43.9	-327.9	-174.8	LTE Band 26_Ant 1 TX1	0.722	0.158	0.220			0.04
15.8	-331.7	-174.1	LTE Band 66_Ant 1 Sub TX0	0.713	0.158	0.220			0.04
19.3	-331.3	-174.3	LTE Band 71_Ant 1 TX1	0.738	0.158	0.220			0.04
14	-323.1	-174.2	FR1 n12_Ant 1 TX1	0.750	0.158	0.220			0.04
20.2	-327.7	-174.5	FR1 n14_Ant 1 TX1	0.736	0.158	0.220			0.04
18.2	-331.4	-174.2	FR1 n25_Ant 1 Sub TX0	0.739	0.158	0.220			0.04
22.6	-332.9	-174.4	FR1 n26_Ant 1 TX1	0.701	0.158	0.220			0.04
39	-331.2	-174.7	FR1 n41_Ant 1 Sub TX0	0.739	0.158	0.220			0.04
38	-339.8	-176.5	FR1 n48_Ant 1 Sub TX0	0.793	0.158	0.220			0.04
16.6	-327.8	-174.3	FR1 n66_Ant 1 Sub TX0	0.740	0.158	0.220			0.04
22.1	-330.9	-174.5	FR1 n71_Ant 1 TX1	0.747	0.158	0.220			0.04
12.6	-318.5	-174.1	FR1 n77_Ant 1 Sub TX0	0.738	0.158	0.220			0.04



<Case 16>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	2	7	9	10	11
	WWAN SAR	WLAN5/6GHz Ant 4+3	Bluetooth Ant 3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Cheek	1g SAR (W/kg)			0.193	0.270	0.615
				0+2+7+9 Summed SAR	0+2+7+10 Summed SAR	0+2+7+11 Summed SAR
GSM850_Ant 1 TX1	0.750	0.220	0.203	1.366	1.443	1.788
WCDMA V_Ant 1 TX1	0.748	0.220	0.203	1.364	1.441	1.786
LTE Band 12_Ant 1 TX1	0.748	0.220	0.203	1.364	1.441	1.786
LTE Band 13_Ant 1 TX1	0.686	0.220	0.203	1.302	1.379	1.724
LTE Band 14_Ant 1 TX1	0.687	0.220	0.203	1.303	1.380	1.725
LTE Band 25_Ant 1 Sub TX0	0.734	0.220	0.203	1.350	1.427	1.772
LTE Band 26_Ant 1 TX1	0.722	0.220	0.203	1.338	1.415	1.760
LTE Band 66_Ant 1 Sub TX0	0.713	0.220	0.203	1.329	1.406	1.751
LTE Band 71_Ant 1 TX1	0.738	0.220	0.203	1.354	1.431	1.776
FR1 n12_Ant 1 TX1	0.750	0.220	0.203	1.366	1.443	1.788
FR1 n14_Ant 1 TX1	0.736	0.220	0.203	1.352	1.429	1.774
FR1 n25_Ant 1 Sub TX0	0.739	0.220	0.203	1.355	1.432	1.777
FR1 n26_Ant 1 TX1	0.701	0.220	0.203	1.317	1.394	1.739
FR1 n41_Ant 1 Sub TX0	0.739	0.220	0.203	1.355	1.432	1.777
FR1 n48_Ant 1 Sub TX0	0.793	0.220	0.203	1.409	1.486	1.831
FR1 n66_Ant 1 Sub TX0	0.740	0.220	0.203	1.356	1.433	1.778
FR1 n71_Ant 1 TX1	0.747	0.220	0.203	1.363	1.440	1.785
FR1 n77_Ant 1 Sub TX0	0.738	0.220	0.203	1.354	1.431	1.776

SAR peak location (mm)			X (axis)	47	53.3	53.2	51.1	51.8	
			Y (axis)	-322.3	-324.9	-241.8	-247.2	-247.7	
			Z (axis)	-175.2	-174.2	-177	-174.4	-174.4	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	2	7	9	10	11
				WWAN SAR	WLAN5/6GHz Ant 4+3	Bluetooth Ant 3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
			Right Cheek	1g SAR (W/kg)			0.193	0.27	0.615
							0+2+7+9 SPLSR Results	0+2+7+10 SPLSR Results	0+2+7+11 SPLSR Results
21.9	-329.1	-174.6	GSM850_Ant 1 TX1	0.750	0.220	0.203			0.03
25.1	-334.9	-174.3	WCDMA V_Ant 1 TX1	0.748	0.220	0.203			0.03
16.8	-326.8	-174.3	LTE Band 12_Ant 1 TX1	0.748	0.220	0.203			0.03
22	-322.5	-174.4	LTE Band 13_Ant 1 TX1	0.686	0.220	0.203			0.03
20.5	-330.4	-174.4	LTE Band 14_Ant 1 TX1	0.687	0.220	0.203			0.03
19.1	-330.3	-174.3	LTE Band 25_Ant 1 Sub TX0	0.734	0.220	0.203			0.03
43.9	-327.9	-174.8	LTE Band 26_Ant 1 TX1	0.722	0.220	0.203			0.03
15.8	-331.7	-174.1	LTE Band 66_Ant 1 Sub TX0	0.713	0.220	0.203			0.03
19.3	-331.3	-174.3	LTE Band 71_Ant 1 TX1	0.738	0.220	0.203			0.03
14	-323.1	-174.2	FR1 n12_Ant 1 TX1	0.750	0.220	0.203			0.03
20.2	-327.7	-174.5	FR1 n14_Ant 1 TX1	0.736	0.220	0.203			0.03
18.2	-331.4	-174.2	FR1 n25_Ant 1 Sub TX0	0.739	0.220	0.203			0.03
22.6	-332.9	-174.4	FR1 n26_Ant 1 TX1	0.701	0.220	0.203			0.03
39	-331.2	-174.7	FR1 n41_Ant 1 Sub TX0	0.739	0.220	0.203			0.03
38	-339.8	-176.5	FR1 n48_Ant 1 Sub TX0	0.793	0.220	0.203			0.03
16.6	-327.8	-174.3	FR1 n66_Ant 1 Sub TX0	0.740	0.220	0.203			0.03
22.1	-330.9	-174.5	FR1 n71_Ant 1 TX1	0.747	0.220	0.203			0.03
12.6	-318.5	-174.1	FR1 n77_Ant 1 Sub TX0	0.738	0.220	0.203			0.03



<Case 17>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	2	7	9	10	11
	WWAN SAR	WLAN5/6GHz Ant 4+3	Bluetooth Ant 4	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Cheek	1g SAR (W/kg)			0.193	0.270	0.615
				0+2+7+9 Summed SAR	0+2+7+10 Summed SAR	0+2+7+11 Summed SAR
GSM850_Ant 1 TX1	0.750	0.220	0.056	1.219	1.296	1.641
WCDMA V_Ant 1 TX1	0.748	0.220	0.056	1.217	1.294	1.639
LTE Band 12_Ant 1 TX1	0.748	0.220	0.056	1.217	1.294	1.639
LTE Band 13_Ant 1 TX1	0.686	0.220	0.056	1.155	1.232	1.577
LTE Band 14_Ant 1 TX1	0.687	0.220	0.056	1.156	1.233	1.578
LTE Band 25_Ant 1 Sub TX0	0.734	0.220	0.056	1.203	1.280	1.625
LTE Band 26_Ant 1 TX1	0.722	0.220	0.056	1.191	1.268	1.613
LTE Band 66_Ant 1 Sub TX0	0.713	0.220	0.056	1.182	1.259	1.604
LTE Band 71_Ant 1 TX1	0.738	0.220	0.056	1.207	1.284	1.629
FR1 n12_Ant 1 TX1	0.750	0.220	0.056	1.219	1.296	1.641
FR1 n14_Ant 1 TX1	0.736	0.220	0.056	1.205	1.282	1.627
FR1 n25_Ant 1 Sub TX0	0.739	0.220	0.056	1.208	1.285	1.630
FR1 n26_Ant 1 TX1	0.701	0.220	0.056	1.170	1.247	1.592
FR1 n41_Ant 1 Sub TX0	0.739	0.220	0.056	1.208	1.285	1.630
FR1 n48_Ant 1 Sub TX0	0.793	0.220	0.056	1.262	1.339	1.684
FR1 n66_Ant 1 Sub TX0	0.740	0.220	0.056	1.209	1.286	1.631
FR1 n71_Ant 1 TX1	0.747	0.220	0.056	1.216	1.293	1.638
FR1 n77_Ant 1 Sub TX0	0.738	0.220	0.056	1.207	1.284	1.629

SAR peak location (mm)			X (axis)	47	1.7	53.2	51.1	51.8	
			Y (axis)	-322.3	-278.3	-241.8	-247.2	-247.7	
			Z (axis)	-175.2	-168.6	-177	-174.4	-174.4	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	2	7	9	10	11
				WWAN SAR	WLAN5/6GHz Ant 4+3	Bluetooth Ant 4	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
			Right Cheek	1g SAR (W/kg)			0.193	0.27	0.615
							0+2+7+9 SPLSR Results	0+2+7+10 SPLSR Results	0+2+7+11 SPLSR Results
21.9	-329.1	-174.6	GSM850_Ant 1 TX1	0.750	0.220	0.056			0.04
25.1	-334.9	-174.3	WCDMA V_Ant 1 TX1	0.748	0.220	0.056			0.04
16.8	-326.8	-174.3	LTE Band 12_Ant 1 TX1	0.748	0.220	0.056			0.04
22	-322.5	-174.4	LTE Band 13_Ant 1 TX1	0.686	0.220	0.056			
20.5	-330.4	-174.4	LTE Band 14_Ant 1 TX1	0.687	0.220	0.056			
19.1	-330.3	-174.3	LTE Band 25_Ant 1 Sub TX0	0.734	0.220	0.056			0.04
43.9	-327.9	-174.8	LTE Band 26_Ant 1 TX1	0.722	0.220	0.056			0.03
15.8	-331.7	-174.1	LTE Band 66_Ant 1 Sub TX0	0.713	0.220	0.056			0.03
19.3	-331.3	-174.3	LTE Band 71_Ant 1 TX1	0.738	0.220	0.056			0.04
14	-323.1	-174.2	FR1 n12_Ant 1 TX1	0.750	0.220	0.056			0.04
20.2	-327.7	-174.5	FR1 n14_Ant 1 TX1	0.736	0.220	0.056			0.04
18.2	-331.4	-174.2	FR1 n25_Ant 1 Sub TX0	0.739	0.220	0.056			0.04
22.6	-332.9	-174.4	FR1 n26_Ant 1 TX1	0.701	0.220	0.056			
39	-331.2	-174.7	FR1 n41_Ant 1 Sub TX0	0.739	0.220	0.056			0.04
38	-339.8	-176.5	FR1 n48_Ant 1 Sub TX0	0.793	0.220	0.056			0.04
16.6	-327.8	-174.3	FR1 n66_Ant 1 Sub TX0	0.740	0.220	0.056			0.04
22.1	-330.9	-174.5	FR1 n71_Ant 1 TX1	0.747	0.220	0.056			0.04
12.6	-318.5	-174.1	FR1 n77_Ant 1 Sub TX0	0.738	0.220	0.056			0.04



<Case 18>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	2	7	9	10	11
	WWAN SAR	WLAN5/6GHz Ant 4+3	Bluetooth Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Cheek	1g SAR (W/kg)			0.193	0.270	0.615
				0+2+7+9 Summed SAR	0+2+7+10 Summed SAR	0+2+7+11 Summed SAR
GSM850_Ant 1 TX1	0.750	0.220	0.208	1.371	1.448	1.793
WCDMA V_Ant 1 TX1	0.748	0.220	0.208	1.369	1.446	1.791
LTE Band 12_Ant 1 TX1	0.748	0.220	0.208	1.369	1.446	1.791
LTE Band 13_Ant 1 TX1	0.686	0.220	0.208	1.307	1.384	1.729
LTE Band 14_Ant 1 TX1	0.687	0.220	0.208	1.308	1.385	1.730
LTE Band 25_Ant 1 Sub TX0	0.734	0.220	0.208	1.355	1.432	1.777
LTE Band 26_Ant 1 TX1	0.722	0.220	0.208	1.343	1.420	1.765
LTE Band 66_Ant 1 Sub TX0	0.713	0.220	0.208	1.334	1.411	1.756
LTE Band 71_Ant 1 TX1	0.738	0.220	0.208	1.359	1.436	1.781
FR1 n12_Ant 1 TX1	0.750	0.220	0.208	1.371	1.448	1.793
FR1 n14_Ant 1 TX1	0.736	0.220	0.208	1.357	1.434	1.779
FR1 n25_Ant 1 Sub TX0	0.739	0.220	0.208	1.360	1.437	1.782
FR1 n26_Ant 1 TX1	0.701	0.220	0.208	1.322	1.399	1.744
FR1 n41_Ant 1 Sub TX0	0.739	0.220	0.208	1.360	1.437	1.782
FR1 n48_Ant 1 Sub TX0	0.793	0.220	0.208	1.414	1.491	1.836
FR1 n66_Ant 1 Sub TX0	0.740	0.220	0.208	1.361	1.438	1.783
FR1 n71_Ant 1 TX1	0.747	0.220	0.208	1.368	1.445	1.790
FR1 n77_Ant 1 Sub TX0	0.738	0.220	0.208	1.359	1.436	1.781

SAR peak location (mm)			X (axis)	47	53	53.2	51.1	51.8	
			Y (axis)	-322.3	-327.3	-241.8	-247.2	-247.7	
			Z (axis)	-175.2	-173.9	-177	-174.4	-174.4	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	2	7	9	10	11
			Right Cheek	WWAN SAR	WLAN5/6GHz Ant 4+3	Bluetooth Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
				1g SAR (W/kg)			0.193	0.27	0.615
							0+2+7+9 SPLSR Results	0+2+7+10 SPLSR Results	0+2+7+11 SPLSR Results
21.9	-329.1	-174.6	GSM850_Ant 1 TX1	0.750	0.220	0.208			0.04
25.1	-334.9	-174.3	WCDMA V_Ant 1 TX1	0.748	0.220	0.208			0.04
16.8	-326.6	-174.3	LTE Band 12_Ant 1 TX1	0.748	0.220	0.208			0.04
22	-332.5	-174.4	LTE Band 13_Ant 1 TX1	0.686	0.220	0.208			0.04
20.5	-330.4	-174.4	LTE Band 14_Ant 1 TX1	0.687	0.220	0.208			0.04
19.1	-330.3	-174.3	LTE Band 25_Ant 1 Sub TX0	0.734	0.220	0.208			0.04
43.9	-327.9	-174.8	LTE Band 26_Ant 1 TX1	0.722	0.220	0.208			0.04
15.8	-331.7	-174.1	LTE Band 66_Ant 1 Sub TX0	0.713	0.220	0.208			0.04
19.3	-331.3	-174.3	LTE Band 71_Ant 1 TX1	0.738	0.220	0.208			0.04
14	-323.1	-174.2	FR1 n12_Ant 1 TX1	0.750	0.220	0.208			0.04
20.2	-327.7	-174.5	FR1 n14_Ant 1 TX1	0.736	0.220	0.208			0.04
18.2	-331.4	-174.2	FR1 n25_Ant 1 Sub TX0	0.739	0.220	0.208			0.04
22.6	-332.9	-174.4	FR1 n26_Ant 1 TX1	0.701	0.220	0.208			0.04
39	-331.2	-174.7	FR1 n41_Ant 1 Sub TX0	0.739	0.220	0.208			0.04
38	-339.8	-176.5	FR1 n48_Ant 1 Sub TX0	0.793	0.220	0.208			0.04
16.6	-327.8	-174.3	FR1 n66_Ant 1 Sub TX0	0.740	0.220	0.208			0.04
22.1	-330.9	-174.5	FR1 n71_Ant 1 TX1	0.747	0.220	0.208			0.04
12.6	-318.5	-174.1	FR1 n77_Ant 1 Sub TX0	0.738	0.220	0.208			0.04



<Case 19>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	2	7	9	10	11
	WWAN SAR	WLANS/6GHz Ant 4+3	Thread Ant 3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Cheek	1g SAR (W/kg)			0.193	0.270	0.615
				0+2+7+9 Summed SAR	0+2+7+10 Summed SAR	0+2+7+11 Summed SAR
GSM850_Ant 1 TX1	0.750	0.220	0.216	1.379	1.456	1.801
WCDMA V_Ant 1 TX1	0.748	0.220	0.216	1.377	1.454	1.799
LTE Band 12_Ant 1 TX1	0.748	0.220	0.216	1.377	1.454	1.799
LTE Band 13_Ant 1 TX1	0.686	0.220	0.216	1.315	1.392	1.737
LTE Band 14_Ant 1 TX1	0.687	0.220	0.216	1.316	1.393	1.738
LTE Band 25_Ant 1 Sub TX0	0.734	0.220	0.216	1.363	1.440	1.785
LTE Band 26_Ant 1 TX1	0.722	0.220	0.216	1.351	1.428	1.773
LTE Band 66_Ant 1 Sub TX0	0.713	0.220	0.216	1.342	1.419	1.764
LTE Band 71_Ant 1 TX1	0.738	0.220	0.216	1.367	1.444	1.789
FR1 n12_Ant 1 TX1	0.750	0.220	0.216	1.379	1.456	1.801
FR1 n14_Ant 1 TX1	0.736	0.220	0.216	1.365	1.442	1.787
FR1 n25_Ant 1 Sub TX0	0.739	0.220	0.216	1.368	1.445	1.790
FR1 n26_Ant 1 TX1	0.701	0.220	0.216	1.330	1.407	1.752
FR1 n41_Ant 1 Sub TX0	0.739	0.220	0.216	1.368	1.445	1.790
FR1 n48_Ant 1 Sub TX0	0.793	0.220	0.216	1.422	1.499	1.844
FR1 n66_Ant 1 Sub TX0	0.740	0.220	0.216	1.369	1.446	1.791
FR1 n71_Ant 1 TX1	0.747	0.220	0.216	1.376	1.453	1.798
FR1 n77_Ant 1 Sub TX0	0.738	0.220	0.216	1.367	1.444	1.789

SAR peak location (mm)			X (axis)	47	54.8	53.2	51.1	51.8	
			Y (axis)	-322.3	-327.6	-241.8	-247.2	-247.7	
			Z (axis)	-175.2	-173.8	-177	-174.4	-174.4	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	2	7	9	10	11
				WWAN SAR	WLANS/6GHz Ant 4+3	Thread Ant 3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
			Right Cheek	1g SAR (W/kg)			0.193	0.27	0.615
							0+2+7+9 SPLSR Results	0+2+7+10 SPLSR Results	0+2+7+11 SPLSR Results
21.9	-329.1	-174.6	GSM850_Ant 1 TX1	0.750	0.220	0.216			0.03
25.1	-334.9	-174.3	WCDMA V_Ant 1 TX1	0.748	0.220	0.216			0.03
16.8	-326.8	-174.3	LTE Band 12_Ant 1 TX1	0.748	0.220	0.216			0.03
22	-332.5	-174.4	LTE Band 13_Ant 1 TX1	0.686	0.220	0.216			0.03
20.5	-330.4	-174.4	LTE Band 14_Ant 1 TX1	0.687	0.220	0.216			0.03
19.1	-330.3	-174.3	LTE Band 25_Ant 1 Sub TX0	0.734	0.220	0.216			0.03
43.9	-327.9	-174.8	LTE Band 26_Ant 1 TX1	0.722	0.220	0.216			0.03
15.8	-331.7	-174.1	LTE Band 66_Ant 1 Sub TX0	0.713	0.220	0.216			0.03
19.3	-331.3	-174.3	LTE Band 71_Ant 1 TX1	0.738	0.220	0.216			0.03
14	-323.1	-174.2	FR1 n12_Ant 1 TX1	0.750	0.220	0.216			0.03
20.2	-327.7	-174.5	FR1 n14_Ant 1 TX1	0.736	0.220	0.216			0.03
18.2	-331.4	-174.2	FR1 n25_Ant 1 Sub TX0	0.739	0.220	0.216			0.03
22.6	-332.9	-174.4	FR1 n26_Ant 1 TX1	0.701	0.220	0.216			0.03
39	-331.2	-174.7	FR1 n41_Ant 1 Sub TX0	0.739	0.220	0.216			0.03
38	-339.8	-176.5	FR1 n48_Ant 1 Sub TX0	0.793	0.220	0.216			0.03
16.6	-327.8	-174.3	FR1 n66_Ant 1 Sub TX0	0.740	0.220	0.216			0.03
22.1	-330.9	-174.5	FR1 n71_Ant 1 TX1	0.747	0.220	0.216			0.03
12.6	-318.5	-174.1	FR1 n77_Ant 1 Sub TX0	0.738	0.220	0.216			0.03



<Case 26>

SPLSR calculation for summation SAR>1.6W/kg

Case No.	Case Name	Case Type	Case Description	Case Status	Case Date	Case Time	Case Location	Case Operator	Case Tester	Case Reviewer	Case Approved	Case Comments
001	Case 26	Case 26	Case 26	Case 26	Case 26	Case 26	Case 26	Case 26	Case 26	Case 26	Case 26	Case 26

<Case 27>

SPLSR calculation for summation SAR>1.6W/kg

Case No.	Case Name	Case Type	Case Description	Case Status	Case Date	Case Time	Case Location	Case Operator	Case Tester	Case Reviewer	Case Approved	Case Comments
001	Case 27	Case 27	Case 27	Case 27	Case 27	Case 27	Case 27	Case 27	Case 27	Case 27	Case 27	Case 27

Combination	SAR	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0	44.5	1.31	0.03	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0				
WLAN2.4G Ant 3	0.123	12.5	37.0	-207.0	127.4	0.61	0.00	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
WLAN2.4G Ant 3	0.123	12.5	37.0	-207.0	122.8	0.95	0.01	Not required
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0				
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0	144.0	0.74	0.00	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0	144.9	1.08	0.01	Not required
WLAN2.4G Ant 3	0.123	12.5	37.0	-207.0				
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0	25.8	0.38	0.01	Not required
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0				
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0	150.9	0.70	0.00	Not required
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0				
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0	144.0	0.74	0.00	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0	160.7	1.04	0.01	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0	144.9	1.08	0.01	Not required
WLAN2.4G Ant 3	0.123	12.5	37.0	-207.0				
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0	55.0	0.34	0.00	Not required
WLAN2.4G Ant 3	0.123	12.5	37.0	-207.0				
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0	25.8	0.38	0.01	Not required



<Case 28>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns: Position, Frequency, and SAR values for various antennas (Ant 0, Ant 2, Ant 4, Ant 3(4), Ant 3(3)) across multiple frequencies (900MHz, 1.9GHz, 2.4GHz, 5.8GHz).

Table with columns: Combination, SAR, X, Y, Z, 3D distance (mm), Summed SAR (W/kg), SPLSR Results, Simultaneous SAR. Lists combinations of antennas and their corresponding SAR values.



<Case 29>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for antenna combinations (e.g., GSM850, GSM900, GSM1900) and SAR values for various body parts (head, torso, hand, etc.).

Table with columns: Combination, SAR, X, Y, Z, 3D distance (mm), Summed SAR (W/kg), SPLSR Results, Simultaneous SAR. Lists various antenna combinations and their corresponding SAR values.



<Case 30>

SPLSR calculation for summation SAR>1.6W/kg

Position Point	Frequency	Max SAR (W/kg)	Summation SAR	SAR (W/kg)		SAR (W/kg)		SAR (W/kg)		SAR (W/kg)		SAR (W/kg)		SAR (W/kg)		SAR (W/kg)		SAR (W/kg)	
				0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
050MHz Ant 0 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
050MHz Ant 1 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
050MHz Ant 2 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
050MHz Ant 3 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
150MHz Ant 0 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
150MHz Ant 1 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
150MHz Ant 2 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
150MHz Ant 3 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
190MHz Ant 0 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
190MHz Ant 1 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
190MHz Ant 2 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
190MHz Ant 3 70	0.050	0.050	0.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Combination	SAR	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Max WWAN Ant 2	0.482	-41.9	-62.3	-207.0	37.9	1.31	0.04	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
Max WWAN Ant 2	0.482	-47.0	-57.8	-207.0				
Bluetooth Ant 3	0.173	14.0	36.0	-207.0	111.9	0.66	0.00	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
Bluetooth Ant 3	0.173	14.0	36.0	-207.0	122.1	1.00	0.01	Not required
Max WWAN Ant 2	0.482	-47.0	-57.8	-207.0				
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0	128.3	0.74	0.00	Not required
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0				
Bluetooth Ant 3	0.173	14.0	36.0	-207.0				
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0	144.9	1.08	0.01	Not required
Bluetooth Ant 3	0.173	14.0	36.0	-207.0				
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0	27.3	0.43	0.01	Not required
Max WWAN Ant 2	0.482	-47.0	-57.8	-207.0				
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0				
Max WWAN Ant 2	0.482	-47.0	-57.8	-207.0	135.4	0.70	0.00	Not required
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0	160.7	1.04	0.01	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0				
Bluetooth Ant 3	0.173	14.0	36.0	-207.0	144.9	1.08	0.01	Not required
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0				
Bluetooth Ant 3	0.173	14.0	36.0	-207.0				
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0	56.8	0.39	0.00	Not required
Bluetooth Ant 3	0.173	14.0	36.0	-207.0				
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0	27.3	0.43	0.01	Not required
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0				



<Case 31>

SPLSR calculation for summation SAR>1.6W/kg

Antenna	Frequency	Power	Gain	Efficiency	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi
ISM Ant 1	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 2	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 3	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 4	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 5	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 6	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 7	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 8	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 9	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 10	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 11	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 12	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 13	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 14	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 15	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 16	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 17	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 18	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 19	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISM Ant 20	2.45	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Combination	SAR	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Max WWAN Ant 2	0.482	-42.4	-64.8	-207.0	37.0	1.31	0.04	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
Max WWAN Ant 2	0.482	-54.6	-55.9	-207.0	128.2	0.69	0.00	Not required
Bluetooth Ant 4	0.204	-64.0	72.0	-207.0				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0	164.5	1.03	0.01	Not required
Bluetooth Ant 4	0.204	-64.0	72.0	-207.0				
Max WWAN Ant 2	0.482	-47.0	-57.8	-207.0	128.3	0.74	0.00	Not required
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0	144.9	1.08	0.01	Not required
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0				
Bluetooth Ant 4	0.204	-64.0	72.0	-207.0	38.4	0.46	0.01	Not required
WLAN5/6G Ant 4+3	0.253	-25.9	76.4	-207.0				
Max WWAN Ant 2	0.482	-54.6	-55.9	-207.0	135.4	0.70	0.00	Not required
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0				
Max WWAN Ant 2	0.482	-47.0	-57.8	-207.0	128.3	0.74	0.00	Not required
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0	160.7	1.04	0.01	Not required
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0	144.9	1.08	0.01	Not required
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0				
Bluetooth Ant 4	0.204	-64.0	72.0	-207.0	38.4	0.42	0.01	Not required
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0				
Bluetooth Ant 4	0.204	-64.0	72.0	-207.0	67.3	0.46	0.00	Not required
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0				



<Case 32>

SPLSR calculation for summation SAR>1.6W/kg

Combin. Position	Frequency	Max SAR (W/kg)	CARRIER ANT 2		CARRIER ANT 0		CARRIER ANT 2		CARRIER ANT 0		CARRIER ANT 2		CARRIER ANT 0		CARRIER ANT 2		CARRIER ANT 0		
			0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825
0.825 Ant 2	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825
0.825 Ant 0	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825

Combination	SAR	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0	44.5	1.31	0.03	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0	128.3	0.60	0.00	Not required
Bluetooth Ant 4+3	0.119	18.0	34.5	-210.2				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
Bluetooth Ant 4+3	0.119	18.0	34.5	-210.2	121.5	0.94	0.01	Not required
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0				
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0	144.9	1.08	0.01	Not required
Bluetooth Ant 4+3	0.119	18.0	34.5	-210.2				
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0				
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0				
Bluetooth Ant 4+3(4)	0.090	-58.0	72.0	-207.0				
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0	144.1	0.57	0.00	Not required
Bluetooth Ant 4+3(3)	0.119	18.0	34.5	-210.2				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
Bluetooth Ant 4+3(4)	0.090	-58.0	72.0	-207.0	162.7	0.92	0.01	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
Bluetooth Ant 4+3(3)	0.119	18.0	34.5	-210.2	121.5	0.94	0.01	Not required
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0				
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0				
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0	150.9	0.70	0.00	Not required
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0				
Bluetooth Ant 4+3(4)	0.090	-58.0	72.0	-207.0				
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0	32.4	0.31	0.01	Not required
Bluetooth Ant 4+3(3)	0.119	18.0	34.5	-210.2				
WLAN5/6G Ant 4+3(4)	0.216	-25.9	76.4	-207.0				
Bluetooth Ant 4+3(4)	0.090	-58.0	72.0	-207.0				
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0				
Bluetooth Ant 4+3(3)	0.119	18.0	34.5	-210.2				
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0	61.3	0.34	0.00	Not required
Bluetooth Ant 4+3(3)	0.119	18.0	34.5	-210.2				
WLAN5/6G Ant 4+3(3)	0.253	2.3	60.7	-207.0	30.7	0.37	0.01	Not required



<Case 33>

SPLSR calculation for summation SAR>1.6W/kg

Position	Frequency	Power	Distance	Antenna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
0.000	0.000	0.000	0.000	0.000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Combination	SAR	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
		X	Y	Z				
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0	44.5	1.31	0.03	Not required
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0				
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0	144.0	0.74	0.00	Not required
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0	144.9	1.08	0.01	Not required
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0				
Max WWAN Ant 2	0.482	-47.0	-57.8	-207.0	113.1	0.63	0.00	Not required
Thread Ant 3	0.144	17.5	35.0	-210.2				
Max WWAN Ant 0	0.825	-10.5	-83.6	-207.0	121.9	0.97	0.01	Not required
Thread Ant 3	0.144	17.5	35.0	-210.2				
WLAN5/6G Ant 4+3	0.253	2.3	60.7	-207.0	30.0	0.40	0.01	Not required
Thread Ant 3	0.144	17.5	35.0	-210.2				

<Case 34>

SPLSR calculation for summation SAR>1.6W/kg

Position	Frequency	Power	Distance	Antenna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
0.000	0.000	0.000	0.000	0.000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

<Case 35>

SPLSR calculation for summation SAR>1.6W/kg

Position	Frequency	Power	Distance	Antenna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
0.000	0.000	0.000	0.000	0.000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

<Case 36>

SPLSR calculation for summation SAR>1.6W/kg

Position	Frequency	Power	Distance	Antenna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
0.000	0.000	0.000	0.000	0.000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



<Case 41>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	7	9	10	11
	WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Back	1g SAR (W/kg)			0.296	0.324	0.346
				0+1+7+9 Summed SAR	0+1+7+10 Summed SAR	0+1+7+11 Summed SAR
GSM850_Ant 0 TX0	0.825	0.253	0.173	1.547	1.575	1.597
GSM1900_Ant 0 TX1	0.339	0.253	0.173	1.061	1.089	1.111
WCDMA II_Ant 0 TX1	0.479	0.253	0.173	1.201	1.229	1.251
WCDMA IV_Ant 0 TX1	0.470	0.253	0.173	1.192	1.220	1.242
WCDMA V_Ant 0 TX0	0.532	0.253	0.173	1.254	1.282	1.304
LTE Band 7_Ant 0 TX1	0.372	0.253	0.173	1.094	1.122	1.144
LTE Band 12_Ant 0 TX0	0.340	0.253	0.173	1.062	1.090	1.112
LTE Band 13_Ant 0 TX0	0.390	0.253	0.173	1.112	1.140	1.162
LTE Band 14_Ant 0 TX0	0.383	0.253	0.173	1.105	1.133	1.155
LTE Band 25_Ant 0 TX1	0.398	0.253	0.173	1.120	1.148	1.170
LTE Band 26_Ant 0 TX0	0.570	0.253	0.173	1.292	1.320	1.342
LTE Band 30_Ant 0 TX1	0.440	0.253	0.173	1.162	1.190	1.212
LTE Band 41_Ant 0 TX1	0.364	0.253	0.173	1.086	1.114	1.136
LTE Band 66_Ant 0 TX1	0.402	0.253	0.173	1.124	1.152	1.174
LTE Band 71_Ant 0 TX0	0.214	0.253	0.173	0.936	0.964	0.986
FR1 n7_Ant 0 TX1	0.525	0.253	0.173	1.247	1.275	1.297
FR1 n12_Ant 0 TX0	0.345	0.253	0.173	1.067	1.095	1.117
FR1 n14_Ant 0 TX0	0.481	0.253	0.173	1.203	1.231	1.253
FR1 n25_Ant 0 TX1	0.504	0.253	0.173	1.226	1.254	1.276
FR1 n26_Ant 0 TX0	0.575	0.253	0.173	1.297	1.325	1.347
FR1 n30_Ant 0 TX1	0.393	0.253	0.173	1.115	1.143	1.165
FR1 n41_Ant 0 TX1	0.452	0.253	0.173	1.174	1.202	1.224
FR1 n66_Ant 0 TX1	0.446	0.253	0.173	1.168	1.196	1.218
FR1 n70_Ant 0 TX1	0.552	0.253	0.173	1.274	1.302	1.324
FR1 n71_Ant 0 TX0	0.253	0.253	0.173	0.975	1.003	1.025

SAR peak location (mm)			X (axis)	2.3	14	-56.5	-65.5	-59	
			Y (axis)	60.7	36	-54.5	-52.5	-52	
			Z (axis)	-207	-207	-207	-207	-207	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	1	7	9	10	11
			Back	WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
			1g SAR (W/kg)			0.296	0.324	0.346	
						0+1+7+9 SPLSR Results	0+1+7+10 SPLSR Results	0+1+7+11 SPLSR Results	
-10.5	-83.6	-207	GSM850_Ant 0 TX0	0.825	0.253	0.173			0.03
-5.6	-81.4	-207	GSM1900_Ant 0 TX1	0.339	0.253	0.173			
-4.9	-86.6	-207	WCDMA II_Ant 0 TX1	0.479	0.253	0.173			
-3.4	-83.4	-207	WCDMA IV_Ant 0 TX1	0.470	0.253	0.173			
-13	-82.1	-207	WCDMA V_Ant 0 TX0	0.532	0.253	0.173			
-11	-77.5	-207	LTE Band 7_Ant 0 TX1	0.372	0.253	0.173			
-14.5	-80.8	-207	LTE Band 12_Ant 0 TX0	0.340	0.253	0.173			
-11.4	-79.4	-207	LTE Band 13_Ant 0 TX0	0.390	0.253	0.173			
-14.7	-81.6	-207	LTE Band 14_Ant 0 TX0	0.383	0.253	0.173			
-6.4	-82.4	-207	LTE Band 25_Ant 0 TX1	0.398	0.253	0.173			
-13.4	-83.9	-207	LTE Band 26_Ant 0 TX0	0.570	0.253	0.173			
-7	-80	-207	LTE Band 30_Ant 0 TX1	0.440	0.253	0.173			
-24	-82	-207	LTE Band 41_Ant 0 TX1	0.364	0.253	0.173			
-1.4	-83.9	-207	LTE Band 66_Ant 0 TX1	0.402	0.253	0.173			
-16.2	-78.1	-207	LTE Band 71_Ant 0 TX0	0.214	0.253	0.173			
-14	-78	-207	FR1 n7_Ant 0 TX1	0.525	0.253	0.173			
-12.7	-84.6	-207	FR1 n12_Ant 0 TX0	0.345	0.253	0.173			
-11.7	-85.9	-207	FR1 n14_Ant 0 TX0	0.481	0.253	0.173			
-5.4	-82.4	-207	FR1 n25_Ant 0 TX1	0.504	0.253	0.173			
-10	-77.6	-207	FR1 n26_Ant 0 TX0	0.575	0.253	0.173			
-7.5	-78	-207	FR1 n30_Ant 0 TX1	0.393	0.253	0.173			
-15.5	-79	-207	FR1 n41_Ant 0 TX1	0.452	0.253	0.173			
-4.6	-81.9	-207	FR1 n66_Ant 0 TX1	0.446	0.253	0.173			
-6.9	-84.6	-207	FR1 n70_Ant 0 TX1	0.552	0.253	0.173			
-6.7	-78.3	-207	FR1 n71_Ant 0 TX0	0.253	0.253	0.173			



<Case 42>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	7	9	10	11
	WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 4	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Back	1g SAR (W/kg)			0.296	0.324	0.346
				0+1+7+9 Summed SAR	0+1+7+10 Summed SAR	0+1+7+11 Summed SAR
GSM850_Ant 0 TX0	0.825	0.253	0.204	1.578	1.606	1.628
GSM1900_Ant 0 TX1	0.339	0.253	0.204	1.092	1.120	1.142
WCDMA II_Ant 0 TX1	0.479	0.253	0.204	1.232	1.260	1.282
WCDMA IV_Ant 0 TX1	0.470	0.253	0.204	1.223	1.251	1.273
WCDMA V_Ant 0 TX0	0.532	0.253	0.204	1.285	1.313	1.335
LTE Band 7_Ant 0 TX1	0.372	0.253	0.204	1.125	1.153	1.175
LTE Band 12_Ant 0 TX0	0.340	0.253	0.204	1.093	1.121	1.143
LTE Band 13_Ant 0 TX0	0.390	0.253	0.204	1.143	1.171	1.193
LTE Band 14_Ant 0 TX0	0.383	0.253	0.204	1.136	1.164	1.186
LTE Band 25_Ant 0 TX1	0.398	0.253	0.204	1.151	1.179	1.201
LTE Band 26_Ant 0 TX0	0.570	0.253	0.204	1.323	1.351	1.373
LTE Band 30_Ant 0 TX1	0.440	0.253	0.204	1.193	1.221	1.243
LTE Band 41_Ant 0 TX1	0.364	0.253	0.204	1.117	1.145	1.167
LTE Band 66_Ant 0 TX1	0.402	0.253	0.204	1.155	1.183	1.205
LTE Band 71_Ant 0 TX0	0.214	0.253	0.204	0.967	0.995	1.017
FR1 n7_Ant 0 TX1	0.525	0.253	0.204	1.278	1.306	1.328
FR1 n12_Ant 0 TX0	0.345	0.253	0.204	1.098	1.126	1.148
FR1 n14_Ant 0 TX0	0.481	0.253	0.204	1.234	1.262	1.284
FR1 n25_Ant 0 TX1	0.504	0.253	0.204	1.257	1.285	1.307
FR1 n26_Ant 0 TX0	0.575	0.253	0.204	1.328	1.356	1.378
FR1 n30_Ant 0 TX1	0.393	0.253	0.204	1.146	1.174	1.196
FR1 n41_Ant 0 TX1	0.452	0.253	0.204	1.205	1.233	1.255
FR1 n66_Ant 0 TX1	0.446	0.253	0.204	1.199	1.227	1.249
FR1 n70_Ant 0 TX1	0.552	0.253	0.204	1.305	1.333	1.355
FR1 n71_Ant 0 TX0	0.253	0.253	0.204	1.006	1.034	1.056

SAR peak location (mm)			X (axis)	2.3	-64	-66.5	-65.5	-59	
			Y (axis)	69.7	72	-54.5	-52.5	-52	
			Z (axis)	-207	-207	-207	-207	-207	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	1	7	9	10	11
				WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 4	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
			Back	1g SAR (W/kg)			0.296	0.324	0.346
							0+1+7+9 SPLSR Results	0+1+7+10 SPLSR Results	0+1+7+11 SPLSR Results
-10.5	-83.6	-207	GSM850_Ant 0 TX0	0.825	0.253	0.204		0.03	0.04
-5.6	-81.4	-207	GSM1900_Ant 0 TX1	0.339	0.253	0.204			
-4.9	-86.6	-207	WCDMA II_Ant 0 TX1	0.479	0.253	0.204			
-3.4	-83.4	-207	WCDMA IV_Ant 0 TX1	0.470	0.253	0.204			
-13	-82.1	-207	WCDMA V_Ant 0 TX0	0.532	0.253	0.204			
-11	-77.5	-207	LTE Band 7_Ant 0 TX1	0.372	0.253	0.204			
-14.5	-80.8	-207	LTE Band 12_Ant 0 TX0	0.340	0.253	0.204			
-11.4	-79.4	-207	LTE Band 13_Ant 0 TX0	0.390	0.253	0.204			
-14.7	-81.6	-207	LTE Band 14_Ant 0 TX0	0.383	0.253	0.204			
-6.4	-82.4	-207	LTE Band 25_Ant 0 TX1	0.398	0.253	0.204			
-13.4	-83.9	-207	LTE Band 26_Ant 0 TX0	0.570	0.253	0.204			
-7	-80	-207	LTE Band 30_Ant 0 TX1	0.440	0.253	0.204			
-24	-82	-207	LTE Band 41_Ant 0 TX1	0.364	0.253	0.204			
-1.4	-83.9	-207	LTE Band 66_Ant 0 TX1	0.402	0.253	0.204			
-16.2	-78.1	-207	LTE Band 71_Ant 0 TX0	0.214	0.253	0.204			
-14	-78	-207	FR1 n7_Ant 0 TX1	0.525	0.253	0.204			
-12.7	-84.6	-207	FR1 n12_Ant 0 TX0	0.345	0.253	0.204			
-11.7	-85.9	-207	FR1 n14_Ant 0 TX0	0.481	0.253	0.204			
-5.4	-82.4	-207	FR1 n25_Ant 0 TX1	0.504	0.253	0.204			
-10	-77.6	-207	FR1 n26_Ant 0 TX0	0.575	0.253	0.204			
-7.5	-78	-207	FR1 n30_Ant 0 TX1	0.393	0.253	0.204			
-15.5	-79	-207	FR1 n41_Ant 0 TX1	0.452	0.253	0.204			
-4.6	-81.9	-207	FR1 n66_Ant 0 TX1	0.446	0.253	0.204			
-6.9	-84.6	-207	FR1 n70_Ant 0 TX1	0.552	0.253	0.204			
-6.7	-78.3	-207	FR1 n71_Ant 0 TX0	0.253	0.253	0.204			



<Case 43>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row: E1: 0.000, E2: 0.000, E3: 0.000, E4: 0.000, E5: 0.000, E6: 0.000, E7: 0.000, E8: 0.000, E9: 0.000, E10: 0.000, E11: 0.000, E12: 0.000, E13: 0.000, E14: 0.000, E15: 0.000, E16: 0.000, E17: 0.000, E18: 0.000, E19: 0.000, E20: 0.000. Data rows show SAR values for various frequencies and locations.

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row: E1: 0.000, E2: 0.000, E3: 0.000, E4: 0.000, E5: 0.000, E6: 0.000, E7: 0.000, E8: 0.000, E9: 0.000, E10: 0.000, E11: 0.000, E12: 0.000, E13: 0.000, E14: 0.000, E15: 0.000, E16: 0.000, E17: 0.000, E18: 0.000, E19: 0.000, E20: 0.000. Data rows show SAR values for various frequencies and locations.

<Case 44>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row: E1: 0.000, E2: 0.000, E3: 0.000, E4: 0.000, E5: 0.000, E6: 0.000, E7: 0.000, E8: 0.000, E9: 0.000, E10: 0.000, E11: 0.000, E12: 0.000, E13: 0.000, E14: 0.000, E15: 0.000, E16: 0.000, E17: 0.000, E18: 0.000, E19: 0.000, E20: 0.000. Data rows show SAR values for various frequencies and locations.

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row: E1: 0.000, E2: 0.000, E3: 0.000, E4: 0.000, E5: 0.000, E6: 0.000, E7: 0.000, E8: 0.000, E9: 0.000, E10: 0.000, E11: 0.000, E12: 0.000, E13: 0.000, E14: 0.000, E15: 0.000, E16: 0.000, E17: 0.000, E18: 0.000, E19: 0.000, E20: 0.000. Data rows show SAR values for various frequencies and locations.



<Case 45>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row: E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20. Data rows show SAR values for various frequency bands and polarization types.

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row: E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20. Data rows show SAR values for various frequency bands and polarization types.

<Case 46>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row: E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20. Data rows show SAR values for various frequency bands and polarization types.

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row: E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20. Data rows show SAR values for various frequency bands and polarization types.



<Case 47>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (1-20) and 21 rows (1-21) showing SAR values for various test cases and frequencies.

Table with 20 columns (1-20) and 21 rows (1-21) showing SAR values for various test cases and frequencies.

<Case 48>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (1-20) and 21 rows (1-21) showing SAR values for various test cases and frequencies.

Table with 20 columns (1-20) and 21 rows (1-21) showing SAR values for various test cases and frequencies.

<Case 49>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (1-20) and 21 rows (1-21) showing SAR values for various test cases and frequencies.

Table with 20 columns (1-20) and 21 rows (1-21) showing SAR values for various test cases and frequencies.



<Case 50>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns: Exposure Position, Wavelength, Frequency, Power, and SAR values for various body parts (Head, Neck, Torso, etc.) across different test scenarios.

Table with columns: Exposure Position, Wavelength, Frequency, Power, and SAR values for various body parts (Head, Neck, Torso, etc.) across different test scenarios.

<Case 51>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns: Exposure Position, Wavelength, Frequency, Power, and SAR values for various body parts (Head, Neck, Torso, etc.) across different test scenarios.

Table with columns: Exposure Position, Wavelength, Frequency, Power, and SAR values for various body parts (Head, Neck, Torso, etc.) across different test scenarios.

<Case 52>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns: Exposure Position, Wavelength, Frequency, Power, and SAR values for various body parts (Head, Neck, Torso, etc.) across different test scenarios.

Table with columns: Exposure Position, Wavelength, Frequency, Power, and SAR values for various body parts (Head, Neck, Torso, etc.) across different test scenarios.



<Case 53>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	2	9	10	11
	WWAN SAR	WLAN2.4GHz Ant 3	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Edge	1g SAR (W/kg)			0.744	0.741	0.644
				0+1+2+9 Summed SAR	0+1+2+10 Summed SAR	0+1+2+11 Summed SAR
LTE Band 25_Ant 5 Sub TX1	0.833	0.005	0.163	1.745	1.742	1.645
LTE Band 66_Ant 5 Sub TX1	0.844	0.005	0.163	1.756	1.753	1.656
FR1 n25_Ant 5 Sub TX1	0.833	0.005	0.163	1.745	1.742	1.645
FR1 n66_Ant 5 Sub TX1	0.832	0.005	0.163	1.744	1.741	1.644
FR1 n41_Ant 5 Sub TX1	0.847	0.005	0.163	1.759	1.756	1.659
FR1 n48_Ant 5 Sub TX1	0.398	0.005	0.163	1.310	1.307	1.210
FR1 n77_Ant 5 Sub TX1	0.324	0.005	0.163	1.236	1.233	1.136

Combination	SAR	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
		X	Y	Z				
Max WWAN Ant 7+WLAN2.4G Ant 3	0.749	-25.9	59.5	-207.0	93.6	1.76	0.02	Not required
Max WWAN Ant 5+WLAN5/6G Ant 4+3	1.010	-23.5	-34.1	-207.0				

<Case 54>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	2	9	10	11
	WWAN SAR	WLAN2.4GHz Ant 4	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Edge	1g SAR (W/kg)			0.744	0.741	0.644
				0+1+2+9 Summed SAR	0+1+2+10 Summed SAR	0+1+2+11 Summed SAR
LTE Band 25_Ant 5 Sub TX1	0.833	0.078	0.163	1.818	1.815	1.718
LTE Band 66_Ant 5 Sub TX1	0.844	0.078	0.163	1.829	1.826	1.729
FR1 n25_Ant 5 Sub TX1	0.833	0.078	0.163	1.818	1.815	1.718
FR1 n66_Ant 5 Sub TX1	0.832	0.078	0.163	1.817	1.814	1.717
FR1 n41_Ant 5 Sub TX1	0.847	0.078	0.163	1.832	1.829	1.732
FR1 n48_Ant 5 Sub TX1	0.398	0.078	0.163	1.383	1.380	1.283
FR1 n77_Ant 5 Sub TX1	0.324	0.078	0.163	1.309	1.306	1.209

SAR peak location (mm)			X (axis)						
			0	1	2	9	10	11	
X (axis)			-23.2	-22.4	-24.5	-25.9	-23.1		
Y (axis)			-62.5	-59.8	61.5	59.5	61.5		
Z (axis)			-207	-207	-207	-207	-207		
X (axis)	Y (axis)	Z (axis)	Exposure Position						
			0	1	2	9	10	11	
			WWAN SAR	WLAN2.4GHz Ant 4	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1	
			1g SAR (W/kg)			0.744	0.741	0.644	
						0+1+2+9 SPLSR Results	0+1+2+10 SPLSR Results	0+1+2+11 SPLSR Results	
-23.5	-34.1	-207	LTE Band 25_Ant 5 Sub TX1	0.833	0.078	0.163	0.03	0.03	0.02
-24.2	-37.6	-207	LTE Band 66_Ant 5 Sub TX1	0.844	0.078	0.163	0.02	0.03	0.02
-23	-36.6	-207	FR1 n25_Ant 5 Sub TX1	0.833	0.078	0.163	0.02	0.03	0.02
-23.5	-37.1	-207	FR1 n66_Ant 5 Sub TX1	0.832	0.078	0.163	0.02	0.03	0.02
-24.5	-41.5	-207	FR1 n41_Ant 5 Sub TX1	0.847	0.078	0.163	0.02	0.02	0.02
-25.9	-44.5	-207	FR1 n48_Ant 5 Sub TX1	0.398	0.078	0.163			
-24.5	-42	-207	FR1 n77_Ant 5 Sub TX1	0.324	0.078	0.163			



<Case 55>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	2	9	10	11
	WWAN SAR	WLAN2.4GHz Ant 4+3	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Edge	1g SAR (W/kg)			0.744	0.741	0.644
				0+1+2+9 Summed SAR	0+1+2+10 Summed SAR	0+1+2+11 Summed SAR
LTE Band 25_Ant 5 Sub TX1	0.833	0.070	0.163	1.810	1.807	1.710
LTE Band 66_Ant 5 Sub TX1	0.844	0.070	0.163	1.821	1.818	1.721
FR1 n25_Ant 5 Sub TX1	0.833	0.070	0.163	1.810	1.807	1.710
FR1 n66_Ant 5 Sub TX1	0.832	0.070	0.163	1.809	1.806	1.709
FR1 n41_Ant 5 Sub TX1	0.847	0.070	0.163	1.824	1.821	1.724
FR1 n48_Ant 5 Sub TX1	0.398	0.070	0.163	1.375	1.372	1.275
FR1 n77_Ant 5 Sub TX1	0.324	0.070	0.163	1.301	1.298	1.201

SAR peak location (mm)			X (axis)	Y (axis)	Z (axis)	0	1	2	9	10	11	
			-23.2	-22.4	-24.5	-35.9	-23.1					
			-65.5	-59.8	61.5	59.5	61.5					
			-207	-207	-207	-207	-207					
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	1	2	9	10	11			
				WWAN SAR	WLAN2.4GHz Ant 4+3	WLAN5/6GHz Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1			
Right Edge				1g SAR (W/kg)			0.744	0.741	0.644			
							0+1+2+9 SPLSR Results	0+1+2+10 SPLSR Results	0+1+2+11 SPLSR Results			
-23.5	-34.1	-207	LTE Band 25_Ant 5 Sub TX1	0.833	0.070	0.163	0.03	0.03	0.02			
-24.2	-37.6	-207	LTE Band 66_Ant 5 Sub TX1	0.844	0.070	0.163	0.02	0.03	0.02			
-23	-36.6	-207	FR1 n25_Ant 5 Sub TX1	0.833	0.070	0.163	0.02	0.03	0.02			
-23.5	-37.1	-207	FR1 n66_Ant 5 Sub TX1	0.832	0.070	0.163	0.02	0.03	0.02			
-24.5	-41.5	-207	FR1 n41_Ant 5 Sub TX1	0.847	0.070	0.163	0.02	0.02	0.02			
-25.9	-44.5	-207	FR1 n48_Ant 5 Sub TX1	0.398	0.070	0.163						
-24.5	-42	-207	FR1 n77_Ant 5 Sub TX1	0.324	0.070	0.163						

<Case 56>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	7	9	10	11
	WWAN SAR	WLAN5/6GHz Ant 4+3	Bluetooth Ant 3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Edge	1g SAR (W/kg)			0.744	0.741	0.644
				0+1+7+9 Summed SAR	0+1+7+10 Summed SAR	0+1+7+11 Summed SAR
LTE Band 25_Ant 5 Sub TX1	0.833	0.163	0.006	1.746	1.743	1.646
LTE Band 66_Ant 5 Sub TX1	0.844	0.163	0.006	1.757	1.754	1.657
FR1 n25_Ant 5 Sub TX1	0.833	0.163	0.006	1.746	1.743	1.646
FR1 n66_Ant 5 Sub TX1	0.832	0.163	0.006	1.745	1.742	1.645
FR1 n41_Ant 5 Sub TX1	0.847	0.163	0.006	1.760	1.757	1.660
FR1 n48_Ant 5 Sub TX1	0.398	0.163	0.006	1.311	1.308	1.211
FR1 n77_Ant 5 Sub TX1	0.324	0.163	0.006	1.237	1.234	1.137

Combination	SAR	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
		X	Y	Z				
Max WWAN Ant 7+Bluetooth Ant 3	0.750	-27.3	55.5	-207.0	89.7	1.76	0.03	Not required
Max WWAN Ant 5+WLAN5/6G Ant 4+3	1.010	-23.5	-34.1	-207.0				



<Case 57>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	7	9	10	11
	WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 4	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Edge	1g SAR (W/kg)			0.744	0.741	0.644
				0+1+7+9 Summed SAR	0+1+7+10 Summed SAR	0+1+7+11 Summed SAR
LTE Band 25_Ant 5 Sub TX1	0.833	0.163	0.253	1.993	1.990	1.893
LTE Band 66_Ant 5 Sub TX1	0.844	0.163	0.253	2.004	2.001	1.904
FR1 n25_Ant 5 Sub TX1	0.833	0.163	0.253	1.993	1.990	1.893
FR1 n66_Ant 5 Sub TX1	0.832	0.163	0.253	1.992	1.989	1.892
FR1 n41_Ant 5 Sub TX1	0.847	0.163	0.253	2.007	2.004	1.907
FR1 n48_Ant 5 Sub TX1	0.398	0.163	0.253	1.558	1.555	1.458
FR1 n77_Ant 5 Sub TX1	0.324	0.163	0.253	1.484	1.481	1.384

SAR peak location (mm)			X (axis)	Y (axis)	Z (axis)	0	1	7	9	10	11
			X (axis)	-22.4	-24.5	-24.5	-35.9	-23.1			
			Y (axis)	-58.8	-65.5	61.5	59.5	61.5			
			Z (axis)	-207	-207	-207	-207	-207			
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	1	7	9	10	11		
				WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 4	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1		
			Right Edge	1g SAR (W/kg)			0.744	0.741	0.644		
							0+1+7+9 SPLSR Results	0+1+7+10 SPLSR Results	0+1+7+11 SPLSR Results		
-23.5	-34.1	-207	LTE Band 25_Ant 5 Sub TX1	0.833	0.163	0.253	0.03	0.03	0.03		
-24.2	-37.6	-207	LTE Band 66_Ant 5 Sub TX1	0.844	0.163	0.253	0.03	0.03	0.03		
-23	-36.6	-207	FR1 n25_Ant 5 Sub TX1	0.833	0.163	0.253	0.03	0.03	0.03		
-23.5	-37.1	-207	FR1 n66_Ant 5 Sub TX1	0.832	0.163	0.253	0.03	0.03	0.03		
-24.5	-41.5	-207	FR1 n41_Ant 5 Sub TX1	0.847	0.163	0.253	0.03	0.03	0.03		
-25.9	-44.5	-207	FR1 n48_Ant 5 Sub TX1	0.398	0.163	0.253					
-24.5	-42	-207	FR1 n77_Ant 5 Sub TX1	0.324	0.163	0.253					

<Case 58>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	7	9	10	11
	WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Right Edge	1g SAR (W/kg)			0.744	0.741	0.644
				0+1+7+9 Summed SAR	0+1+7+10 Summed SAR	0+1+7+11 Summed SAR
LTE Band 25_Ant 5 Sub TX1	0.833	0.163	0.113	1.853	1.850	1.753
LTE Band 66_Ant 5 Sub TX1	0.844	0.163	0.113	1.864	1.861	1.764
FR1 n25_Ant 5 Sub TX1	0.833	0.163	0.113	1.853	1.850	1.753
FR1 n66_Ant 5 Sub TX1	0.832	0.163	0.113	1.852	1.849	1.752
FR1 n41_Ant 5 Sub TX1	0.847	0.163	0.113	1.867	1.864	1.767
FR1 n48_Ant 5 Sub TX1	0.398	0.163	0.113	1.418	1.415	1.318
FR1 n77_Ant 5 Sub TX1	0.324	0.163	0.113	1.344	1.341	1.244

SAR peak location (mm)			X (axis)	Y (axis)	Z (axis)	0	1	7	9	10	11
			X (axis)	-22.4	-22.7	-24.5	-25.9	-23.1			
			Y (axis)	-58.8	-65	61.5	59.5	61.5			
			Z (axis)	-207	-207	-207	-207	-207			
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	1	7	9	10	11		
				WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 4+3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1		
			Right Edge	1g SAR (W/kg)			0.744	0.741	0.644		
							0+1+7+9 SPLSR Results	0+1+7+10 SPLSR Results	0+1+7+11 SPLSR Results		
-23.5	-34.1	-207	LTE Band 25_Ant 5 Sub TX1	0.833	0.163	0.113	0.03	0.03	0.02		
-24.2	-37.6	-207	LTE Band 66_Ant 5 Sub TX1	0.844	0.163	0.113	0.03	0.03	0.02		
-23	-36.6	-207	FR1 n25_Ant 5 Sub TX1	0.833	0.163	0.113	0.03	0.03	0.02		
-23.5	-37.1	-207	FR1 n66_Ant 5 Sub TX1	0.832	0.163	0.113	0.03	0.03	0.02		
-24.5	-41.5	-207	FR1 n41_Ant 5 Sub TX1	0.847	0.163	0.113	0.02	0.03	0.02		
-25.9	-44.5	-207	FR1 n48_Ant 5 Sub TX1	0.398	0.163	0.113					
-24.5	-42	-207	FR1 n77_Ant 5 Sub TX1	0.324	0.163	0.113					



<Case 59>

SPLSR calculation for summation SAR>1.6W/kg

Table with 7 columns: Exposure Position, 0, 1, 7, 9, 10, 11. Rows include LTE Band 25, LTE Band 66, FR1 n25, FR1 n66, FR1 n41, FR1 n48, FR1 n77.

Table with 8 columns: Combination, SAR, SAR peak location (mm) X, Y, Z, 3D distance (mm), Summed SAR (W/kg), SPLSR Results, Simultaneous SAR.

<Case 60>

SPLSR calculation for summation SAR>1.6W/kg

Large data table for Case 60 with multiple columns for SAR and peak location data.

Large data table for Case 60, continuation of SAR and peak location data.

<Case 61>

SPLSR calculation for summation SAR>1.6W/kg

Large data table for Case 61 with multiple columns for SAR and peak location data.

Large data table for Case 61, continuation of SAR and peak location data.



<Case 62>

SPLSR calculation for summation SAR>1.6W/kg

Case	Device	Freq.	Power	Distance	Field	Exposure	Time	Weight	SAR	Wt. SAR	Limit	Unit	Result

<Case 63>

SPLSR calculation for summation SAR>1.6W/kg

Case	Device	Freq.	Power	Distance	Field	Exposure	Time	Weight	SAR	Wt. SAR	Limit	Unit	Result

<Case 64>

SPLSR calculation for summation SAR>1.6W/kg

Case	Device	Freq.	Power	Distance	Field	Exposure	Time	Weight	SAR	Wt. SAR	Limit	Unit	Result



<Case 65>

SPLSR calculation for summation SAR>1.6W/kg

Table with multiple columns and rows, containing data for Case 65. Some cells are highlighted in orange.

Table with multiple columns and rows, containing data for Case 65. Some cells are highlighted in orange.

<Case 66>

SPLSR calculation for summation SAR>1.6W/kg

Table with multiple columns and rows, containing data for Case 66. Some cells are highlighted in orange.

Table with multiple columns and rows, containing data for Case 66. Some cells are highlighted in orange.

<Case 67>

SPLSR calculation for summation SAR>1.6W/kg

Table with multiple columns and rows, containing data for Case 67. Some cells are highlighted in orange.

Table with multiple columns and rows, containing data for Case 67. Some cells are highlighted in orange.



<Case 68>

SPLSR calculation for summation SAR>1.6W/kg

Table with multiple columns and rows, containing numerical data and highlighted orange rows.

Table with multiple columns and rows, containing numerical data and highlighted orange rows.

<Case 69>

SPLSR calculation for summation SAR>1.6W/kg

Table with multiple columns and rows, containing numerical data and highlighted orange rows.

Table with multiple columns and rows, containing numerical data and highlighted orange rows.

<Case 70>

SPLSR calculation for summation SAR>1.6W/kg

Table with multiple columns and rows, containing numerical data and highlighted orange rows.

Table with multiple columns and rows, containing numerical data and highlighted orange rows.



<Case 71>

SPLSR calculation for summation SAR>1.6W/kg

Large data table for Case 71 showing SAR calculations for various frequencies and power densities.

<Case 72>

SPLSR calculation for summation SAR>1.6W/kg

Large data table for Case 72 showing SAR calculations for various frequencies and power densities.

<Case 73>

SPLSR calculation for summation SAR>1.6W/kg

Large data table for Case 73 showing SAR calculations for various frequencies and power densities.

Summary table for Case 73 with columns: Combination, SAR, X, Y, Z, 3D distance (mm), Summed SAR (W/kg), SPLSR Results, Simultaneous SAR.



<Case 74>

SPLSR calculation for summation SAR>1.6W/kg

Position	000000	000001	000002	000003	000004	000005	000006	000007	000008	000009	000010	000011	000012	000013	000014	000015	000016	000017	000018	000019	000020			
Ant	1g SAR (W/kg)		000000 Ant 2 70	000001 Ant 2 70	000002 Ant 2 70	000003 Ant 2 70	000004 Ant 2 70	000005 Ant 2 70	000006 Ant 2 70	000007 Ant 2 70	000008 Ant 2 70	000009 Ant 2 70	000010 Ant 2 70	000011 Ant 2 70	000012 Ant 2 70	000013 Ant 2 70	000014 Ant 2 70	000015 Ant 2 70	000016 Ant 2 70	000017 Ant 2 70	000018 Ant 2 70	000019 Ant 2 70	000020 Ant 2 70	
000000 Ant 2 70	0.882	0.881	0.880	1.459	1.458	1.457	1.456	1.455	1.454	1.453	1.452	1.451	1.450	1.449	1.448	1.447	1.446	1.445	1.444	1.443	1.442	1.441	1.440	1.439
000001 Ant 2 70	0.886	0.885	0.884	1.463	1.462	1.461	1.460	1.459	1.458	1.457	1.456	1.455	1.454	1.453	1.452	1.451	1.450	1.449	1.448	1.447	1.446	1.445	1.444	1.443
000002 Ant 2 70	0.890	0.889	0.888	1.467	1.466	1.465	1.464	1.463	1.462	1.461	1.460	1.459	1.458	1.457	1.456	1.455	1.454	1.453	1.452	1.451	1.450	1.449	1.448	1.447
000003 Ant 2 70	0.894	0.893	0.892	1.471	1.470	1.469	1.468	1.467	1.466	1.465	1.464	1.463	1.462	1.461	1.460	1.459	1.458	1.457	1.456	1.455	1.454	1.453	1.452	1.451
000004 Ant 2 70	0.898	0.897	0.896	1.475	1.474	1.473	1.472	1.471	1.470	1.469	1.468	1.467	1.466	1.465	1.464	1.463	1.462	1.461	1.460	1.459	1.458	1.457	1.456	1.455
000005 Ant 2 70	0.902	0.901	0.900	1.479	1.478	1.477	1.476	1.475	1.474	1.473	1.472	1.471	1.470	1.469	1.468	1.467	1.466	1.465	1.464	1.463	1.462	1.461	1.460	1.459
000006 Ant 2 70	0.906	0.905	0.904	1.483	1.482	1.481	1.480	1.479	1.478	1.477	1.476	1.475	1.474	1.473	1.472	1.471	1.470	1.469	1.468	1.467	1.466	1.465	1.464	1.463
000007 Ant 2 70	0.910	0.909	0.908	1.487	1.486	1.485	1.484	1.483	1.482	1.481	1.480	1.479	1.478	1.477	1.476	1.475	1.474	1.473	1.472	1.471	1.470	1.469	1.468	1.467
000008 Ant 2 70	0.914	0.913	0.912	1.491	1.490	1.489	1.488	1.487	1.486	1.485	1.484	1.483	1.482	1.481	1.480	1.479	1.478	1.477	1.476	1.475	1.474	1.473	1.472	1.471
000009 Ant 2 70	0.918	0.917	0.916	1.495	1.494	1.493	1.492	1.491	1.490	1.489	1.488	1.487	1.486	1.485	1.484	1.483	1.482	1.481	1.480	1.479	1.478	1.477	1.476	1.475
000010 Ant 2 70	0.922	0.921	0.920	1.499	1.498	1.497	1.496	1.495	1.494	1.493	1.492	1.491	1.490	1.489	1.488	1.487	1.486	1.485	1.484	1.483	1.482	1.481	1.480	1.479
000011 Ant 2 70	0.926	0.925	0.924	1.503	1.502	1.501	1.500	1.499	1.498	1.497	1.496	1.495	1.494	1.493	1.492	1.491	1.490	1.489	1.488	1.487	1.486	1.485	1.484	1.483
000012 Ant 2 70	0.930	0.929	0.928	1.507	1.506	1.505	1.504	1.503	1.502	1.501	1.500	1.499	1.498	1.497	1.496	1.495	1.494	1.493	1.492	1.491	1.490	1.489	1.488	1.487
000013 Ant 2 70	0.934	0.933	0.932	1.511	1.510	1.509	1.508	1.507	1.506	1.505	1.504	1.503	1.502	1.501	1.500	1.499	1.498	1.497	1.496	1.495	1.494	1.493	1.492	1.491
000014 Ant 2 70	0.938	0.937	0.936	1.515	1.514	1.513	1.512	1.511	1.510	1.509	1.508	1.507	1.506	1.505	1.504	1.503	1.502	1.501	1.500	1.499	1.498	1.497	1.496	1.495
000015 Ant 2 70	0.942	0.941	0.940	1.519	1.518	1.517	1.516	1.515	1.514	1.513	1.512	1.511	1.510	1.509	1.508	1.507	1.506	1.505	1.504	1.503	1.502	1.501	1.500	1.499
000016 Ant 2 70	0.946	0.945	0.944	1.523	1.522	1.521	1.520	1.519	1.518	1.517	1.516	1.515	1.514	1.513	1.512	1.511	1.510	1.509	1.508	1.507	1.506	1.505	1.504	1.503
000017 Ant 2 70	0.950	0.949	0.948	1.527	1.526	1.525	1.524	1.523	1.522	1.521	1.520	1.519	1.518	1.517	1.516	1.515	1.514	1.513	1.512	1.511	1.510	1.509	1.508	1.507
000018 Ant 2 70	0.954	0.953	0.952	1.531	1.530	1.529	1.528	1.527	1.526	1.525	1.524	1.523	1.522	1.521	1.520	1.519	1.518	1.517	1.516	1.515	1.514	1.513	1.512	1.511
000019 Ant 2 70	0.958	0.957	0.956	1.535	1.534	1.533	1.532	1.531	1.530	1.529	1.528	1.527	1.526	1.525	1.524	1.523	1.522	1.521	1.520	1.519	1.518	1.517	1.516	1.515
000020 Ant 2 70	0.962	0.961	0.960	1.539	1.538	1.537	1.536	1.535	1.534	1.533	1.532	1.531	1.530	1.529	1.528	1.527	1.526	1.525	1.524	1.523	1.522	1.521	1.520	1.519

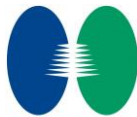
Combination	SAR	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0	44.5	1.33	0.03	Not required
Max WWAN Ant 0	0.844	-10.5	-83.6	-207.0				
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0				
WLAN2.4G Ant 4	0.051	-66.0	63.0	-207.0	135.6	0.53	0.00	Not required
Max WWAN Ant 0	0.844	-4.6	-81.1	-207.0				
WLAN2.4G Ant 4	0.051	-66.0	63.0	-207.0				
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0	143.3	0.77	0.00	Not required
WLAN5/6G Ant 4+3	0.290	6.3	58.2	-207.0				
Max WWAN Ant 0	0.844	-4.6	-81.1	-207.0				
WLAN5/6G Ant 4+3	0.290	6.3	58.2	-207.0	139.7	1.13	0.01	Not required
WLAN2.4G Ant 4	0.051	-66.0	63.0	-207.0				
WLAN5/6G Ant 4+3	0.290	-54.9	81.7	-207.0				



<Case 75>

SPLSR calculation for summation SAR>1.6W/kg

Combination	SAR	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Max WWAN Ant 2	0.482	-41.9	-62.3	-207.0	41.8	1.33	0.04	Not required
Max WWAN Ant 0	0.844	-4.6	-81.1	-207.0	129.5	0.57	0.00	Not required
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0				
WLAN2.4G Ant 4+3	0.092	14.0	38.5	-207.0				
Max WWAN Ant 0	0.844	-4.6	-81.1	-207.0	121.0	0.94	0.01	Not required
WLAN2.4G Ant 4+3	0.092	14.0	38.5	-207.0	143.3	0.77	0.00	Not required
Max WWAN Ant 2	0.482	-53.5	-72.0	-207.0				
WLAN5/6G Ant 4+3	0.290	6.3	58.2	-207.0				
Max WWAN Ant 0	0.844	-4.6	-81.1	-207.0	139.7	1.13	0.01	Not required
WLAN5/6G Ant 4+3	0.290	6.3	58.2	-207.0	10.1	0.38	0.02	Not required
WLAN2.4G Ant 4+3	0.092	-62.5	75.0	-207.0				
WLAN5/6G Ant 4+3	0.290	-54.9	81.7	-207.0				
WLAN2.4G Ant 4+3(4)	0.076	-62.5	75.0	-207.0	10.1	0.36	0.02	Not required
WLAN5/6G Ant 4+3(4)	0.287	-54.9	81.7	-207.0				
WLAN2.4G Ant 4+3(3)	0.092	14.0	38.5	-207.0				
WLAN5/6G Ant 4+3(4)	0.287	-54.9	81.7	-207.0	81.3	0.38	0.00	Not required
WLAN2.4G Ant 4+3(4)	0.076	-62.5	75.0	-207.0				
WLAN5/6G Ant 4+3(3)	0.290	6.3	58.2	-207.0				
WLAN2.4G Ant 4+3(3)	0.092	14.0	38.5	-207.0	70.8	0.37	0.00	Not required
WLAN5/6G Ant 4+3(3)	0.290	6.3	58.2	-207.0				
WLAN2.4G Ant 4+3(3)	0.092	14.0	38.5	-207.0				
WLAN5/6G Ant 4+3(3)	0.290	6.3	58.2	-207.0	21.2	0.38	0.01	Not required



<Case 76>

SPLSR calculation for summation SAR>1.6W/kg

Combin. Position	WLAN SAR	Bluetooth SAR	Summation SAR	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		
				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max WWAN Ant 2	0.482	0.00	0.482	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482
Max WWAN Ant 0	0.844	0.00	0.844	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844
Bluetooth Ant 3	0.173	0.00	0.173	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173
Max WWAN Ant 0	0.844	0.00	0.844	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844
Bluetooth Ant 3	0.173	0.00	0.173	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173
Max WWAN Ant 2	0.482	0.00	0.482	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482
WLAN5/6G Ant 4+3	0.290	0.00	0.290	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290
Max WWAN Ant 0	0.844	0.00	0.844	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844
WLAN5/6G Ant 4+3	0.290	0.00	0.290	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290
Bluetooth Ant 3	0.173	0.00	0.173	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173	0.00	0.173
WLAN5/6G Ant 4+3	0.290	0.00	0.290	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290

Combination	SAR	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Max WWAN Ant 2	0.482	-42.4	-64.8	-207.0	37.0	1.33	0.04	Not required
Max WWAN Ant 0	0.844	-10.5	-83.6	-207.0				
Max WWAN Ant 2	0.482	-47.0	-57.8	-207.0	111.9	0.66	0.00	Not required
Bluetooth Ant 3	0.173	14.0	36.0	-207.0				
Max WWAN Ant 0	0.844	-5.6	-78.9	-207.0	116.6	1.02	0.01	Not required
Bluetooth Ant 3	0.173	14.0	36.0	-207.0				
Max WWAN Ant 2	0.482	-47.0	-57.8	-207.0	127.7	0.77	0.01	Not required
WLAN5/6G Ant 4+3	0.290	6.3	58.2	-207.0				
Max WWAN Ant 0	0.844	-5.6	-78.9	-207.0	137.6	1.13	0.01	Not required
WLAN5/6G Ant 4+3	0.290	6.3	58.2	-207.0				
Bluetooth Ant 3	0.173	14.0	36.0	-207.0	23.5	0.46	0.01	Not required
WLAN5/6G Ant 4+3	0.290	6.3	58.2	-207.0				

<Case 77>

SPLSR calculation for summation SAR>1.6W/kg

Combin. Position	WLAN SAR	Bluetooth SAR	Summation SAR	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		
				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max WWAN Ant 2	0.482	0.00	0.482	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482
Max WWAN Ant 0	0.844	0.00	0.844	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844
Bluetooth Ant 4	0.204	0.00	0.204	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204
Max WWAN Ant 0	0.844	0.00	0.844	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844
Bluetooth Ant 4	0.204	0.00	0.204	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204
Max WWAN Ant 2	0.482	0.00	0.482	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482	0.00	0.482
WLAN5/6G Ant 4+3	0.290	0.00	0.290	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290
Max WWAN Ant 0	0.844	0.00	0.844	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844	0.00	0.844
WLAN5/6G Ant 4+3	0.290	0.00	0.290	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290
Bluetooth Ant 4	0.204	0.00	0.204	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204	0.00	0.204
WLAN5/6G Ant 4+3	0.290	0.00	0.290	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290	0.00	0.290

Combination	SAR	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Max WWAN Ant 2	0.482	-42.4	-64.8	-207.0	37.0	1.33	0.04	Not required
Max WWAN Ant 0	0.844	-10.5	-83.6	-207.0				
Max WWAN Ant 2	0.482	-59.1	-55.8	-207.0	127.9	0.69	0.00	Not required
Bluetooth Ant 4	0.204	-64.0	72.0	-207.0				
Max WWAN Ant 0	0.844	-5.5	-71.0	-207.0	154.5	1.05	0.01	Not required
Bluetooth Ant 4	0.204	-64.0	72.0	-207.0				
Max WWAN Ant 2	0.482	-47.0	-57.8	-207.0	127.7	0.77	0.01	Not required
WLAN5/6G Ant 4+3	0.290	6.3	58.2	-207.0				
Max WWAN Ant 0	0.844	-5.5	-71.0	-207.0	129.7	1.13	0.01	Not required
WLAN5/6G Ant 4+3	0.290	6.3	58.2	-207.0				
Bluetooth Ant 4	0.204	-64.0	72.0	-207.0	13.3	0.49	0.03	Not required
WLAN5/6G Ant 4+3	0.290	-54.9	81.7	-207.0				



<Case 78>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Frequency, SAR, and various antenna combinations (GSM, WCDMA, LTE, etc.).

Summary table with columns: Combination, SAR, X, Y, Z, 3D distance (mm), Summed SAR (W/kg), SPLSR Results, Simultaneous SAR.

<Case 79>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Frequency, SAR, and various antenna combinations (GSM, WCDMA, LTE, etc.).

Summary table with columns: Combination, SAR, SAR peak location (mm) [X, Y, Z], 3D distance (mm), Summed SAR (W/kg), SPLSR Results, Simultaneous SAR.



<Case 85>

SPLSR calculation for summation SAR>1.6W/kg

Case		Case No.		Case Name		Case Description		Case Location		Case Date		Case Time		Case Operator		Case Status		Case Comment		Case Result		Case Action		
85																								

<Case 86>

SPLSR calculation for summation SAR>1.6W/kg

Case		Case No.		Case Name		Case Description		Case Location		Case Date		Case Time		Case Operator		Case Status		Case Comment		Case Result		Case Action		
86																								

<Case 87>

SPLSR calculation for summation SAR>1.6W/kg

Case		Case No.		Case Name		Case Description		Case Location		Case Date		Case Time		Case Operator		Case Status		Case Comment		Case Result		Case Action		
87																								

<Case 88>

SPLSR calculation for summation SAR>1.6W/kg

Case		Case No.		Case Name		Case Description		Case Location		Case Date		Case Time		Case Operator		Case Status		Case Comment		Case Result		Case Action		
88																								

<Case 89>

SPLSR calculation for summation SAR>1.6W/kg

Case		Case No.		Case Name		Case Description		Case Location		Case Date		Case Time		Case Operator		Case Status		Case Comment		Case Result		Case Action		
89																								



<Case 95>

SPLSR calculation for summation SAR>1.6W/kg

Table with 28 columns: Position, Frequency, Power, etc. for Case 95.

Table with 28 columns: Position, Frequency, Power, etc. for Case 95.

<Case 96>

SPLSR calculation for summation SAR>1.6W/kg

Table with 28 columns: Position, Frequency, Power, etc. for Case 96.

Table with 28 columns: Position, Frequency, Power, etc. for Case 96.

<Case 97>

SPLSR calculation for summation SAR>1.6W/kg

Table with 28 columns: Position, Frequency, Power, etc. for Case 97.

Table with 28 columns: Position, Frequency, Power, etc. for Case 97.

<Case 98>

SPLSR calculation for summation SAR>1.6W/kg

Table with 28 columns: Position, Frequency, Power, etc. for Case 98.

Table with 28 columns: Position, Frequency, Power, etc. for Case 98.

<Case 99>

SPLSR calculation for summation SAR>1.6W/kg

Table with 28 columns: Position, Frequency, Power, etc. for Case 99.

Table with 28 columns: Position, Frequency, Power, etc. for Case 99.



<Case 100>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Frequency, and various SAR values (0.000, 0.001, 0.002, etc.) for Case 100.

Table with columns for Position, Frequency, and various SAR values for Case 100, including a sub-table for SAR values.

<Case 101>

SPLSR calculation for summation SAR>1.6W/kg

Table with columns for Position, Frequency, and various SAR values (0.000, 0.001, 0.002, etc.) for Case 101.

Table with columns for Position, Frequency, and various SAR values for Case 101, including a sub-table for SAR values.



<Case 102>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row includes 'E' and 'SAR' values. Data rows show SAR values for various frequency bands and power levels.

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row includes 'E' and 'SAR' values. Data rows show SAR values for various frequency bands and power levels.

<Case 103>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row includes 'E' and 'SAR' values. Data rows show SAR values for various frequency bands and power levels.

Table with 20 columns (E1-E20) and 20 rows (E1-E20). Header row includes 'E' and 'SAR' values. Data rows show SAR values for various frequency bands and power levels.



<Case 104>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (0-19) and 21 rows (0-20). Row 0: SAR values. Rows 1-20: Frequency bands (e.g., GSM850, GSM900, GSM1900, etc.) and their corresponding SAR values across the 20 columns.

Table with 20 columns (0-19) and 21 rows (0-20). Row 0: SAR values. Rows 1-20: Frequency bands (e.g., GSM850, GSM900, GSM1900, etc.) and their corresponding SAR values across the 20 columns.

<Case 105>

SPLSR calculation for summation SAR>1.6W/kg

Table with 20 columns (0-19) and 21 rows (0-20). Row 0: SAR values. Rows 1-20: Frequency bands (e.g., GSM850, GSM900, GSM1900, etc.) and their corresponding SAR values across the 20 columns.

Table with 20 columns (0-19) and 21 rows (0-20). Row 0: SAR values. Rows 1-20: Frequency bands (e.g., GSM850, GSM900, GSM1900, etc.) and their corresponding SAR values across the 20 columns.



<Case 106>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	7	9	10	11
	WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Back	1g SAR (W/kg)			0.296	0.347	0.346
				0+1+7+9 Summed SAR	0+1+7+10 Summed SAR	0+1+7+11 Summed SAR
GSM850_Ant 1 TX1	0.359	0.290	0.173	1.118	1.169	1.168
WCDMA V_Ant 1 TX1	0.226	0.290	0.173	0.985	1.036	1.035
LTE Band 12_Ant 1 TX1	0.162	0.290	0.173	0.921	0.972	0.971
LTE Band 13_Ant 1 TX1	0.220	0.290	0.173	0.979	1.030	1.029
LTE Band 14_Ant 1 TX1	0.242	0.290	0.173	1.001	1.052	1.051
LTE Band 25_Ant 1 Sub TX0	0.589	0.290	0.173	1.348	1.399	1.398
LTE Band 26_Ant 1 TX1	0.251	0.290	0.173	1.010	1.061	1.060
LTE Band 66_Ant 1 Sub TX0	0.539	0.290	0.173	1.298	1.349	1.348
LTE Band 71_Ant 1 TX1	0.177	0.290	0.173	0.936	0.987	0.986
FR1 n12_Ant 1 TX1	0.173	0.290	0.173	0.932	0.983	0.982
FR1 n14_Ant 1 TX1	0.236	0.290	0.173	0.995	1.046	1.045
FR1 n25_Ant 1 Sub TX0	0.688	0.290	0.173	1.447	1.498	1.497
FR1 n26_Ant 1 TX1	0.227	0.290	0.173	0.986	1.037	1.036
FR1 n41_Ant 1 Sub TX0	0.513	0.290	0.173	1.272	1.323	1.322
FR1 n48_Ant 1 Sub TX0	0.358	0.290	0.173	1.117	1.168	1.167
FR1 n66_Ant 1 Sub TX0	0.791	0.290	0.173	1.550	1.601	1.600
FR1 n71_Ant 1 TX1	0.173	0.290	0.173	0.932	0.983	0.982
FR1 n77_Ant 1 Sub TX0	0.557	0.290	0.173	1.316	1.367	1.366

SAR peak location (mm)			X (axis)	6.3	14	-56.5	-66.5	-99	
			Y (axis)	58.2	36	-54.5	-62.5	-52	
			Z (axis)	-207	-207	-207	-207	-207	
X (axis)	Y (axis)	Z (axis)	Exposure Position	0	1	7	9	10	11
				WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 3	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
			Back	1g SAR (W/kg)			0.296	0.347	0.346
							0+1+7+9 SPLSR Results	0+1+7+10 SPLSR Results	0+1+7+11 SPLSR Results
-1.4	68.6	-207	GSM850_Ant 1 TX1	0.359	0.290	0.173			
-9.6	79.3	-207	WCDMA V_Ant 1 TX1	0.226	0.290	0.173			
-7.4	85.6	-207	LTE Band 12_Ant 1 TX1	0.162	0.290	0.173			
-3.8	64.1	-207	LTE Band 13_Ant 1 TX1	0.220	0.290	0.173			
-8.8	71.8	-207	LTE Band 14_Ant 1 TX1	0.242	0.290	0.173			
6.8	83.9	-207	LTE Band 25_Ant 1 Sub TX0	0.589	0.290	0.173			
-10.1	79.3	-207	LTE Band 26_Ant 1 TX1	0.251	0.290	0.173			
7.3	84.4	-207	LTE Band 66_Ant 1 Sub TX0	0.539	0.290	0.173			
-9.8	85.4	-207	LTE Band 71_Ant 1 TX1	0.177	0.290	0.173			
-7.3	67.8	-207	FR1 n12_Ant 1 TX1	0.173	0.290	0.173			
-9.3	71.8	-207	FR1 n14_Ant 1 TX1	0.236	0.290	0.173			
4.6	83.9	-207	FR1 n25_Ant 1 Sub TX0	0.688	0.290	0.173			
-10.3	82.6	-207	FR1 n26_Ant 1 TX1	0.227	0.290	0.173			
16	70.5	-207	FR1 n41_Ant 1 Sub TX0	0.513	0.290	0.173			
17	67	-207	FR1 n48_Ant 1 Sub TX0	0.358	0.290	0.173			
-0.6	84.4	-207	FR1 n66_Ant 1 Sub TX0	0.791	0.290	0.173		0.02	0.02
-8	88.6	-207	FR1 n71_Ant 1 TX1	0.173	0.290	0.173			
18	67.5	-207	FR1 n77_Ant 1 Sub TX0	0.557	0.290	0.173			



<Case 107>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	7	9	10	11
	WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 4	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1
Back	1g SAR (W/kg)			0.296	0.347	0.346
				0+1+7+9 Summed SAR	0+1+7+10 Summed SAR	0+1+7+11 Summed SAR
GSM850_Ant 1 TX1	0.359	0.290	0.204	1.149	1.200	1.199
WCDMA V_Ant 1 TX1	0.226	0.290	0.204	1.016	1.067	1.066
LTE Band 12_Ant 1 TX1	0.162	0.290	0.204	0.952	1.003	1.002
LTE Band 13_Ant 1 TX1	0.220	0.290	0.204	1.010	1.061	1.060
LTE Band 14_Ant 1 TX1	0.242	0.290	0.204	1.032	1.083	1.082
LTE Band 25_Ant 1 Sub TX0	0.589	0.290	0.204	1.379	1.430	1.429
LTE Band 26_Ant 1 TX1	0.251	0.290	0.204	1.041	1.092	1.091
LTE Band 66_Ant 1 Sub TX0	0.539	0.290	0.204	1.329	1.380	1.379
LTE Band 71_Ant 1 TX1	0.177	0.290	0.204	0.967	1.018	1.017
FR1 n12_Ant 1 TX1	0.173	0.290	0.204	0.963	1.014	1.013
FR1 n14_Ant 1 TX1	0.236	0.290	0.204	1.026	1.077	1.076
FR1 n25_Ant 1 Sub TX0	0.688	0.290	0.204	1.478	1.529	1.528
FR1 n26_Ant 1 TX1	0.227	0.290	0.204	1.017	1.068	1.067
FR1 n41_Ant 1 Sub TX0	0.513	0.290	0.204	1.303	1.354	1.353
FR1 n48_Ant 1 Sub TX0	0.358	0.290	0.204	1.148	1.199	1.198
FR1 n66_Ant 1 Sub TX0	0.791	0.290	0.204	1.581	1.632	1.631
FR1 n71_Ant 1 TX1	0.173	0.290	0.204	0.963	1.014	1.013
FR1 n77_Ant 1 Sub TX0	0.557	0.290	0.204	1.347	1.398	1.397

SAR peak location (mm)			X (axis)	Y (axis)	Z (axis)	0	1	7	9	10	11
X (axis)	Y (axis)	Z (axis)	Exposure Position	WWAN SAR	WLANS/6GHz Ant 4+3	Bluetooth Ant 4	LTE Band 48_Ant 7 TX1	FR1 n48_Ant 7 TX1	FR1 n77_Ant 7 TX1		
							0.296	0.347	0.346		
			Back			1g SAR (W/kg)			0+1+7+9 SPLSR Results	0+1+7+10 SPLSR Results	0+1+7+11 SPLSR Results
-1.4	68.6	-207	GSM850_Ant 1 TX1	0.359	0.290	0.204					
-9.6	79.3	-207	WCDMA V_Ant 1 TX1	0.226	0.290	0.204					
-7.4	85.6	-207	LTE Band 12_Ant 1 TX1	0.162	0.290	0.204					
-3.8	64.1	-207	LTE Band 13_Ant 1 TX1	0.220	0.290	0.204					
-8.8	71.8	-207	LTE Band 14_Ant 1 TX1	0.242	0.290	0.204					
6.8	83.9	-207	LTE Band 25_Ant 1 Sub TX0	0.589	0.290	0.204					
-10.1	79.3	-207	LTE Band 26_Ant 1 TX1	0.251	0.290	0.204					
7.3	84.4	-207	LTE Band 66_Ant 1 Sub TX0	0.539	0.290	0.204					
-9.8	85.4	-207	LTE Band 71_Ant 1 TX1	0.177	0.290	0.204					
-7.3	67.8	-207	FR1 n12_Ant 1 TX1	0.173	0.290	0.204					
-9.3	71.8	-207	FR1 n14_Ant 1 TX1	0.236	0.290	0.204					
4.6	83.9	-207	FR1 n25_Ant 1 Sub TX0	0.688	0.290	0.204					
-10.3	82.6	-207	FR1 n26_Ant 1 TX1	0.227	0.290	0.204					
16	70.5	-207	FR1 n41_Ant 1 Sub TX0	0.513	0.290	0.204					
17	67	-207	FR1 n48_Ant 1 Sub TX0	0.358	0.290	0.204					
-0.6	84.4	-207	FR1 n66_Ant 1 Sub TX0	0.791	0.290	0.204		0.02		0.02	
-8	88.6	-207	FR1 n71_Ant 1 TX1	0.173	0.290	0.204					
18	67.5	-207	FR1 n77_Ant 1 Sub TX0	0.557	0.290	0.204					

<Case 108>

SPLSR calculation for summation SAR>1.6W/kg

Exposure Position	0	1	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	WWAN SAR	WLAN/6GHz Ant 4+3	Bluetooth Ant 4	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1	LTE Band 48_Ant 7 TX1
Back	1g SAR (W/kg)																
LTE Band 48_Ant 7 TX1	0.446	0.359	0.204	1.188	1.239	1.290	1.341	1.392	1.443	1.494	1.545	1.596	1.647	1.698	1.749	1.800	1.851
LTE Band 48_Ant 7 TX1	0.296	0.290	0.204	1.139	1.190	1.241	1.292	1.343	1.394	1.445	1.496	1.547	1.598	1.649	1.700	1.751	1.802
FR1 n48_Ant 7 TX1	0.358	0.290	0.204	1.191	1.242	1.293	1.344	1.395	1.446	1.497	1.548	1.599	1.650	1.701	1.752	1.803	1.854
FR1 n77_Ant 7 TX1	0.557	0.290	0.204	1.450	1.501	1.552	1.603	1.654	1.705	1.756	1.807	1.858	1.909	1.960	2.011	2.062	2.113
FR1 n77_Ant 7 TX1	0.557	0.290	0.204	1.450	1.501	1.552	1.603	1.654	1.705	1.756	1.807	1.858	1.909	1.960	2.011	2.062	2.113

Exposure Position	X (axis)	Y (axis)	Z (axis)	SAR Peak Location (mm)																
				0	1	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Back				1g SAR (W/kg)																
LTE Band 48_Ant 7 TX1	0.446	0.359	0.204	1.188	1.239	1.290	1.341	1.392	1.443	1.494	1.545	1.596	1.647	1.698	1.749	1.800	1.851			
LTE Band 48_Ant 7 TX1	0.296	0.290	0.204	1.139	1.190	1.241	1.292	1.343	1.394	1.445	1.496	1.547	1.598	1.649	1.700	1.751	1.802			
FR1 n48_Ant 7 TX1	0.358	0.290	0.204	1.191	1.242	1.293	1.344	1.395	1.446	1.497	1.548	1.599	1.650	1.701	1.752	1.803	1.854			
FR1 n77_Ant 7 TX1	0.557	0.290	0.204	1.450	1.501	1.552	1.603	1.654	1.705	1.756	1.807	1.858	1.909	1.960	2.011	2.062	2.113			
FR1 n77_Ant 7 TX1	0.557	0.290	0.204	1.450	1.501	1.552	1.603	1.654	1.705	1.756	1.807	1.858	1.909	1.960	2.011	2.062	2.113			