

Sensor Off:

Front									
Band		Ant1			Ant4				
GSM850	SAR (W/kg)								
	Axis								
GSM1900	SAR (W/kg)	0.332							
	Axis	-25	70.5	-204					
WCDMA II	SAR (W/kg)	0.739							
	Axis	-55	72.2	-203.6					
WCDMA IV	SAR (W/kg)	0.179							
	Axis	-40	67.2	-203.7					
WCDMA V	SAR (W/kg)								
	Axis								
LTE Band 12	SAR (W/kg)								
	Axis								
LTE Band 13	SAR (W/kg)								
	Axis								
LTE Band 25	SAR (W/kg)	0.689			0.625				
	Axis	-55	84.2	-203.7	-10	-74.7	-203.6		
LTE Band 26	SAR (W/kg)								
	Axis								
LTE Band 66	SAR (W/kg)	0.656			0.325				
	Axis	-55	83	-203.7	-40	-80.2	-203.6		
LTE Band 7	SAR (W/kg)	0.581			0.387				
	Axis	-25	70.8	-203.7	-45	-77.9	-203.6		
LTE Band 41	SAR (W/kg)	0.177			0.259				
	Axis	-25	76.5	-203.4	-45	-78.8	-203.6		
LTE Band 42	SAR (W/kg)								
	Axis								
FR1 n2	SAR (W/kg)	0.692			0.397				
	Axis	-55	78.5	-203.6	-10	-76.8	-203.6		
FR1 n5	SAR (W/kg)								
	Axis								
FR1 n7	SAR (W/kg)	0.678			0.427				
	Axis	-5	81.2	-203.6	-45	-82.1	-203.8		
FR1 n26	SAR (W/kg)								
	Axis								
FR1 n66	SAR (W/kg)	0.554			0.37				
	Axis	-25	63.6	-203.8	-40	-69.5	-203.5		
FR1 n41	SAR (W/kg)	0.386							
	Axis	-55	78.9	-203.9					
FR1 n78	SAR (W/kg)								
	Axis								
Front									
WLAN2.4GHz Ant 6+8	SAR	0.158				WLAN5GHz Ant 5+8	SAR	0.323	
	Axis	-15	-62.6	-202.8			Axis	-35	-81.3

Back									
Band		Ant1			Ant2			Ant4	
GSM850	SAR (W/kg)								
	Axis								
GSM1900	SAR (W/kg)	0.305							
	Axis	-25	67.8	-203					
WCDMA II	SAR (W/kg)	0.603							
	Axis	-25	72	-203.7					
WCDMA IV	SAR (W/kg)	0.158							
	Axis	-40	57.1	-203.7					
WCDMA V	SAR (W/kg)								
	Axis								
LTE Band 12	SAR (W/kg)								
	Axis								
LTE Band 13	SAR (W/kg)								
	Axis								
LTE Band 25	SAR (W/kg)	0.511						0.464	
	Axis	-10	64.5	-203.8				-25	-81
LTE Band 26	SAR (W/kg)								
	Axis								
LTE Band 66	SAR (W/kg)	0.46						0.25	
	Axis	-25	67.7	-203.5				-25	-75.6
LTE Band 7	SAR (W/kg)	0.486						0.386	
	Axis	-15	63.8	-203.7				-15	-89.3
LTE Band 41	SAR (W/kg)	0.183						0.274	
	Axis	-15	70.1	-203.4				-15	-86
LTE Band 42	SAR (W/kg)				0.043				
	Axis				-65	-80.2	-203.9		
FR1 n2	SAR (W/kg)	0.661						0.31	
	Axis	-25	70.1	-203.7				-40	-82.7
FR1 n5	SAR (W/kg)								
	Axis								
FR1 n7	SAR (W/kg)	0.421						0.385	
	Axis	-5	75.8	-203.7				-15	-84.2
FR1 n26	SAR (W/kg)								
	Axis								
FR1 n66	SAR (W/kg)	0.397						0.355	
	Axis	-25	68.3	-203.6				-25	-81.7
FR1 n41	SAR (W/kg)	0.31							
	Axis	-5	70.9	-203.9					
FR1 n78	SAR (W/kg)				0.346				
	Axis				-65	-74.8	-203.9		
Back									
WLAN2.4GHz Ant 6+8	SAR	0.129				WLAN5GHz Ant 5+8	SAR Axis	0.625	
	Axis	-35	-68.3	-202.8				-15	-94.6

Extremity:

		Front								
Band		Ant1			Ant2			Ant4		
GSM850	SAR (W/kg)									
	Axis									
GSM1900	SAR (W/kg)	2.045								
	Axis	-40	84.2	-201.8						
WCDMA II	SAR (W/kg)	2.742								
	Axis	-40	75.2	-201.6						
WCDMA IV	SAR (W/kg)	2.786								
	Axis	-40	85.4	-201.5						
WCDMA V	SAR (W/kg)									
	Axis									
LTE Band 12	SAR (W/kg)									
	Axis									
LTE Band 13	SAR (W/kg)									
	Axis									
LTE Band 25	SAR (W/kg)	2.333						0.792		
	Axis	-54.4	79.4	-207				5	-67.1	-201.8
LTE Band 26	SAR (W/kg)									
	Axis									
LTE Band 66	SAR (W/kg)	1.792						0.953		
	Axis	-55	74.8	-203.8				5	-82.8	-203.2
LTE Band 7	SAR (W/kg)	0.844						0.847		
	Axis	-55	71.6	-203.8				-35	-88.6	-201.7
LTE Band 41	SAR (W/kg)	1.098						1.008		
	Axis	-55	73.4	-203.8				-15	-90.5	-201.6
LTE Band 42	SAR (W/kg)				0.971					
	Axis				15	-51.5	-203.6			
FR1 n2	SAR (W/kg)	2.547						0.652		
	Axis	-49.3	89.8	-208				-10	-63.9	-201.8
FR1 n5	SAR (W/kg)									
	Axis									
FR1 n7	SAR (W/kg)	1.921						0.853		
	Axis	-45	85.3	-203.6				-34.2	-87.6	-207
FR1 n26	SAR (W/kg)									
	Axis									
FR1 n66	SAR (W/kg)	1.84						0.571		
	Axis	-40	83	-201.7				-10	-53.4	-201.9
FR1 n41	SAR (W/kg)	1.674								
	Axis	-45	83.2	-201.7						
FR1 n78	SAR (W/kg)				0.912					
	Axis				5	-62.2	-203.3			
Front										
WLAN5GHz Ant 5+8	SAR	0.476			NFC	SAR	0.001			
	Axis	-35	-80.4	-203		Axis	-10.5	100.5	-177	

Band		Back											
		Ant1			Ant2			Ant4			Ant11		
GSM850	SAR (W/kg)												
	Axis												
GSM1900	SAR (W/kg)												
	Axis												
WCDMA II	SAR (W/kg)												
	Axis												
WCDMA IV	SAR (W/kg)												
	Axis												
WCDMA V	SAR (W/kg)												
	Axis												
LTE Band 12	SAR (W/kg)												
	Axis												
LTE Band 13	SAR (W/kg)												
	Axis												
LTE Band 25	SAR (W/kg)							0.762					
	Axis							-40	-76	-201.7			
LTE Band 26	SAR (W/kg)												
	Axis												
LTE Band 66	SAR (W/kg)							1.225					
	Axis							-40	-77.5	-203.3			
LTE Band 7	SAR (W/kg)		0.571					0.709					
	Axis	-13	99.3	-201.9				-65	-72	-201.6			
LTE Band 41	SAR (W/kg)		1.818					0.772					
	Axis	-14.1	79.7	-208.9				-45	-80.3	-201.6			
LTE Band 42	SAR (W/kg)					1.186							
	Axis					-65	-60.7	-203.8					
FR1 n2	SAR (W/kg)		1.942					0.773					
	Axis	-10	86.4	-201.9				-55	-63.1	-201.8			
FR1 n5	SAR (W/kg)												
	Axis												
FR1 n7	SAR (W/kg)		2.139					0.744					
	Axis	-15	83.9	-203.5				-59	-71.5	-207			
FR1 n26	SAR (W/kg)												
	Axis												
FR1 n66	SAR (W/kg)							1.064					
	Axis							-53	-75	-207			
FR1 n41	SAR (W/kg)		1.611										
	Axis	-5	80.8	-201.7									
FR1 n78	SAR (W/kg)					1					1.997		
	Axis					-65	-52.6	-203.4			1.9	66.6	-207
Back													
WLAN5GHz	SAR	0.762			NFC	SAR	0.045						
Ant 5+8	Axis	-15	-76.4	-203		Axis	4.5	30.5	-177				

18.3. Simultaneous Transmission Summation Scenario

Head Exposure Conditions:

WWAN Band	Exposure Position	1	2	3	5	1+2	1+3	1+5	Case No
		WWAN	WLAN2.4GHz Ant 6+8	WLAN5GHz Ant 5+8	Bluetooth Ant 6	Summed			
		1g SAR (W/kg)				1g SAR (W/kg)			
GSM850 ANT0	Right Cheek	0.112	0.247	0.521	0.105	0.359	0.633	0.217	
	Right Tilted	0.072	0.293	0.595	0.103	0.365	0.667	0.175	
	Left Cheek	0.133	0.545	0.637	0.266	0.678	0.770	0.399	
	Left Tilted	0.081	0.455	0.558	0.167	0.536	0.639	0.248	
GSM1900 ANT1	Right Cheek	0.194	0.247	0.521	0.105	0.441	0.715	0.299	
	Right Tilted	0.109	0.293	0.595	0.103	0.402	0.704	0.212	
	Left Cheek	0.099	0.545	0.637	0.266	0.644	0.736	0.365	
	Left Tilted	0.064	0.455	0.558	0.167	0.519	0.622	0.231	
WCDMA II ANT1	Right Cheek	0.393	0.247	0.521	0.105	0.640	0.914	0.498	
	Right Tilted	0.204	0.293	0.595	0.103	0.497	0.799	0.307	
	Left Cheek	0.185	0.545	0.637	0.266	0.730	0.822	0.451	
	Left Tilted	0.129	0.455	0.558	0.167	0.584	0.687	0.296	
WCDMA IV ANT1	Right Cheek	0.182	0.247	0.521	0.105	0.429	0.703	0.287	
	Right Tilted	0.118	0.293	0.595	0.103	0.411	0.713	0.221	
	Left Cheek	0.197	0.545	0.637	0.266	0.742	0.834	0.463	
	Left Tilted	0.126	0.455	0.558	0.167	0.581	0.684	0.293	
WCDMA V ANT0	Right Cheek	0.222	0.247	0.521	0.105	0.469	0.743	0.327	
	Right Tilted	0.159	0.293	0.595	0.103	0.452	0.754	0.262	
	Left Cheek	0.220	0.545	0.637	0.266	0.765	0.857	0.486	
	Left Tilted	0.216	0.455	0.558	0.167	0.671	0.774	0.383	
LTE Band 12(B17) ANT0	Right Cheek	0.128	0.247	0.521	0.105	0.375	0.649	0.233	
	Right Tilted	0.084	0.293	0.595	0.103	0.377	0.679	0.187	
	Left Cheek	0.183	0.545	0.637	0.266	0.728	0.820	0.449	
	Left Tilted	0.092	0.455	0.558	0.167	0.547	0.650	0.259	
LTE Band 12(B17) ANT4	Right Cheek	0.981	0.247	0.521	0.105	1.228	1.502	1.086	
	Right Tilted	0.291	0.293	0.595	0.103	0.584	0.886	0.394	
	Left Cheek	0.295	0.545	0.637	0.266	0.840	0.932	0.561	
	Left Tilted	0.138	0.455	0.558	0.167	0.593	0.696	0.305	
LTE Band 13 ANT0	Right Cheek	0.103	0.247	0.521	0.105	0.350	0.624	0.208	
	Right Tilted	0.076	0.293	0.595	0.103	0.369	0.671	0.179	
	Left Cheek	0.105	0.545	0.637	0.266	0.650	0.742	0.371	
	Left Tilted	0.103	0.455	0.558	0.167	0.558	0.661	0.270	
LTE Band 13 ANT4	Right Cheek	0.764	0.247	0.521	0.105	1.011	1.285	0.869	
	Right Tilted	0.716	0.293	0.595	0.103	1.009	1.311	0.819	
	Left Cheek	0.272	0.545	0.637	0.266	0.817	0.909	0.538	
	Left Tilted	0.263	0.455	0.558	0.167	0.718	0.821	0.430	
LTE Band 26(B5) ANT0	Right Cheek	0.174	0.247	0.521	0.105	0.421	0.695	0.279	
	Right Tilted	0.148	0.293	0.595	0.103	0.441	0.743	0.251	
	Left Cheek	0.172	0.545	0.637	0.266	0.717	0.809	0.438	

	Left Tilted	0.070	0.455	0.558	0.167	0.525	0.628	0.237	
LTE Band 26(B5) ANT4	Right Cheek	0.746	0.247	0.521	0.105	0.993	1.267	0.851	
	Right Tilted	0.709	0.293	0.595	0.103	1.002	1.304	0.812	
	Left Cheek	0.408	0.545	0.637	0.266	0.953	1.045	0.674	
	Left Tilted	0.356	0.455	0.558	0.167	0.811	0.914	0.523	
LTE Band 66(B4) ANT1	Right Cheek	0.251	0.247	0.521	0.105	0.498	0.772	0.356	
	Right Tilted	0.158	0.293	0.595	0.103	0.451	0.753	0.261	
	Left Cheek	0.196	0.545	0.637	0.266	0.741	0.833	0.462	
	Left Tilted	0.143	0.455	0.558	0.167	0.598	0.701	0.310	
LTE Band 66(B4) ANT4	Right Cheek	0.812	0.247	0.521	0.105	1.059	1.333	0.917	
	Right Tilted	0.842	0.293	0.595	0.103	1.135	1.437	0.945	
	Left Cheek	0.508	0.545	0.637	0.266	1.053	1.145	0.774	
	Left Tilted	0.743	0.455	0.558	0.167	1.198	1.301	0.910	
LTE Band 25(B2) ANT1	Right Cheek	0.281	0.247	0.521	0.105	0.528	0.802	0.386	
	Right Tilted	0.127	0.293	0.595	0.103	0.420	0.722	0.230	
	Left Cheek	0.136	0.545	0.637	0.266	0.681	0.773	0.402	
	Left Tilted	0.069	0.455	0.558	0.167	0.524	0.627	0.236	
LTE Band 25(B2) ANT4	Right Cheek	0.816	0.247	0.521	0.105	1.063	1.337	0.921	
	Right Tilted	0.658	0.293	0.595	0.103	0.951	1.253	0.761	
	Left Cheek	0.727	0.545	0.637	0.266	1.272	1.364	0.993	
	Left Tilted	0.658	0.455	0.558	0.167	1.113	1.216	0.825	
LTE Band 41(B38) ANT1	Right Cheek	0.120	0.247	0.521	0.105	0.367	0.641	0.225	
	Right Tilted	0.052	0.293	0.595	0.103	0.345	0.647	0.155	
	Left Cheek	0.046	0.545	0.637	0.266	0.591	0.683	0.312	
	Left Tilted	0.057	0.455	0.558	0.167	0.512	0.615	0.224	
LTE Band 41(B38) ANT4	Right Cheek	0.671	0.247	0.521	0.105	0.918	1.192	0.776	
	Right Tilted	0.775	0.293	0.595	0.103	1.068	1.370	0.878	
	Left Cheek	0.741	0.545	0.637	0.266	1.286	1.378	1.007	
	Left Tilted	0.786	0.455	0.558	0.167	1.241	1.344	0.953	
LTE Band 7 ANT1	Right Cheek	0.257	0.247	0.521	0.105	0.504	0.778	0.362	
	Right Tilted	0.078	0.293	0.595	0.103	0.371	0.673	0.181	
	Left Cheek	0.100	0.545	0.637	0.266	0.645	0.737	0.366	
	Left Tilted	0.098	0.455	0.558	0.167	0.553	0.656	0.265	
LTE Band 7 ANT4	Right Cheek	0.651	0.247	0.521	0.105	0.898	1.172	0.756	
	Right Tilted	0.748	0.293	0.595	0.103	1.041	1.343	0.851	
	Left Cheek	0.741	0.545	0.637	0.266	1.286	1.378	1.007	
	Left Tilted	0.882	0.455	0.558	0.167	1.337	1.440	1.049	
LTE Band 42 ANT2	Right Cheek	0.678	0.247	0.521	0.105	0.925	1.199	0.783	
	Right Tilted	0.300	0.293	0.595	0.103	0.593	0.895	0.403	
	Left Cheek	0.233	0.545	0.637	0.266	0.778	0.870	0.499	
	Left Tilted	0.132	0.455	0.558	0.167	0.587	0.690	0.299	
FR1 n2 ANT1	Right Cheek	0.252	0.247	0.521	0.105	0.499	0.773	0.357	
	Right Tilted	0.171	0.293	0.595	0.103	0.464	0.766	0.274	
	Left Cheek	0.194	0.545	0.637	0.266	0.739	0.831	0.460	
	Left Tilted	0.125	0.455	0.558	0.167	0.580	0.683	0.292	
FR1 n2 ANT4	Right Cheek	0.744	0.247	0.521	0.105	0.991	1.265	0.849	

	Right Tilted	0.330	0.293	0.595	0.103	0.623	0.925	0.433	
	Left Cheek	0.212	0.545	0.637	0.266	0.757	0.849	0.478	
	Left Tilted	0.300	0.455	0.558	0.167	0.755	0.858	0.467	
FR1 n7 ANT1	Right Cheek	0.277	0.247	0.521	0.105	0.524	0.798	0.382	
	Right Tilted	0.105	0.293	0.595	0.103	0.398	0.700	0.208	
	Left Cheek	0.178	0.545	0.637	0.266	0.723	0.815	0.444	
	Left Tilted	0.089	0.455	0.558	0.167	0.544	0.647	0.256	
FR1 n7 ANT4	Right Cheek	0.649	0.247	0.521	0.105	0.896	1.170	0.754	
	Right Tilted	0.698	0.293	0.595	0.103	0.991	1.293	0.801	
	Left Cheek	0.731	0.545	0.637	0.266	1.276	1.368	0.997	
	Left Tilted	0.863	0.455	0.558	0.167	1.318	1.421	1.030	
FR1 n26 ANT0	Right Cheek	0.096	0.247	0.521	0.105	0.343	0.617	0.201	
	Right Tilted	0.043	0.293	0.595	0.103	0.336	0.638	0.146	
	Left Cheek	0.221	0.545	0.637	0.266	0.766	0.858	0.487	
	Left Tilted	0.038	0.455	0.558	0.167	0.493	0.596	0.205	
FR1 n26 ANT4	Right Cheek	0.710	0.247	0.521	0.105	0.957	1.231	0.815	
	Right Tilted	0.552	0.293	0.595	0.103	0.845	1.147	0.655	
	Left Cheek	0.348	0.545	0.637	0.266	0.893	0.985	0.614	
	Left Tilted	0.277	0.455	0.558	0.167	0.732	0.835	0.444	
FR1 n5 ANT0	Right Cheek	0.118	0.247	0.521	0.105	0.365	0.639	0.223	
	Right Tilted	0.081	0.293	0.595	0.103	0.374	0.676	0.184	
	Left Cheek	0.377	0.545	0.637	0.266	0.922	1.014	0.643	
	Left Tilted	0.095	0.455	0.558	0.167	0.550	0.653	0.262	
FR1 n5 ANT4	Right Cheek	0.722	0.247	0.521	0.105	0.969	1.243	0.827	
	Right Tilted	0.883	0.293	0.595	0.103	1.176	1.478	0.986	
	Left Cheek	0.248	0.545	0.637	0.266	0.793	0.885	0.514	
	Left Tilted	0.247	0.455	0.558	0.167	0.702	0.805	0.414	
FR1 n41(n38) ANT1	Right Cheek	0.246	0.247	0.521	0.105	0.493	0.767	0.351	
	Right Tilted	0.126	0.293	0.595	0.103	0.419	0.721	0.229	
	Left Cheek	0.127	0.545	0.637	0.266	0.672	0.764	0.393	
	Left Tilted	0.127	0.455	0.558	0.167	0.582	0.685	0.294	
FR1 n66 ANT1	Right Cheek	0.251	0.247	0.521	0.105	0.498	0.772	0.356	
	Right Tilted	0.135	0.293	0.595	0.103	0.428	0.730	0.238	
	Left Cheek	0.224	0.545	0.637	0.266	0.769	0.861	0.490	
	Left Tilted	0.105	0.455	0.558	0.167	0.560	0.663	0.272	
FR1 n66 ANT4	Right Cheek	0.902	0.247	0.521	0.105	1.149	1.423	1.007	
	Right Tilted	0.410	0.293	0.595	0.103	0.703	1.005	0.513	
	Left Cheek	0.465	0.545	0.637	0.266	1.010	1.102	0.731	
	Left Tilted	0.712	0.455	0.558	0.167	1.167	1.270	0.879	
FR1 n78 ANT2	Right Cheek	0.846	0.247	0.521	0.105	1.093	1.367	0.951	
	Right Tilted	0.405	0.293	0.595	0.103	0.698	1.000	0.508	
	Left Cheek	0.263	0.545	0.637	0.266	0.808	0.900	0.529	
	Left Tilted	0.213	0.455	0.558	0.167	0.668	0.771	0.380	
FR1 n78 ANT5	Right Cheek	0.283	0.247	0.521	0.105	0.530	0.804	0.388	
	Right Tilted	0.251	0.293	0.595	0.103	0.544	0.846	0.354	
	Left Cheek	0.377	0.545	0.637	0.266	0.922	1.014	0.643	

	Left Tilted	0.436	0.455	0.558	0.167	0.891	0.994	0.603	
FR1 n78 ANT11	Right Cheek	0.138	0.247	0.521	0.105	0.385	0.659	0.243	
	Right Tilted	0.053	0.293	0.595	0.103	0.346	0.648	0.156	
	Left Cheek	0.097	0.545	0.637	0.266	0.642	0.734	0.363	
	Left Tilted	0.109	0.455	0.558	0.167	0.564	0.667	0.276	
FR1 n78 ANT7	Right Cheek	0.324	0.247	0.521	0.105	0.571	0.845	0.429	
	Right Tilted	0.062	0.293	0.595	0.103	0.355	0.657	0.165	
	Left Cheek	0.141	0.545	0.637	0.266	0.686	0.778	0.407	
	Left Tilted	0.117	0.455	0.558	0.167	0.572	0.675	0.284	

Body-Worn Exposure Conditions:

WWAN Band	Exposure Position	1	2	3	5	1+2	1+3	1+5	Case No
		WWAN	WLAN2.4GHz Ant 6+8	WLAN5GHz Ant 5+8	Bluetooth Ant 6	Summed			
		1g SAR (W/kg)				1g SAR (W/kg)			
GSM850 ANT0	Front	0.394	0.376	0.598	0.073	0.770	0.992	0.467	01
	Back	0.925	0.651	0.939	0.181	1.576	1.864	1.106	
GSM1900 ANT1	Front	0.635	0.376	0.598	0.073	1.011	1.233	0.708	02
	Back	0.860	0.651	0.939	0.181	1.511	1.799	1.041	
WCDMA II ANT1	Front	0.807	0.376	0.598	0.073	1.183	1.405	0.880	03&04
	Back	1.118	0.651	0.939	0.181	1.769	2.057	1.299	
WCDMA IV ANT1	Front	0.922	0.376	0.598	0.073	1.298	1.520	0.995	05&06
	Back	1.274	0.651	0.939	0.181	1.925	2.213	1.455	
WCDMA V ANT0	Front	0.644	0.376	0.598	0.073	1.020	1.242	0.717	07&08
	Back	1.143	0.651	0.939	0.181	1.794	2.082	1.324	
LTE Band 12(B17) ANT0	Front	0.532	0.376	0.598	0.073	0.908	1.130	0.605	09
	Back	0.769	0.651	0.939	0.181	1.420	1.708	0.950	
LTE Band 12(B17) ANT4	Front	0.323	0.376	0.598	0.073	0.699	0.921	0.396	10
	Back	0.778	0.651	0.939	0.181	1.429	1.717	0.959	
LTE Band 13 ANT0	Front	0.407	0.376	0.598	0.073	0.783	1.005	0.480	39
	Back	0.657	0.651	0.939	0.181	1.308	1.596	0.838	
LTE Band 13 ANT4	Front	0.339	0.376	0.598	0.073	0.715	0.937	0.412	
	Back	0.489	0.651	0.939	0.181	1.140	1.428	0.670	
LTE Band 26(B5) ANT0	Front	0.541	0.376	0.598	0.073	0.917	1.139	0.614	11&12
	Back	1.102	0.651	0.939	0.181	1.753	2.041	1.283	
LTE Band 26(B5) ANT4	Front	0.387	0.376	0.598	0.073	0.763	0.985	0.460	
	Back	0.560	0.651	0.939	0.181	1.211	1.499	0.741	
LTE Band 66(B4) ANT1	Front	0.792	0.376	0.598	0.073	1.168	1.390	0.865	13&14
	Back	1.269	0.651	0.939	0.181	1.920	2.208	1.450	
LTE Band 66(B4) ANT4	Front	0.268	0.376	0.598	0.073	0.644	0.866	0.341	15
	Back	0.754	0.651	0.939	0.181	1.405	1.693	0.935	
LTE Band 25(B2) ANT1	Front	0.696	0.376	0.598	0.073	1.072	1.294	0.769	16&17
	Back	1.111	0.651	0.939	0.181	1.762	2.050	1.292	
LTE Band 25(B2) ANT4	Front	0.292	0.376	0.598	0.073	0.668	0.890	0.365	18
	Back	0.736	0.651	0.939	0.181	1.387	1.675	0.917	
LTE Band 41(B38) ANT1	Front	0.489	0.376	0.598	0.073	0.865	1.087	0.562	
	Back	0.551	0.651	0.939	0.181	1.202	1.490	0.732	
LTE Band 41(B38) ANT4	Front	0.522	0.376	0.598	0.073	0.898	1.120	0.595	19
	Back	0.735	0.651	0.939	0.181	1.386	1.674	0.916	
LTE Band 7 ANT1	Front	0.654	0.376	0.598	0.073	1.030	1.252	0.727	20&21
	Back	0.988	0.651	0.939	0.181	1.639	1.927	1.169	
LTE Band 7 ANT4	Front	0.480	0.376	0.598	0.073	0.856	1.078	0.553	22
	Back	0.785	0.651	0.939	0.181	1.436	1.724	0.966	
LTE Band 42 ANT2	Front	0.327	0.376	0.598	0.073	0.703	0.925	0.400	23
	Back	0.677	0.651	0.939	0.181	1.328	1.616	0.858	

FR1 n2 ANT1	Front	0.699	0.376	0.598	0.073	1.075	1.297	0.772	
	Back	1.228	0.651	0.939	0.181	1.879	2.167	1.409	24&25
FR1 n2 ANT4	Front	0.319	0.376	0.598	0.073	0.695	0.917	0.392	
	Back	0.810	0.651	0.939	0.181	1.461	1.749	0.991	26
FR1 n7 ANT1	Front	0.613	0.376	0.598	0.073	0.989	1.211	0.686	
	Back	0.966	0.651	0.939	0.181	1.617	1.905	1.147	27&28
FR1 n7 ANT4	Front	0.585	0.376	0.598	0.073	0.961	1.183	0.658	
	Back	0.842	0.651	0.939	0.181	1.493	1.781	1.023	29
FR1 n26 ANT0	Front	0.299	0.376	0.598	0.073	0.675	0.897	0.372	
	Back	0.835	0.651	0.939	0.181	1.486	1.774	1.016	30
FR1 n26 ANT4	Front	0.204	0.376	0.598	0.073	0.580	0.802	0.277	
	Back	0.329	0.651	0.939	0.181	0.980	1.268	0.510	
FR1 n5 ANT0	Front	0.290	0.376	0.598	0.073	0.666	0.888	0.363	
	Back	1.119	0.651	0.939	0.181	1.770	2.058	1.300	31&32
FR1 n5 ANT4	Front	0.250	0.376	0.598	0.073	0.626	0.848	0.323	
	Back	0.465	0.651	0.939	0.181	1.116	1.404	0.646	
FR1 n41(n38) ANT1	Front	0.489	0.376	0.598	0.073	0.865	1.087	0.562	
	Back	0.551	0.651	0.939	0.181	1.202	1.490	0.732	
FR1 n66 ANT1	Front	0.877	0.376	0.598	0.073	1.253	1.475	0.950	
	Back	1.158	0.651	0.939	0.181	1.809	2.097	1.339	33&34
FR1 n66 ANT4	Front	0.245	0.376	0.598	0.073	0.621	0.843	0.318	
	Back	0.801	0.651	0.939	0.181	1.452	1.740	0.982	35
FR1 n78 ANT2	Front	0.382	0.376	0.598	0.073	0.758	0.980	0.455	
	Back	0.927	0.651	0.939	0.181	1.578	1.866	1.108	36
FR1 n78 ANT5	Front	0.152	0.376	0.598	0.073	0.528	0.750	0.225	
	Back	0.314	0.651	0.939	0.181	0.965	1.253	0.495	
FR1 n78 ANT11	Front	0.599	0.376	0.598	0.073	0.975	1.197	0.672	
	Back	1.067	0.651	0.939	0.181	1.718	2.006	1.248	37&38
FR1 n78 ANT7	Front	0.070	0.376	0.598	0.073	0.446	0.668	0.143	
	Back	0.154	0.651	0.939	0.181	0.805	1.093	0.335	

Sensor Off:

Scenario 01:

WWAN Band	Exposure Position	1	2	3	5	1+2	1+3	1+5	Case No
		WWAN	WLAN2.4GHz Ant 6+8	WLAN5GHz Ant 5+8	Bluetooth Ant 6	Summed			
		1g SAR (W/kg)				1g SAR (W/kg)			
GSM1900 ANT1	Front	0.332	0.158	0.391	0.073	0.490	0.723	0.405	
	Back	0.305	0.129	0.625	0.181	0.434	0.930	0.486	
WCDMA II ANT1	Front	0.739	0.158	0.391	0.067	0.897	1.130	0.806	
	Back	0.603	0.129	0.625	0.166	0.732	1.228	0.769	
WCDMA IV ANT1	Front	0.179	0.158	0.391	0.067	0.337	0.570	0.246	
	Back	0.158	0.129	0.625	0.166	0.287	0.783	0.324	
LTE Band 66(B4) ANT1	Front	0.656	0.158	0.391	0.067	0.814	1.047	0.723	
	Back	0.460	0.129	0.625	0.166	0.589	1.085	0.626	
LTE Band 66(B4) ANT4	Front	0.325	0.158	0.391	0.067	0.483	0.716	0.392	
	Back	0.250	0.129	0.625	0.166	0.379	0.875	0.416	

LTE Band 25(B2) ANT1	Front	0.689	0.158	0.391	0.067	0.847	1.080	0.756	
	Back	0.511	0.129	0.625	0.166	0.640	1.136	0.677	
LTE Band 25(B2) ANT4	Front	0.625	0.158	0.391	0.067	0.783	1.016	0.692	
	Back	0.464	0.129	0.625	0.166	0.593	1.089	0.630	
LTE Band 41(B38) ANT1	Front	0.177	0.158	0.391	0.067	0.335	0.568	0.244	
	Back	0.183	0.129	0.625	0.166	0.312	0.808	0.349	
LTE Band 41(B38) ANT4	Front	0.259	0.158	0.391	0.067	0.417	0.650	0.326	
	Back	0.274	0.129	0.625	0.166	0.403	0.899	0.440	
LTE Band 7 ANT1	Front	0.581	0.158	0.391	0.067	0.739	0.972	0.648	
	Back	0.486	0.129	0.625	0.166	0.615	1.111	0.652	
LTE Band 7 ANT4	Front	0.387	0.158	0.391	0.067	0.545	0.778	0.454	
	Back	0.386	0.129	0.625	0.166	0.515	1.011	0.552	
LTE Band 42 ANT2	Front	0.041	0.158	0.391	0.067	0.199	0.432	0.108	
	Back	0.043	0.129	0.625	0.166	0.172	0.668	0.209	
FR1 n2 ANT1	Front	0.692	0.158	0.391	0.067	0.850	1.083	0.759	
	Back	0.661	0.129	0.625	0.166	0.790	1.286	0.827	
FR1 n2 ANT4	Front	0.397	0.158	0.391	0.067	0.555	0.788	0.464	
	Back	0.310	0.129	0.625	0.166	0.439	0.935	0.476	
FR1 n7 ANT1	Front	0.678	0.158	0.391	0.067	0.836	1.069	0.745	
	Back	0.421	0.129	0.625	0.166	0.550	1.046	0.587	
FR1 n7 ANT4	Front	0.427	0.158	0.391	0.067	0.585	0.818	0.494	
	Back	0.385	0.129	0.625	0.166	0.514	1.010	0.551	
FR1 n41(n38) ANT1	Front	0.386	0.158	0.391	0.067	0.544	0.777	0.453	
	Back	0.310	0.129	0.625	0.166	0.439	0.935	0.476	
FR1 n66 ANT1	Front	0.554	0.158	0.391	0.067	0.712	0.945	0.621	
	Back	0.397	0.129	0.625	0.166	0.526	1.022	0.563	
FR1 n66 ANT4	Front	0.370	0.158	0.391	0.067	0.528	0.761	0.437	
	Back	0.355	0.129	0.625	0.166	0.484	0.980	0.521	
FR1 n78 ANT2	Front	0.474	0.158	0.391	0.067	0.632	0.865	0.541	
	Back	0.346	0.129	0.625	0.166	0.475	0.971	0.512	
FR1 n78 ANT11	Front	0.222	0.158	0.391	0.067	0.380	0.613	0.289	
	Back	0.789	0.129	0.625	0.166	0.918	1.414	0.955	

Hotspot Exposure Conditions:

WWAN Band	Exposure Position	1	2	3	5	1+2	1+3	1+5	Case No
		WWAN	WLAN2.4GHz Ant 6+8	WLAN5GHz Ant 5+8	Bluetooth Ant 6	Summed			
		1g SAR (W/kg)				1g SAR (W/kg)			
GSM850 ANT0	Front	0.394	0.482	0.396	0.073	0.876	0.790	0.467	01
	Back	0.934	0.762	0.578	0.181	1.696	1.512	1.115	
	Left Side	0.543				0.543	0.543	0.543	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	0.491				0.491	0.491	0.491	
GSM1900 ANT1	Front	1.047	0.482	0.396	0.073	1.529	1.443	1.120	02&03
	Back	1.126	0.762	0.578	0.181	1.888	1.704	1.307	
	Left Side					0.000	0.000	0.000	
	Right Side	0.468	0.749	0.349	0.041	1.217	0.817	0.509	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	1.241				1.241	1.241	1.241	
WCDMA II ANT1	Front	0.757	0.482	0.396	0.073	1.239	1.153	0.830	04
	Back	0.935	0.762	0.578	0.181	1.697	1.513	1.116	
	Left Side					0.000	0.000	0.000	
	Right Side	0.324	0.749	0.349	0.041	1.073	0.673	0.365	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	1.037				1.037	1.037	1.037	
WCDMA IV ANT1	Front	0.554	0.482	0.396	0.073	1.036	0.950	0.627	
	Back	0.768	0.762	0.578	0.181	1.530	1.346	0.949	
	Left Side					0.000	0.000	0.000	
	Right Side	0.225	0.749	0.349	0.041	0.974	0.574	0.266	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	0.974				0.974	0.974	0.974	
WCDMA V ANT0	Front	0.644	0.482	0.396	0.073	1.126	1.040	0.717	05&06
	Back	1.143	0.762	0.578	0.181	1.905	1.721	1.324	
	Left Side	0.658				0.658	0.658	0.658	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	0.836				0.836	0.836	0.836	
LTE Band 12(B17) ANT0	Front	0.467	0.482	0.396	0.073	0.949	0.863	0.540	07&08
	Back	1.047	0.762	0.578	0.181	1.809	1.625	1.228	
	Left Side	0.623				0.623	0.623	0.623	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	0.645				0.645	0.645	0.645	
LTE Band 12(B17) ANT4	Front	0.274	0.482	0.396	0.073	0.756	0.670	0.347	
	Back	0.430	0.762	0.578	0.181	1.192	1.008	0.611	
	Left Side	0.403				0.403	0.403	0.403	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	

	Top Side	0.570	0.823	0.926	0.166	1.393	1.496	0.736	
	Bottom Side					0.000	0.000	0.000	
LTE Band 13 ANT0	Front	0.469	0.482	0.396	0.073	0.951	0.865	0.542	
	Back	0.657	0.762	0.578	0.181	1.419	1.235	0.838	
	Left Side	0.576				0.576	0.576	0.576	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	0.303				0.303	0.303	0.303	
LTE Band 13 ANT4	Front	0.223	0.482	0.396	0.073	0.705	0.619	0.296	
	Back	0.399	0.762	0.578	0.181	1.161	0.977	0.580	
	Left Side	0.223				0.223	0.223	0.223	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.411	0.823	0.926	0.166	1.234	1.337	0.577	
	Bottom Side					0.000	0.000	0.000	
LTE Band 26(B5) ANT0	Front	0.541	0.482	0.396	0.073	1.023	0.937	0.614	
	Back	1.152	0.762	0.578	0.181	1.914	1.730	1.333	09&10
	Left Side	0.635				0.635	0.635	0.635	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	0.715				0.715	0.715	0.715	
LTE Band 26(B5) ANT4	Front	0.301	0.482	0.396	0.073	0.783	0.697	0.374	
	Back	0.443	0.762	0.578	0.181	1.205	1.021	0.624	
	Left Side	0.191				0.191	0.191	0.191	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.543	0.823	0.926	0.166	1.366	1.469	0.709	
	Bottom Side					0.000	0.000	0.000	
LTE Band 66(B4) ANT1	Front	0.643	0.482	0.396	0.073	1.125	1.039	0.716	
	Back	0.855	0.762	0.578	0.181	1.617	1.433	1.036	11
	Left Side					0.000	0.000	0.000	
	Right Side	0.261	0.749	0.349	0.041	1.010	0.610	0.302	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	1.150				1.150	1.150	1.150	
LTE Band 66(B4) ANT4	Front	0.186	0.482	0.396	0.073	0.668	0.582	0.259	
	Back	0.509	0.762	0.578	0.181	1.271	1.087	0.690	
	Left Side	0.185				0.185	0.185	0.185	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.508	0.823	0.926	0.166	1.331	1.434	0.674	
	Bottom Side					0.000	0.000	0.000	
LTE Band 25(B2) ANT1	Front	0.816	0.482	0.396	0.073	1.298	1.212	0.889	
	Back	0.991	0.762	0.578	0.181	1.753	1.569	1.172	12
	Left Side					0.000	0.000	0.000	
	Right Side	0.330	0.749	0.349	0.041	1.079	0.679	0.371	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	1.298				1.298	1.298	1.298	
LTE Band 25(B2) ANT4	Front	0.216	0.482	0.396	0.073	0.698	0.612	0.289	
	Back	0.506	0.762	0.578	0.181	1.268	1.084	0.687	

	Left Side	0.174				0.174	0.174	0.174	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.560	0.823	0.926	0.166	1.383	1.486	0.726	
	Bottom Side					0.000	0.000	0.000	
LTE Band 41(B38) ANT1	Front	0.535	0.482	0.396	0.073	1.017	0.931	0.608	
	Back	0.716	0.762	0.578	0.181	1.478	1.294	0.897	
	Left Side					0.000	0.000	0.000	
	Right Side	0.241	0.749	0.349	0.041	0.990	0.590	0.282	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	1.375				1.375	1.375	1.375	
LTE Band 41(B38) ANT4	Front	0.293	0.482	0.396	0.073	0.775	0.689	0.366	
	Back	0.446	0.762	0.578	0.181	1.208	1.024	0.627	
	Left Side	0.081				0.081	0.081	0.081	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.587	0.823	0.926	0.166	1.410	1.513	0.753	
	Bottom Side					0.000	0.000	0.000	
LTE Band 7 ANT1	Front	0.584	0.482	0.396	0.073	1.066	0.980	0.657	
	Back	0.803	0.762	0.578	0.181	1.565	1.381	0.984	
	Left Side					0.000	0.000	0.000	
	Right Side	0.254	0.749	0.349	0.041	1.003	0.603	0.295	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	1.243				1.243	1.243	1.243	
LTE Band 7 ANT4	Front	0.232	0.482	0.396	0.073	0.714	0.628	0.305	
	Back	0.347	0.762	0.578	0.181	1.109	0.925	0.528	
	Left Side	0.067				0.067	0.067	0.067	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.542	0.823	0.926	0.166	1.365	1.468	0.708	
	Bottom Side					0.000	0.000	0.000	
LTE Band 42 ANT2	Front	0.139	0.482	0.396	0.073	0.621	0.535	0.212	
	Back	0.270	0.762	0.578	0.181	1.032	0.848	0.451	
	Left Side	0.609				0.609	0.609	0.609	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.432	0.823	0.926	0.166	1.255	1.358	0.598	
	Bottom Side					0.000	0.000	0.000	
FR1 n2 ANT1	Front	0.838	0.482	0.396	0.073	1.320	1.234	0.911	
	Back	0.976	0.762	0.578	0.181	1.738	1.554	1.157	13
	Left Side					0.000	0.000	0.000	
	Right Side	0.298	0.749	0.349	0.041	1.047	0.647	0.339	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	1.131				1.131	1.131	1.131	
FR1 n2 ANT4	Front	0.112	0.482	0.396	0.073	0.594	0.508	0.185	
	Back	0.486	0.762	0.578	0.181	1.248	1.064	0.667	
	Left Side	0.084				0.084	0.084	0.084	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.533	0.823	0.926	0.166	1.356	1.459	0.699	
	Bottom Side					0.000	0.000	0.000	

FR1 n7 ANT1	Front	0.501	0.482	0.396	0.073	0.983	0.897	0.574	
	Back	0.617	0.762	0.578	0.181	1.379	1.195	0.798	
	Left Side					0.000	0.000	0.000	
	Right Side	0.245	0.749	0.349	0.041	0.994	0.594	0.286	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	1.233				1.233	1.233	1.233	
FR1 n7 ANT4	Front	0.226	0.482	0.396	0.073	0.708	0.622	0.299	
	Back	0.392	0.762	0.578	0.181	1.154	0.970	0.573	
	Left Side	0.047				0.047	0.047	0.047	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.555	0.823	0.926	0.166	1.378	1.481	0.721	
	Bottom Side					0.000	0.000	0.000	
FR1 n26 ANT0	Front	0.306	0.482	0.396	0.073	0.788	0.702	0.379	
	Back	0.691	0.762	0.578	0.181	1.453	1.269	0.872	
	Left Side	0.399				0.399	0.399	0.399	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	0.370				0.370	0.370	0.370	
FR1 n26 ANT4	Front	0.216	0.482	0.396	0.073	0.698	0.612	0.289	
	Back	0.329	0.762	0.578	0.181	1.091	0.907	0.510	
	Left Side	0.173				0.173	0.173	0.173	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.522	0.823	0.926	0.166	1.345	1.448	0.688	
	Bottom Side					0.000	0.000	0.000	
FR1 n5 ANT0	Front	0.303	0.482	0.396	0.073	0.785	0.699	0.376	
	Back	1.220	0.762	0.578	0.181	1.982	1.798	1.401	14&15
	Left Side	0.349				0.349	0.349	0.349	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	0.339				0.339	0.339	0.339	
FR1 n5 ANT4	Front	0.228	0.482	0.396	0.073	0.710	0.624	0.301	
	Back	0.465	0.762	0.578	0.181	1.227	1.043	0.646	
	Left Side	0.145				0.145	0.145	0.145	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.432	0.823	0.926	0.166	1.255	1.358	0.598	
	Bottom Side					0.000	0.000	0.000	
FR1 n41(n38) ANT1	Front	0.510	0.482	0.396	0.073	0.992	0.906	0.583	
	Back	0.712	0.762	0.578	0.181	1.474	1.290	0.893	
	Left Side					0.000	0.000	0.000	
	Right Side	0.199	0.749	0.349	0.041	0.948	0.548	0.240	
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	1.191				1.191	1.191	1.191	
FR1 n66 ANT1	Front	0.679	0.482	0.396	0.073	1.161	1.075	0.752	
	Back	0.882	0.762	0.578	0.181	1.644	1.460	1.063	16
	Left Side					0.000	0.000	0.000	
	Right Side	0.279	0.749	0.349	0.041	1.028	0.628	0.320	

	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	1.144				1.144	1.144	1.144	
FR1 n66 ANT4	Front	0.152	0.482	0.396	0.073	0.634	0.548	0.225	
	Back	0.524	0.762	0.578	0.181	1.286	1.102	0.705	
	Left Side	0.154				0.154	0.154	0.154	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.460	0.823	0.926	0.166	1.283	1.386	0.626	
	Bottom Side					0.000	0.000	0.000	
FR1 n78 ANT2	Front	0.162	0.482	0.396	0.073	0.644	0.558	0.235	
	Back	0.317	0.762	0.578	0.181	1.079	0.895	0.498	
	Left Side	0.558				0.558	0.558	0.558	
	Right Side		0.749	0.349	0.041	0.749	0.349	0.041	
	Top Side	0.033	0.823	0.926	0.166	0.856	0.959	0.199	
	Bottom Side					0.000	0.000	0.000	
FR1 n78 ANT5	Front	0.185	0.482	0.396	0.073	0.667	0.581	0.258	
	Back	0.310	0.762	0.578	0.181	1.072	0.888	0.491	
	Left Side					0.000	0.000	0.000	
	Right Side	0.119	0.749	0.349	0.041	0.868	0.468	0.160	
	Top Side	0.399	0.823	0.926	0.166	1.222	1.325	0.565	
	Bottom Side					0.000	0.000	0.000	
FR1 n78 ANT11	Front	0.303	0.482	0.396	0.073	0.785	0.699	0.376	
	Back	0.650	0.762	0.578	0.181	1.412	1.228	0.831	
	Left Side					0.000	0.000	0.000	
	Right Side	1.157	0.749	0.349	0.041	1.906	1.506	1.198	17
	Top Side		0.823	0.926	0.166	0.823	0.926	0.166	
	Bottom Side	0.274				0.274	0.274	0.274	
FR1 n78 ANT7	Front	0.070	0.482	0.396	0.073	0.552	0.466	0.143	
	Back	0.149	0.762	0.578	0.181	0.911	0.727	0.330	
	Left Side					0.000	0.000	0.000	
	Right Side	0.275	0.749	0.349	0.041	1.024	0.624	0.316	
	Top Side	0.081	0.823	0.926	0.166	0.904	1.007	0.247	
	Bottom Side					0.000	0.000	0.000	

Product specific 10g SAR Exposure Conditions:

WWAN Band	Exposure Position	1	2	3	1+2+3	Case No
		WWAN	WLAN5GHz Ant 5+8	NFC	Summed	
		10g SAR (W/kg)			10g SAR (W/kg)	
GSM1900 ANT1	Front	2.045	0.476	0.001	2.522	
	Back	1.474	0.762	0.045	2.281	
	Left Side			0.002	0.002	
	Right Side	0.272	0.670	0.001	0.943	
	Top Side		0.904	0.001	0.905	
	Bottom Side	1.271		0.001	1.272	
WCDMA II ANT1	Front	2.742	0.476	0.001	3.219	
	Back	2.441	0.762	0.045	3.248	
	Left Side			0.002	0.002	
	Right Side	0.816	0.670	0.001	1.487	
	Top Side		0.904	0.001	0.905	
	Bottom Side	2.742		0.001	2.743	
WCDMA IV ANT1	Front	2.786	0.476	0.001	3.263	
	Back	1.190	0.762	0.045	1.997	
	Left Side			0.002	0.002	
	Right Side		0.670	0.001	0.671	
	Top Side		0.904	0.001	0.905	
	Bottom Side	2.248		0.001	2.249	
LTE Band 66(B4) ANT1	Front	1.792	0.476	0.001	2.269	
	Back	2.170	0.762	0.045	2.977	
	Left Side			0.002	0.002	
	Right Side	1.350	0.670	0.001	2.021	
	Top Side		0.904	0.001	0.905	
	Bottom Side	2.927		0.001	2.928	
LTE Band 66(B4) ANT4	Front	1.021	0.476	0.001	1.498	
	Back	1.225	0.762	0.045	2.032	
	Left Side	1.625		0.002	1.627	
	Right Side		0.670	0.001	0.671	
	Top Side	2.024	0.904	0.001	2.929	
	Bottom Side			0.001	0.001	
LTE Band 25(B2) ANT1	Front	2.333	0.476	0.001	2.810	
	Back	2.150	0.762	0.045	2.957	
	Left Side			0.002	0.002	
	Right Side	0.655	0.670	0.001	1.326	
	Top Side		0.904	0.001	0.905	
	Bottom Side	1.841		0.001	1.842	
LTE Band 25(B2) ANT4	Front	0.792	0.476	0.001	1.269	
	Back	0.762	0.762	0.045	1.569	
	Left Side	0.484		0.002	0.486	

	Right Side		0.670	0.001	0.671	
	Top Side	2.076	0.904	0.001	2.981	
	Bottom Side			0.001	0.001	
LTE Band 41(B38) ANT1	Front	1.098	0.476	0.001	1.575	
	Back	1.818	0.762	0.045	2.625	
	Left Side			0.002	0.002	
	Right Side	0.449	0.670	0.001	1.120	
	Top Side		0.904	0.001	0.905	
	Bottom Side	1.455		0.001	1.456	
LTE Band 41(B38) ANT4	Front	1.008	0.476	0.001	1.485	
	Back	0.772	0.762	0.045	1.579	
	Left Side	0.319		0.002	0.321	
	Right Side		0.670	0.001	0.671	
	Top Side	2.410	0.904	0.001	3.315	
	Bottom Side			0.001	0.001	
LTE Band 7 ANT1	Front	0.840	0.476	0.001	1.317	
	Back	0.571	0.762	0.045	1.378	
	Left Side			0.002	0.002	
	Right Side	0.551	0.670	0.001	1.222	
	Top Side		0.904	0.001	0.905	
	Bottom Side	2.895		0.001	2.896	
LTE Band 7 ANT4	Front	0.847	0.476	0.001	1.324	
	Back	0.709	0.762	0.045	1.516	
	Left Side	0.218		0.002	0.220	
	Right Side		0.670	0.001	0.671	
	Top Side	2.049	0.904	0.001	2.954	
	Bottom Side			0.001	0.001	
LTE Band 42 ANT2	Front	0.971	0.476	0.001	1.448	
	Back	1.186	0.762	0.045	1.993	
	Left Side	2.399		0.002	2.401	
	Right Side		0.670	0.001	0.671	
	Top Side	1.900	0.904	0.001	2.805	
	Bottom Side			0.001	0.001	
FR1 n2 ANT1	Front	2.547	0.476	0.001	3.024	
	Back	1.942	0.762	0.045	2.749	
	Left Side			0.002	0.002	
	Right Side	0.732	0.670	0.001	1.403	
	Top Side		0.904	0.001	0.905	
	Bottom Side	1.727		0.001	1.728	
FR1 n2 ANT4	Front	0.652	0.476	0.001	1.129	
	Back	0.773	0.762	0.045	1.580	
	Left Side	0.268		0.002	0.270	
	Right Side		0.670	0.001	0.671	
	Top Side	2.022	0.904	0.001	2.927	
	Bottom Side			0.001	0.001	
FR1 n7 ANT1	Front	1.921	0.476	0.001	2.398	

	Back	2.139	0.762	0.045	2.946	
	Left Side			0.002	0.002	
	Right Side	0.625	0.670	0.001	1.296	
	Top Side		0.904	0.001	0.905	
	Bottom Side	2.830		0.001	2.831	
FR1 n7 ANT4	Front	0.853	0.476	0.001	1.330	
	Back	0.744	0.762	0.045	1.551	
	Left Side	0.268		0.002	0.270	
	Right Side		0.670	0.001	0.671	
	Top Side	2.121	0.904	0.001	3.026	
	Bottom Side			0.001	0.001	
FR1 n41(n38) ANT1	Front	1.674	0.476	0.001	2.151	
	Back	1.611	0.762	0.045	2.418	
	Left Side			0.002	0.002	
	Right Side	0.593	0.670	0.001	1.264	
	Top Side		0.904	0.001	0.905	
	Bottom Side	2.858		0.001	2.859	
FR1 n66 ANT1	Front	1.840	0.476	0.001	2.317	
	Back	2.727	0.762	0.045	3.534	
	Left Side			0.002	0.002	
	Right Side	0.540	0.670	0.001	1.211	
	Top Side		0.904	0.001	0.905	
	Bottom Side	1.717		0.001	1.718	
FR1 n66 ANT4	Front	0.571	0.476	0.001	1.048	
	Back	1.064	0.762	0.045	1.871	
	Left Side	0.411		0.002	0.413	
	Right Side		0.670	0.001	0.671	
	Top Side	2.240	0.904	0.001	3.145	
	Bottom Side			0.001	0.001	
FR1 n78 ANT2	Front	0.912	0.476	0.001	1.389	
	Back	1.000	0.762	0.045	1.807	
	Left Side	2.204		0.002	2.206	
	Right Side		0.670	0.001	0.671	
	Top Side	0.202	0.904	0.001	1.107	
	Bottom Side			0.001	0.001	
FR1 n78 ANT11	Front	0.928	0.476	0.001	1.405	
	Back	1.997	0.762	0.045	2.804	
	Left Side			0.002	0.002	
	Right Side	2.974	0.670	0.001	3.645	
	Top Side		0.904	0.001	0.905	
	Bottom Side	0.497		0.001	0.498	

Note: For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is < 1.2W/kg. The SAR value of NFC comes from another separate report (Report No. : FA411904).

18.4. SPLSR Evaluation

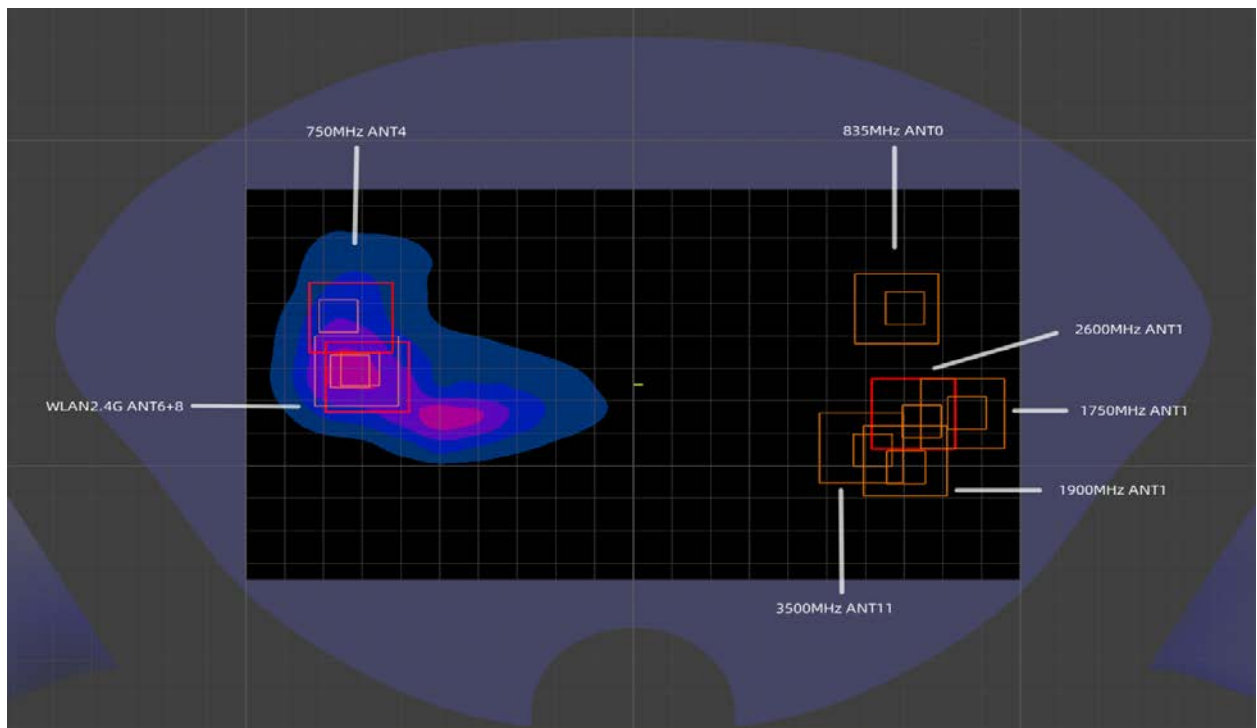
According to KDB 447498 D01, When SUM of simultaneous transmission SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio (SPLSR). The simultaneously transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SPLSR that qualifies for the additional test exemption. When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following formula:

$$\text{Distance}_{\text{Tx1-Tx2}} = R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

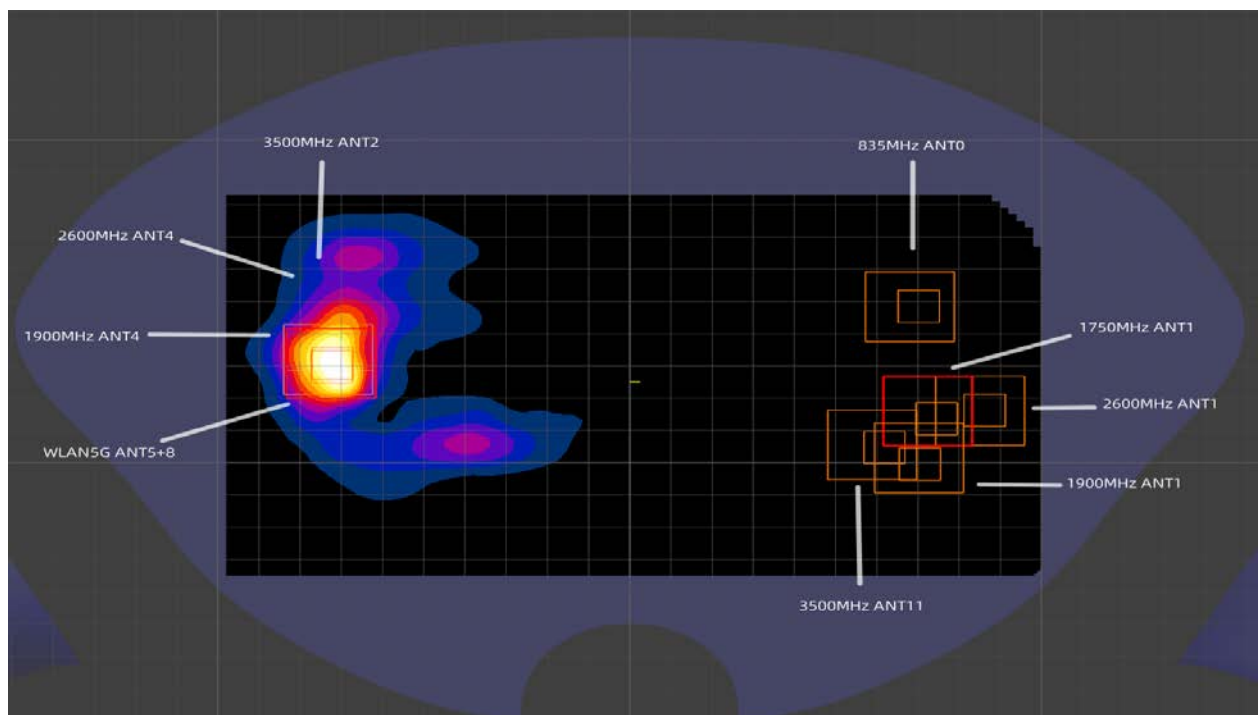
$$\text{SPLS Ratio} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / R_i$$

where SAR₁ and SAR₂ are the highest reported SAR or estimated SAR values for the two sources in the pair, and R_i is their distance in millimeters.

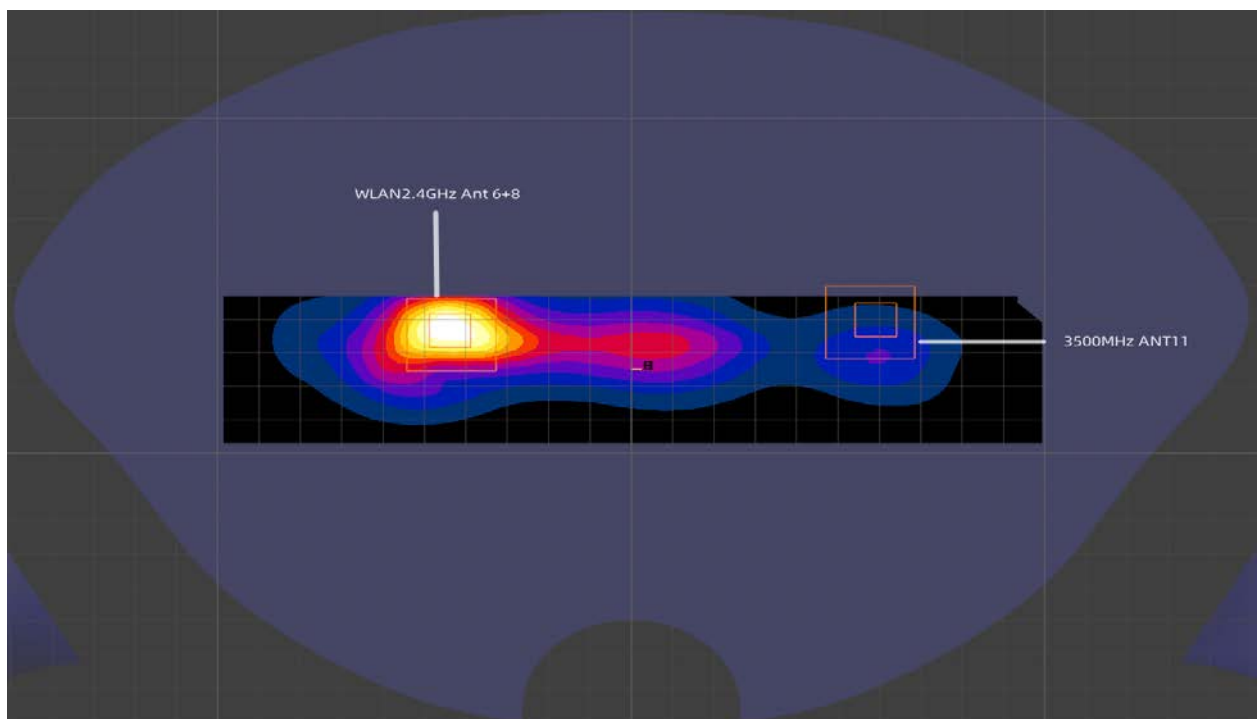
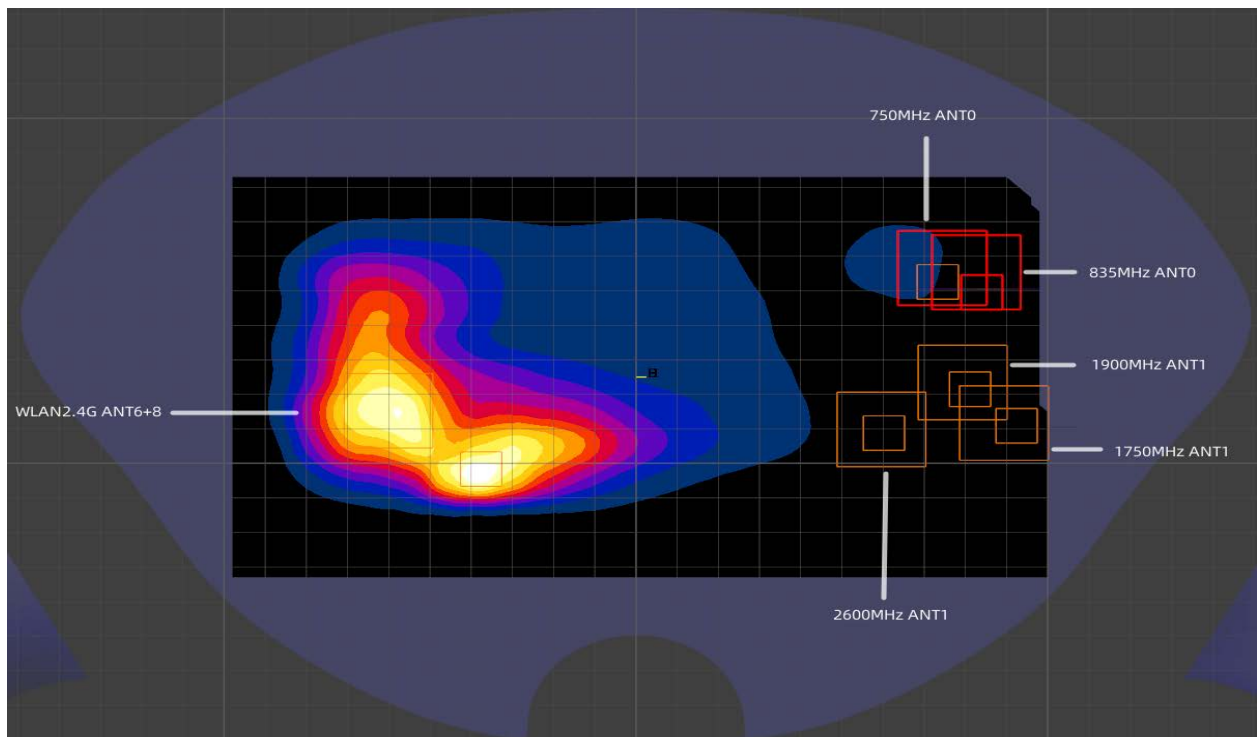
When SPLSR ≤ 0.04 for 1g SAR and SPLSR ≤ 0.10 for 10g SAR, simultaneous transmission SAR evaluation is not required.



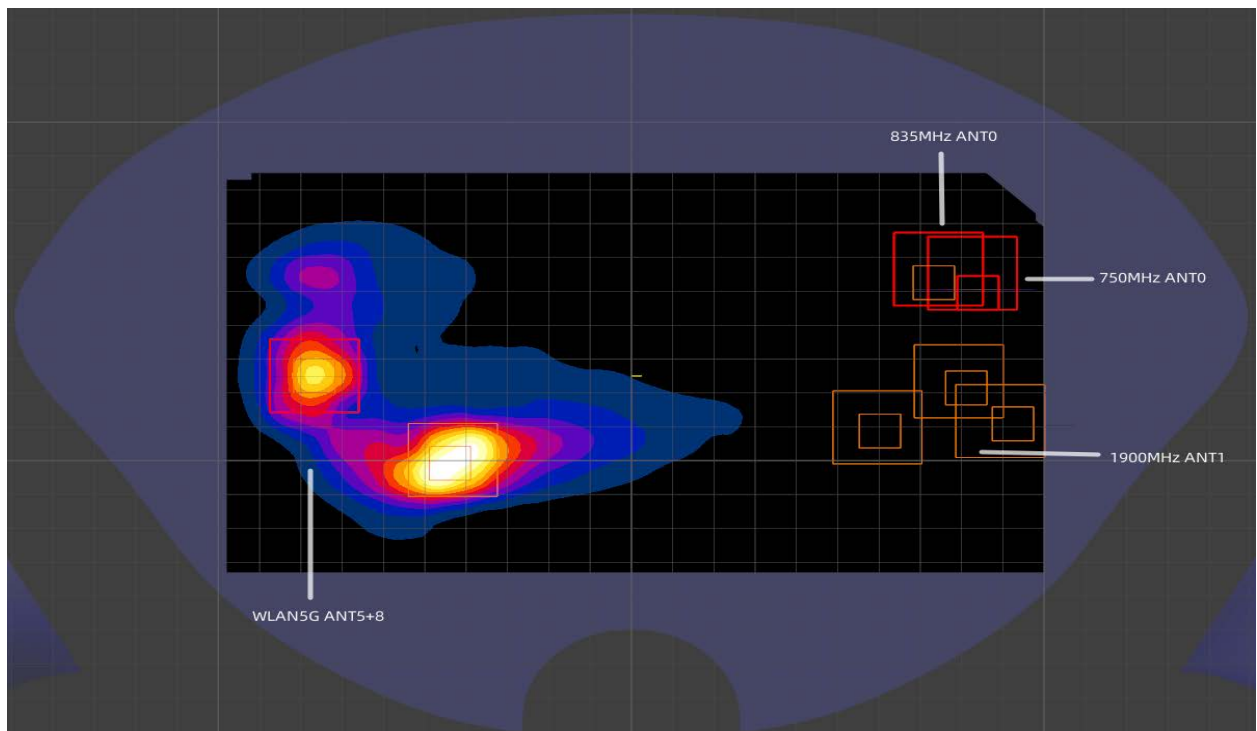
Body-Worn WWAN+WLAN2.4GHz



Body-Worn WWAN+WLAN5GHz



Hotspot WWAN+WLAN2.4GHz



Hotspot WWAN+WLAN5GHz

For Body-Worn:

Case01	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	GSM850 ANT0	Back	0.925	5mm	-53	69.7	-207	137.7	1.86	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case02	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	GSM1900 ANT1	Back	0.86	5mm	-9.6	87.7	-208.3	142.2	1.80	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case03	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA II ANT1	Back	1.118	5mm	-9.6	87.7	-208.3	133.8	1.77	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case04	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA II ANT1	Back	1.118	5mm	-9.6	87.7	-208.3	142.2	2.06	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case05	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA IV ANT1	Back	1.274	5mm	-17	80.8	-207	127.9	1.93	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case06	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA IV ANT1	Back	1.274	5mm	-17	80.8	-207	136.6	2.21	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case07	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA V ANT0	Back	1.143	5mm	-53	69.7	-207	128.1	1.79	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case08	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA V ANT0	Back	1.143	5mm	-53	69.7	-207	137.7	2.08	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case09	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 12 ANT0	Back	0.769	5mm	-52.2	87.2	-207	153.2	1.71	0.01	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				

Case10	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 12 ANT4	Back	0.778	5mm	-56.7	-80.8	-207	71.0	1.72	0.03	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case11	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 26 ANT0	Back	1.102	5mm	-53	69.7	-207	128.1	1.75	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case12	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 26 ANT0	Back	1.102	5mm	-53	69.7	-207	137.7	2.04	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case13	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 66 ANT1	Back	1.269	5mm	-9.6	87.7	-208.3	133.8	1.92	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case14	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 66 ANT1	Back	1.269	5mm	-9.6	87.7	-208.3	142.2	2.21	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case15	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 66 ANT4	Back	0.754	5mm	-45.1	-74.1	-207	57.8	1.69	0.04	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case16	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 25 ANT1	Back	1.111	5mm	-9.6	87.7	-208.3	133.8	1.76	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case17	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 25 ANT1	Back	1.111	5mm	-9.6	87.7	-208.3	142.2	2.05	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case18	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 25 ANT4	Back	0.736	5mm	-50.1	-75.3	-207	62.9	1.68	0.03	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				

Case19	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41 ANT4	Back	0.735	5mm	-51.5	-74	-207	63.8	1.67	0.03	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case20	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 7 ANT1	Back	0.988	5mm	-8	77	-207	123.0	1.64	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case21	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 7 ANT1	Back	0.988	5mm	-8	77	-207	131.4	1.93	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case22	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 7 ANT4	Back	0.785	5mm	-51.5	-74	-207	63.8	1.72	0.04	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case23	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 42 ANT2	Back	0.677	5mm	-71.5	-66.5	-208.5	81.4	1.62	0.03	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case24	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n2 ANT1	Back	1.228	5mm	-9.6	87.7	-208.3	133.8	1.88	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case25	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n2 ANT1	Back	1.228	5mm	-9.6	87.7	-208.3	142.2	2.17	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case26	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n2 ANT4	Back	0.81	5mm	-50.1	-75.3	-207	62.9	1.75	0.04	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case27	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n7 ANT1	Back	0.966	5mm	-8	77	-270	138.2	1.62	0.01	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				

Case28	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n7 ANT1	Back	0.966	5mm	-8	77	-270	145.7	1.91	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case29	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n7 ANT4	Back	0.842	5mm	-51.5	-74	-207	63.8	1.78	0.04	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case30	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n26 ANT0	Back	0.835	5mm	-53	69.7	-207	137.7	1.77	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case31	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n5 ANT0	Back	1.119	5mm	-53	69.7	-207	128.1	1.77	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case32	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n5 ANT0	Back	1.119	5mm	-53	69.7	-207	137.7	2.06	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case33	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n66 ANT1	Back	1.158	5mm	-17	80.8	-207	127.9	1.81	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case34	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n66 ANT1	Back	1.158	5mm	-17	80.8	-207	136.6	2.10	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case35	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n66 ANT4	Back	0.801	5mm	-45.1	-74.1	-207	57.8	1.74	0.04	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case36	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n78 ANT2	Back	0.927	5mm	-71.5	-66.5	-208.5	81.4	1.87	0.03	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				

Case37	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n78 ANT11	Back	1.067	5mm	0.7	68.4	-270	130.2	1.72	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.651	5mm	3	-45.5	-207				
Case38	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n78 ANT11	Back	1.067	5mm	0.7	68.4	-270	137.3	2.01	0.02	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				
Case39	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band13 ANT0	Back	0.657	5mm	-52.2	87.2	-207	153.2	1.60	0.01	Not required
	WLAN5GHz Ant5+8		0.939	5mm	8.8	-53.3	-207				

For Hotspot:

Case01	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	GSM850 ANT0	Back	0.943	5mm	-53	69.7	-207	124.5	1.71	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				
Case02	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	GSM1900 ANT1	Back	1.126	5mm	-9.6	87.7	-208.3	129.1	1.89	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				
Case03	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	GSM1900 ANT1	Back	1.126	5mm	-9.6	87.7	-208.3	165.5	1.70	0.01	Not required
	WLAN5GHz Ant5+8		0.578	5mm	-24.8	-77.1	-207				
Case04	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA II ANT1	Back	0.935	5mm	-20.4	83.6	-207	126.7	1.70	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				
Case05	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA V ANT0	Back	1.143	5mm	-47	73.5	-207	125.3	1.91	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				
Case06	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA V ANT0	Back	1.143	5mm	-47	73.5	-207	152.2	1.72	0.01	Not required
	WLAN5GHz Ant5+8		0.578	5mm	-24.8	-77.1	-207				
Case07	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 12 ANT0	Back	1.047	5mm	-52.2	87.2	-207	139.9	1.81	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				
Case08	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 12 ANT0	Back	1.047	5mm	-52.2	87.2	-207	166.6	1.63	0.01	Not required
	WLAN5GHz Ant5+8		0.578	5mm	-24.8	-77.1	-207				
Case09	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 26 ANT0	Back	1.152	5mm	-53	69.7	-207	124.5	1.91	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				

Case10	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 26 ANT0	Back	1.152	5mm	-53	69.7	-207	149.5	1.73	0.02	Not required
	WLAN5GHz Ant5+8		0.578	5mm	-24.8	-77.1	-207				
Case11	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 66 ANT1	Back	0.855	5mm	-17	80.8	-207	123.3	1.62	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				
Case12	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 25 ANT1	Back	0.991	5mm	-9.6	87.7	-208.3	129.1	1.75	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				
Case13	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n2 ANT1	Back	0.976	5mm	-9.6	87.7	-208.3	129.1	1.74	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				
Case14	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n5 ANT0	Back	1.22	5mm	-53	69.7	-207	124.5	1.98	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				
Case15	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n5 ANT0	Back	1.22	5mm	-53	69.7	-207	149.5	1.80	0.02	Not required
	WLAN5GHz Ant5+8		0.578	5mm	-24.8	-77.1	-207				
Case16	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n66 ANT1	Back	0.882	5mm	-17	80.8	-207	123.3	1.64	0.02	Not required
	WLAN2.4GHz Ant 6+8		0.762	5mm	5	-40.4	-202.6				
Case17	Band	Position	SAR(W/kg)	GAP	SAR peak location(mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 n78 ANT11	Right Side	1.157	5mm	-4	58.3	-207	97.7	1.91	0.03	Not required
	WLAN2.4GHz Ant 6+8		0.749	5mm	-33	-34.9	-202.9				

19. Supplemental Tuner SAR

- The detailed Supplemental Tuner Head & Body SAR Results can refer to Appendix F.

General Note:

- 1) This device impedance tuner (384 status) antenna tuning techniques in the LTE Band 5/26, 5G NR n5/n26 for ANT0.
- 2) LTE Band 5 SAR test was covered by LTE Band 26; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
- 3) SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching.
- 4) The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
- 5) To evaluate all of the tuner states, the 384 tuner states for ANT0 are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
- 6) According to TCB 201904 workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination. If any single point SAR measurement result is $> 1.2 \text{ W/kg}$ for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination. So we verified the single point SAR that bands with SAR value high than 1.2 W/kg .
- 7) The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).
- 8) According to KDB 648474 D04 v01r03, in order to reduce the number of SAR tests required to demonstrate compliance for the numerous tuning states, certain SAR screening procedures were considered to identify the higher SAR between body-worn and hotspot scenarios that need normally required SAR measurements and allow SAR test reduction for the lower SAR conditions. This design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.

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20. Uncertainty Assessment

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1g SAR within a frequency band is < 1.5 W/kg and the measured 10g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k=2$. If these conditions are satisfied, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1g SAR is less than 1.5 W/kg and highest measured 10g SAR is less than 3.75 W/kg. Therefore, the measurement uncertainty table is not required in this report.

Appendix A: Plots of System Check Results

Appendix B-1: The detailed “Table of SAR Test Record”

Appendix B-2: Plots of High SAR Test Results

Appendix C: DASY Calibration Certificate

Appendix D: Test Setup Photographs

Appendix E: Conducted Output Power Table

Appendix F: Supplemental Tuner SAR Results

Appendix G: Power reduction mechanism verification

-----THE END-----