



Appendix D. Simultaneous Transmission analysis

1. Analysis for mmWave antenna module 0

<For Head Exposure condition>

<Phone WWAN Tx On>

Head		Reported SAR				Report SAR (Mod)				Power Density	Reported SAR/1.6 + PD/10 Summation										Single Point SAR Value from Power Density Location								Single Point SAR from Power Density Location Summation (Peak SAR/1.6 + PD/10)								
WWAN Band	Exposure Position	1	2	3	4	5	7	8	10	11	1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation	1	2	3	4	5	7	8	10	1+2+5+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD													WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm^2(W/m^2)													1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
CDMA	CDMA2000 BC0	Right Cheek	0.354	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.490	0.755	0.682	0.663	0.668	1.157	1.085	1.066	1.071	0.735	0.663	0.644	0.649	0.103	0.004	0.000		0.034	0.039	0.027	0.035		0.135	0.138	0.130	0.135	
		Right Tilted	0.189	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.490	0.477	0.426	0.422	0.413	0.707	0.657	0.652	0.643	0.559	0.508	0.504	0.495														
		Left Cheek	0.469	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.490	0.477	0.488	0.482	0.457	0.569	0.580	0.574	0.549	0.681	0.692	0.686	0.661														
		Left Tilted	0.204	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.490	0.287	0.306	0.295	0.287	0.378	0.397	0.387	0.378	0.486	0.505	0.494	0.486														
	CDMA2000 BC1	Right Cheek	0.289	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.490	0.714	0.642	0.623	0.628	1.117	1.044	1.025	1.030	0.695	0.622	0.603	0.608	0.068	0.004	0.000		0.034	0.039	0.027	0.035		0.113	0.116	0.108	0.113	
		Right Tilted	0.109	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.490	0.427	0.376	0.372	0.363	0.657	0.607	0.602	0.593	0.509	0.458	0.454	0.445														
		Left Cheek	0.217	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.490	0.319	0.330	0.324	0.299	0.412	0.423	0.417	0.392	0.523	0.535	0.528	0.503														
		Left Tilted	0.170	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.490	0.266	0.285	0.274	0.266	0.357	0.376	0.365	0.357	0.465	0.483	0.473	0.465														
LTE	LTE Band 2	Right Cheek	0.316	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.490	0.731	0.658	0.640	0.645	1.133	1.061	1.042	1.047	0.712	0.639	0.620	0.625	0.066	0.004	0.000		0.034	0.039	0.027	0.035		0.112	0.115	0.107	0.112	
		Right Tilted	0.114	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.490	0.430	0.379	0.375	0.366	0.660	0.610	0.605	0.597	0.512	0.462	0.457	0.448														
		Left Cheek	0.256	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.490	0.343	0.355	0.348	0.323	0.436	0.447	0.441	0.416	0.548	0.559	0.553	0.528														
		Left Tilted	0.202	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.490	0.286	0.305	0.294	0.286	0.377	0.396	0.385	0.377	0.485	0.503	0.493	0.485														
	LTE Band 5	Right Cheek	0.263	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.490	0.698	0.625	0.607	0.612	1.100	1.028	1.009	1.014	0.678	0.606	0.587	0.592	0.074	0.004	0.000		0.034	0.039	0.027	0.035		0.117	0.120	0.112	0.117	
		Right Tilted	0.135	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.490	0.443	0.392	0.388	0.379	0.673	0.623	0.618	0.610	0.525	0.475	0.470	0.462														
		Left Cheek	0.326	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.490	0.387	0.398	0.392	0.367	0.480	0.491	0.485	0.460	0.592	0.603	0.597	0.572														
		Left Tilted	0.159	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.490	0.259	0.278	0.267	0.259	0.350	0.369	0.358	0.350	0.458	0.477	0.466	0.458														
	LTE Band 7	Right Cheek	0.788	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.490	1.026	0.953	0.935	0.940	1.428	1.356	1.337	1.342	0.934	0.915	0.920	0.920	0.022	0.004	0.000	0.002	0.034	0.039	0.027	0.035	0.087	0.084	0.087	0.080	0.085	0.085
		Right Tilted	0.299	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.490	0.545	0.495	0.490	0.482	0.776	0.725	0.721	0.712	0.628	0.577	0.573	0.564														
		Left Cheek	0.427	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.490	0.450	0.462	0.455	0.430	0.543	0.554	0.548	0.523	0.655	0.666	0.660	0.635														
		Left Tilted	0.306	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.490	0.351	0.370	0.359	0.351	0.442	0.461	0.450	0.442	0.550	0.568	0.558	0.550														
	LTE Band 13	Right Cheek	0.227	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.490	0.675	0.603	0.584	0.589	1.078	1.005	0.987	0.992	0.656	0.583	0.565	0.570	0.057	0.004	0.000		0.034	0.039	0.027	0.035		0.106	0.109			
		Right Tilted	0.132	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.490	0.441	0.390	0.386	0.377	0.672	0.621	0.617	0.608	0.523	0.473	0.468	0.460														
		Left Cheek	0.262	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.490	0.347	0.358	0.352	0.327	0.440	0.451	0.445	0.420	0.552	0.563	0.557	0.532														
		Left Tilted	0.136	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.490	0.245	0.263	0.253	0.245	0.336	0.355	0.344	0.336	0.443	0.462	0.452	0.443														
	LTE Band 66	Right Cheek	0.570	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.490	0.890	0.817	0.798	0.803	1.292	1.220	1.201	1.206	0.870	0.798	0.779	0.784	0.092	0.004	0.000		0.034	0.039	0.027	0.035		0.128	0.131	0.123	0.128	
		Right Tilted	0.175	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.490	0.468	0.417	0.413	0.404	0.698	0.648	0.643	0.635	0.550	0.500	0.495	0.487														
		Left Cheek	0.348	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.490	0.401	0.412	0.406	0.381	0.493	0.505	0.498	0.473	0.605	0.617	0.610	0.585														
		Left Tilted	0.217	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.490	0.295	0.314	0.303	0.295	0.387	0.405	0.395	0.387	0.494	0.513	0.502	0.494														

<Phone WWAN Tx Off>

Head	Reported SAR			Report SAR (Mod)				Power Density	Reported SAR/1.6 + PD/10 Summation											
Exposure Position	2	3	4	5	7	8	10	11	2+5+11 Summation	2+7+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+7+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+7+11 Summation	4+8+11 Summation	4+10+11 Summation
	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD												
	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm*2(W/m*2)												
Right Cheek	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.490	0.533	0.461	0.442	0.447	0.936	0.863	0.845	0.850	0.514	0.442	0.423	0.428
Right Tilted	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.490	0.358	0.308	0.303	0.295	0.589	0.538	0.534	0.525	0.441	0.390	0.386	0.377
Left Cheek	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.490	0.183	0.195	0.188	0.163	0.276	0.287	0.281	0.256	0.388	0.399	0.393	0.368
Left Tilted	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.490	0.160	0.178	0.168	0.160	0.251	0.270	0.259	0.251	0.358	0.377	0.367	0.358

[illegible][illegible]



<For Body-worn Exposure condition>

<Phone WWAN Tx On>

Body-Worn			Reported SAR				Report SAR (Mod)				Power Density	Reported SAR/1.6 + PD/10 Summation										Single Point SAR Value from Power Density Location								Single Point SAR from Power Density Location Summation (Peak SAR/1.6 + PD/10)															
WWAN Band	Exposure Position		1	2	3	4	5	7	8	10	11	1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation	1	2	3	4	5	7	8	10	1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation		
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD	WWAN													2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)															
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm²2(W/m²)	1g SAR (W/kg)													1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)														
CDMA	CDMA2000 BC0	Front	0.690	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.490	0.783	0.716	0.737	0.849	0.978	0.910	0.932	0.937	0.745	0.677	0.698	0.703																						
		Back	0.282	0.047	0.136	0.050	1.381	0.908	1.383	1.266	5.640	1.633	1.337	1.634	1.542	1.688	1.393	1.690	1.617	1.635	1.339	1.636	1.563	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564		
	CDMA2000 BC1	Front	1.072	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.490	1.022	0.955	0.976	1.088	1.217	1.149	1.170	1.175	0.983	0.916	0.937	0.942	0.727	0.029	0.000	0.000	0.000	0.000	0.020	0.000	0.522			0.522	0.503	0.503	0.516	0.503						
		Back	0.249	0.047	0.136	0.050	1.381	0.908	1.383	1.266	5.640	1.612	1.317	1.613	1.521	1.668	1.372	1.669	1.596	1.614	1.318	1.615	1.542	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564		
LTE	LTE Band 2	Front	0.910	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.490	0.921	0.853	0.875	0.987	1.115	1.048	1.069	1.074	0.882	0.815	0.836	0.841	0.035	0.029	0.000	0.000	0.000	0.000	0.020	0.000				0.071	0.071	0.083	0.071							
		Back	0.239	0.047	0.136	0.050	1.381	0.908	1.383	1.266	5.640	1.606	1.310	1.607	1.515	1.662	1.366	1.663	1.590	1.608	1.312	1.609	1.536	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564		
	LTE Band 66	Front	1.144	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.490	1.067	1.000	1.021	1.133	1.262	1.194	1.215	1.220	1.028	0.961	0.982	0.987	0.054	0.029	0.000	0.000	0.000	0.000	0.020	0.000	0.101	0.101	0.113	0.101	0.083	0.083	0.095	0.083	0.083	0.083	0.083	0.083	0.083	0.083
		Back	0.315	0.047	0.136	0.050	1.381	0.908	1.383	1.266	5.640	1.653	1.358	1.655	1.562	1.709	1.413	1.710	1.637	1.655	1.360	1.657	1.583	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	

<Phone WWAN Tx Off>

Body-Worn	Reported SAR			Report SAR (Mod)				Power Density	Reported SAR/1.6 + PD/10 Summation												Single Point SAR Value from Power Density Location								Single Point SAR from Power Density Location Summation (Peak SAR/1.6 + PD/10)											
Exposure Position	2	3	4	5	7	8	10	11	2+5+11 Summation	2+7+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+7+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+7+11 Summation	4+8+11 Summation	4+10+11 Summation	2	3	4	5	7	8	10	2+5+11 Summation	2+7+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+7+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+7+11 Summation	4+8+11 Summation	4+10+11 Summation	
	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD													2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)													
	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm*2(W/m^2)													1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)													
Front	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.490	0.352	0.285	0.306	0.418	0.547	0.479	0.500	0.505	0.313	0.246	0.267	0.272																				
Back	0.047	0.136	0.050	1.381	0.908	1.383	1.266	5.640	1.457	1.161	1.458	1.365	1.512	1.217	1.513	1.440	1.458	1.163	1.460	1.387	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	



2. Analysis for mmWave Antenna module 1

<For Head Exposure condition>

<Phone WWAN Tx On>

Head		Reported SAR									Power Density	Reported SAR/L6 + PD/10 Summation												Single Point SAR Value from Power Density Location								Single Point SAR from Power Density Location Summation (Peak SAR/L6 + PD/10)						
		1	2	3	4	5	7	8	10	11		1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation	1	2	3	4	5	7	8	10	1+2+5+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD														WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)							1g SAR (W/kg)
WWAN Band	Exposure Position	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm*2(W/m^2)																												
CDMA	CDMA2000 BC0	Right Cheek	0.354	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.545	0.760	0.688	0.669	0.674	1.163	1.090	1.071	1.076	0.741	0.668	0.650	0.655	0.177		0.000		0.000	0.020	0.017	0.011			0.165	0.178	0.176	0.172	
		Right Tilted	0.189	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.545	0.482	0.431	0.427	0.418	0.713	0.662	0.658	0.649	0.565	0.514	0.510	0.501															
		Left Cheek	0.469	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.545	0.482	0.493	0.487	0.462	0.575	0.586	0.580	0.555	0.686	0.698	0.691	0.666															
		Left Tilted	0.204	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.545	0.293	0.311	0.301	0.293	0.384	0.403	0.392	0.384	0.491	0.510	0.500	0.491															
	CDMA2000 BC1	Right Cheek	0.289	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.545	0.720	0.647	0.628	0.633	1.122	1.050	1.031	1.036	0.700	0.628	0.609	0.614	0.231		0.000		0.000	0.020	0.017	0.011		0.199	0.211	0.210	0.206		
		Right Tilted	0.109	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.545	0.432	0.381	0.377	0.368	0.663	0.612	0.608	0.599	0.515	0.464	0.460	0.451															
		Left Cheek	0.217	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.545	0.325	0.336	0.330	0.305	0.417	0.428	0.422	0.397	0.529	0.540	0.534	0.509															
		Left Tilted	0.170	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.545	0.271	0.290	0.280	0.271	0.363	0.381	0.371	0.363	0.470	0.489	0.478	0.470															
	LTE	LTE Band 2	Right Cheek	0.316	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.545	0.736	0.664	0.645	0.650	1.139	1.066	1.048	1.053	0.717	0.645	0.626	0.631	0.255		0.000		0.000	0.020	0.017	0.011		0.214	0.226	0.225	0.221	
			Right Tilted	0.114	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.545	0.435	0.385	0.380	0.371	0.666	0.615	0.611	0.602	0.518	0.467	0.463	0.454														
Left Cheek			0.256	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.545	0.349	0.360	0.354	0.329	0.441	0.453	0.446	0.421	0.553	0.565	0.558	0.533															
LTE Band 5		Left Tilted	0.202	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.545	0.291	0.310	0.300	0.291	0.383	0.401	0.391	0.383	0.490	0.509	0.498	0.490															
		Right Cheek	0.263	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.545	0.703	0.631	0.612	0.617	1.106	1.033	1.015	1.020	0.684	0.611	0.593	0.598	0.136		0.000		0.000	0.020	0.017	0.011		0.140	0.152	0.150	0.146		
		Right Tilted	0.135	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.545	0.448	0.398	0.393	0.385	0.679	0.628	0.624	0.615	0.531	0.480	0.476	0.467															
LTE	LTE Band 7	Left Cheek	0.326	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.545	0.393	0.404	0.398	0.373	0.485	0.496	0.490	0.465	0.597	0.608	0.602	0.577															
		Left Tilted	0.159	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.545	0.265	0.283	0.273	0.265	0.356	0.375	0.364	0.356	0.463	0.482	0.471	0.463															
		Right Cheek	0.788	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.545	1.031	0.959	0.940	0.945	1.434	1.361	1.343	1.348	1.012	0.940	0.921	0.926	0.318	0.005	0.000	0.005	0.000	0.020	0.017	0.011	0.256	0.253	0.266	0.264	0.260	0.256	
		Right Tilted	0.299	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.545	0.551	0.500	0.496	0.487	0.781	0.731	0.726	0.718	0.633	0.583	0.578	0.570															
	LTE Band 13	Left Cheek	0.427	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.545	0.456	0.467	0.461	0.436	0.548	0.560	0.553	0.528	0.660	0.671	0.665	0.640															
		Left Tilted	0.306	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.545	0.356	0.375	0.365	0.356	0.448	0.466	0.456	0.448	0.555	0.574	0.563	0.555															
		Right Cheek	0.227	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.545	0.681	0.608	0.590	0.595	1.083	1.011	0.992	0.997	0.661	0.589	0.570	0.575	0.125		0.000		0.000	0.020	0.017	0.011		0.133	0.145				
		Right Tilted	0.132	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.545	0.446	0.396	0.391	0.383	0.677	0.626	0.622	0.613	0.529	0.478	0.474	0.465															
	LTE Band 66	Left Cheek	0.262	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.545	0.353	0.364	0.358	0.333	0.445	0.456	0.450	0.425	0.557	0.568	0.562	0.537															
		Left Tilted	0.136	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.545	0.250	0.269	0.258	0.250	0.341	0.360	0.350	0.341	0.449	0.468	0.457	0.449															
Right Cheek		0.570	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.545	0.895	0.823	0.804	0.809	1.298	1.225	1.206	1.211	0.876	0.803	0.785	0.790	0.446		0.000		0.000	0.020	0.017	0.011		0.333	0.346	0.344	0.340			
Right Tilted		0.175	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.545	0.473	0.423	0.418	0.410	0.704	0.653	0.649	0.640	0.556	0.505	0.501	0.492																
LTE Band 66	Left Cheek	0.348	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.545	0.406	0.418	0.411	0.386	0.499	0.510	0.504	0.479	0.611	0.622	0.616	0.591																
	Left Tilted	0.217	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.545	0.301	0.320	0.309	0.301	0.392	0.411	0.400	0.392	0.500	0.518	0.508	0.500																

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Head	Reported SAR				Report SAR (Mod)				Power Density	Reported SAR/L6 + PD/10 Summation											
Exposure Position	2	3	4	5	7	8	10	11	4cm*2(W/m*2)	2+5+11 Summation	2+7+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+7+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+7+11 Summation	4+8+11 Summation	4+10+11 Summation
	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD													
	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)														
Right Cheek	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.545		0.539	0.466	0.448	0.453	0.941	0.869	0.850	0.855	0.520	0.447	0.428	0.433
Right Tilted	0.306		0.438	0.189	0.108	0.101	0.087	0.545		0.364	0.313	0.309	0.300	0.595	0.544	0.540	0.531	0.446	0.396	0.391	0.383
Left Cheek	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.545		0.189	0.200	0.194	0.169	0.281	0.293	0.286	0.261	0.393	0.405	0.398	0.373

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Body-Worn		Reported SAR				Report SAR (Mod)				Power Density	Reported SAR/L6 + PD/10 Summation										Single Point SAR Value from Power Density Location								Single Point SAR from Power Density Location Summation (Peak SAR/L6 + PD/10)																			
WWAN Band	Exposure Position	1	2	3	4	5	7	8	10	11	1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation	1	2	3	4	5	7	8	10	1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation						
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD													WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)																		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm ² (W/m ²)													1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)																		
CDMA	CDMA2000 BC0	Front	0.690	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.545	0.789	0.721	0.743	0.855	0.983	0.916	0.937	0.942	0.750	0.683	0.704	0.709		0.011	0.000	0.011	0.004	0.000	0.025	0.005																	
		Back	0.282	0.047	0.136	0.050	1.381	0.908	1.383	1.266	5.880	1.657	1.361	1.658	1.566	1.712	1.417	1.714	1.641	1.659	1.363	1.660	1.587	0.095	0.000	0.001	0.000	0.000	0.000	0.431	0.000	0.647	0.647	0.917	0.647	0.648	0.648	0.917	0.648	0.647	0.647	0.917	0.647					
	CDMA2000 BC1	Front	1.072	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.545	1.028	0.960	0.981	1.093	1.222	1.155	1.176	1.181	0.989	0.921	0.943	0.948	0.020	0.011	0.000	0.011	0.004	0.000	0.025	0.005	0.076			0.076	0.070	0.067	0.082	0.070									
		Back	0.249	0.047	0.136	0.050	1.381	0.908	1.383	1.266	5.880	1.636	1.341	1.637	1.545	1.692	1.396	1.693	1.620	1.638	1.342	1.639	1.566	0.020	0.000	0.001	0.000	0.000	0.000	0.431	0.000	0.601	0.601	0.870	0.601	0.601	0.601	0.871	0.601	0.601	0.601	0.870	0.601					
LTE	LTE Band 2	Front	0.910	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.545	0.926	0.859	0.880	0.992	1.121	1.053	1.075	1.080	0.888	0.820	0.841	0.846	0.010	0.011	0.000	0.011	0.004	0.000	0.025	0.005					0.063	0.061	0.076	0.063									
		Back	0.239	0.047	0.136	0.050	1.381	0.908	1.383	1.266	5.880	1.630	1.334	1.631	1.539	1.686	1.390	1.687	1.614	1.632	1.336	1.633	1.560	0.020	0.000	0.001	0.000	0.000	0.000	0.431	0.000	0.601	0.601	0.870	0.601	0.601	0.601	0.871	0.601	0.601	0.601	0.870	0.601					
	LTE Band 66	Front	1.144	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.545	1.073	1.005	1.026	1.138	1.267	1.200	1.221	1.226	1.034	0.966	0.988	0.993	0.046	0.011	0.000	0.011	0.004	0.000	0.025	0.005	0.093	0.090	0.105	0.093	0.086	0.083	0.099	0.086	0.093								
		Back	0.315	0.047	0.136	0.050	1.381	0.908	1.383	1.266	5.880	1.677	1.382	1.679	1.586	1.733	1.437	1.734	1.661	1.679	1.384	1.681	1.607	0.045	0.000	0.001	0.000	0.000	0.000	0.431	0.000	0.616	0.616	0.886	0.616	0.617	0.617	0.886	0.617	0.616	0.616	0.886	0.616					

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Body-Worn	Reported SAR			Report SAR (Mod)				Power Density	Reported SAR/L6 + PD/10 Summation										Single Point SAR Value from Power Density Location						Single Point SAR from Power Density Location Summation (Peak SAR/L6 + PD/10)														
Exposure Position	2	3	4	5	7	8	10	11	2+5+11 Summation	2+7+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+7+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+7+11 Summation	4+8+11 Summation	4+10+11 Summation	2	3	4	5	7	8	10	2+5+11 Summation	2+7+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+7+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+7+11 Summation	4+8+11 Summation	4+10+11 Summation
	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD													2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)												
	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm*2(W/m^2)													1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)												
Front	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.545	0.358	0.290	0.311	0.423	0.552	0.485	0.506	0.511	0.319	0.251	0.273	0.278																			
Back	0.047	0.136	0.050	1.381	0.908	1.383	1.266	5.880	1.481	1.185	1.482	1.389	1.536	1.241	1.537	1.464	1.482	1.187	1.484	1.411	0.000	0.001	0.000	0.000	0.000	0.431	0.000	0.588	0.588	0.857	0.588	0.589	0.589	0.858	0.589	0.588	0.588	0.857	0.588



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Body-Worn		Reported SAR				Report SAR (Mod)				Power Density	Reported SAR/L6 + PD/10 Summation										Single Point SAR Value from Power Density Location								Single Point SAR from Power Density Location Summation (Peak SAR/L6 + PD/10)														
WWAN Band	Exposure Position	1	2	3	4	5	7	8	10	11	1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation	1	2	3	4	5	7	8	10	1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation	
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD													WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)													
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm²2(W/m²2)													1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)													
CDMA	CDMA2000 BC0	Front	0.690	0.282	0.593	0.220	0.203	0.095	0.129	0.137	1.630	0.897	0.830	0.851	0.963	1.092	1.024	1.046	1.051	0.859	0.791	0.812	0.817	0.006	0.000	0.000	0.000	0.003	0.013	0.009	0.001					0.169	0.175	0.172	0.167				
		Back	0.282	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.550	1.324	1.028	1.325	1.233	1.379	1.084	1.381	1.308	1.326	1.030	1.327	1.254	0.001	0.025	0.006	0.006	0.014	0.088	0.081	0.002	0.280	0.327	0.322	0.273	0.268	0.315	0.310	0.261	0.269	0.315	0.311	0.261
	CDMA2000 BC1	Front	1.072	0.282	0.593	0.220	0.203	0.095	0.129	0.137	1.630	1.136	1.069	1.090	1.202	1.331	1.263	1.284	1.289	1.097	1.030	1.051	1.056	0.000	0.000	0.000	0.000	0.003	0.013	0.009	0.001	0.165	0.171	0.169	0.164	0.165	0.171	0.169	0.164	0.165	0.171	0.169	0.164
		Back	0.249	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.550	1.303	1.008	1.304	1.212	1.359	1.063	1.360	1.287	1.305	1.009	1.306	1.233	0.000	0.025	0.006	0.006	0.014	0.088	0.081	0.002	0.279	0.326	0.321	0.272	0.267	0.314	0.309	0.260	0.268	0.314	0.310	0.261
LTE	LTE Band 2	Front	0.910	0.282	0.593	0.220	0.203	0.095	0.129	0.137	1.630	1.035	0.967	0.989	1.101	1.229	1.162	1.183	1.188	0.996	0.929	0.950	0.955	0.000	0.000	0.000	0.000	0.003	0.013	0.009	0.001	0.165			0.164	0.165	0.171	0.169	0.164				
		Back	0.239	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.550	1.297	1.001	1.298	1.206	1.353	1.057	1.354	1.281	1.299	1.003	1.300	1.227	0.000	0.025	0.006	0.006	0.014	0.088	0.081	0.002	0.279	0.326	0.321	0.272	0.267	0.314	0.309	0.260	0.268	0.314	0.310	0.261
	LTE Band 66	Front	1.144	0.282	0.593	0.220	0.203	0.095	0.129	0.137	1.630	1.181	1.114	1.135	1.247	1.376	1.308	1.329	1.334	1.142	1.075	1.096	1.101	0.002	0.000	0.000	0.000	0.003	0.013	0.009	0.001	0.166	0.172	0.170	0.165	0.166	0.172	0.170	0.165	0.166	0.172	0.170	0.165
		Back	0.315	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.550	1.344	1.049	1.346	1.253	1.400	1.104	1.401	1.328	1.346	1.051	1.348	1.274	0.000	0.025	0.006	0.006	0.014	0.088	0.081	0.002	0.279	0.326	0.321	0.272	0.267	0.314	0.309	0.260	0.268	0.314	0.310	0.261

<Phone WWAN Tx Off>

Body-Worn	Reported SAR			Report SAR (Mod)				Power Density	Reported SAR/L6 + PD/10 Summation												Single Point SAR Value from Power Density Location						Single Point SAR from Power Density Location Summation (Peak SAR/L6 + PD/10)										
Exposure Position	2	3	4	5	7	8	10	11	2+5+11 Summation	2+7+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+7+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+7+11 Summation	4+8+11 Summation	4+10+11 Summation	2	3	4	5	7	8	10	2+5+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+8+11 Summation	4+10+11 Summation	
	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD													2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)										
	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm²2(W/m²2)													1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)										
Front	0.282	0.593	0.220	0.203	0.095	0.129	0.137	1.630	0.466	0.399	0.420	0.532	0.661	0.593	0.614	0.619	0.427	0.360	0.381	0.386																	
Back	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.550	1.148	0.852	1.149	1.056	1.203	0.908	1.204	1.131	1.149	0.854	1.151	1.078	0.025	0.006	0.006	0.014		0.081	0.002	0.279	0.321	0.272	0.267	0.309	0.260	0.268	0.310	0.261	



4. Analysis for mmWave antenna module 3

<For Head Exposure condition>

<Phone WWAN Tx On>

Head		Reported SAR									Power Density	Reported SAR/L6 + PD/10 Summation												Single Point SAR Value from Power Density Location								Single Point SAR from Power Density Location Summation (Peak SAR/L6 + PD/10)						
		1	2	3	4	5	7	8	10	11		1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation	1	2	3	4	5	7	8	10	1+2+5+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD														WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)							1g SAR (W/kg)
WWAN Band	Exposure Position	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm*2(W/m^2)																												
CDMA	CDMA2000 BC0	Right Cheek	0.354	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.675	0.773	0.701	0.682	0.687	1.176	1.103	1.084	1.089	0.754	0.681	0.663	0.668	0.042	0.239	0.410	0.221	0.100	0.050	0.062	0.070			0.413	0.381	0.389	0.394	
		Right Tilted	0.189	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.675	0.495	0.444	0.440	0.431	0.726	0.675	0.671	0.662	0.578	0.527	0.523	0.514															
		Left Cheek	0.469	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.675	0.495	0.506	0.500	0.475	0.588	0.599	0.593	0.568	0.699	0.711	0.704	0.679															
		Left Tilted	0.204	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.675	0.306	0.324	0.314	0.306	0.397	0.416	0.405	0.397	0.504	0.523	0.513	0.504															
	CDMA2000 BC1	Right Cheek	0.289	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.675	0.733	0.660	0.641	0.646	1.135	1.063	1.044	1.049	0.713	0.641	0.622	0.627	0.040	0.239	0.410	0.221	0.100	0.050	0.062	0.070			0.411	0.380	0.388	0.393	
		Right Tilted	0.109	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.675	0.445	0.394	0.390	0.381	0.676	0.625	0.621	0.612	0.528	0.477	0.473	0.464															
		Left Cheek	0.217	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.675	0.338	0.349	0.343	0.318	0.430	0.441	0.435	0.410	0.542	0.553	0.547	0.522															
		Left Tilted	0.170	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.675	0.284	0.303	0.293	0.284	0.376	0.394	0.384	0.376	0.483	0.502	0.491	0.483															
LTE	LTE Band 2	Right Cheek	0.316	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.675	0.749	0.677	0.658	0.663	1.152	1.079	1.061	1.066	0.730	0.658	0.639	0.644	0.041	0.239	0.410	0.221	0.100	0.050	0.062	0.070			0.412	0.381	0.388	0.393	
		Right Tilted	0.114	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.675	0.448	0.398	0.393	0.384	0.679	0.628	0.624	0.615	0.531	0.480	0.476	0.467															
		Left Cheek	0.256	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.675	0.362	0.373	0.367	0.342	0.454	0.466	0.459	0.434	0.566	0.578	0.571	0.546															
		Left Tilted	0.202	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.675	0.304	0.323	0.313	0.304	0.396	0.414	0.404	0.396	0.503	0.522	0.511	0.503															
	LTE Band 5	Right Cheek	0.263	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.675	0.716	0.644	0.625	0.630	1.119	1.046	1.028	1.033	0.697	0.624	0.606	0.611	0.050	0.239	0.410	0.221	0.100	0.050	0.062	0.070			0.418	0.386	0.394	0.399	
		Right Tilted	0.135	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.675	0.461	0.411	0.406	0.398	0.692	0.641	0.637	0.628	0.544	0.493	0.489	0.480															
		Left Cheek	0.326	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.675	0.406	0.417	0.411	0.386	0.498	0.509	0.503	0.478	0.610	0.621	0.615	0.590															
		Left Tilted	0.159	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.675	0.278	0.296	0.286	0.278	0.369	0.388	0.377	0.369	0.476	0.495	0.484	0.476															
	LTE Band 7	Right Cheek	0.788	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.675	1.044	0.972	0.953	0.958	1.447	1.374	1.356	1.361	1.025	0.953	0.934	0.939	0.086	0.239	0.410	0.221	0.100	0.050	0.062	0.070	0.333	0.440	0.409	0.416	0.421	0.322	
		Right Tilted	0.299	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.675	0.564	0.513	0.509	0.500	0.794	0.744	0.739	0.731	0.646	0.596	0.591	0.583															
		Left Cheek	0.427	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.675	0.469	0.480	0.474	0.449	0.561	0.573	0.566	0.541	0.673	0.684	0.678	0.653															
		Left Tilted	0.306	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.675	0.369	0.388	0.369	0.369	0.461	0.479	0.469	0.461	0.568	0.587	0.576	0.568															
	LTE Band 13	Right Cheek	0.227	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.675	0.694	0.621	0.603	0.608	1.096	1.024	1.005	1.010	0.674	0.602	0.583	0.588	0.019	0.239	0.410	0.221	0.100	0.050	0.062	0.070			0.398	0.367	0.374	0.379	
		Right Tilted	0.132	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.675	0.459	0.409	0.404	0.396	0.690	0.639	0.635	0.626	0.542	0.491	0.487	0.478															
		Left Cheek	0.262	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.675	0.366	0.377	0.371	0.346	0.458	0.469	0.463	0.438	0.570	0.581	0.575	0.550															
		Left Tilted	0.136	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.675	0.263	0.282	0.271	0.263	0.354	0.373	0.363	0.354	0.462	0.481	0.470	0.462															
	LTE Band 66	Right Cheek	0.570	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.675	0.908	0.836	0.817	0.822	1.311	1.238	1.219	1.224	0.889	0.816	0.798	0.803	0.095	0.239	0.410	0.221	0.100	0.050	0.062	0.070			0.446	0.414	0.422	0.427	
		Right Tilted	0.175	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.675	0.486	0.436	0.431	0.423	0.717	0.666	0.662	0.653	0.569	0.518	0.514	0.505															
		Left Cheek	0.348	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.675	0.419	0.431	0.424	0.399	0.512	0.523	0.517	0.492	0.624	0.635	0.629	0.604															
		Left Tilted	0.217	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.675	0.314	0.333	0.322	0.314	0.405	0.424	0.413	0.405	0.513	0.531	0.521	0.513															

<Phone WWAN Tx Off>

Head	Reported SAR			Report SAR (Mod)				Power Density	Reported SAR/L1.6 + PD/10 Summation											
Exposure Position	2	3	4	5	7	8	10	11	2+5+11 Summation	2+7+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+7+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+7+11 Summation	4+8+11 Summation	4+10+11 Summation
	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)													
	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)													
Right Cheek	0.469	1.113	0.438	0.306	0.190	0.160	0.168	0.675	0.552	0.479	0.461	0.466	0.954	0.882	0.863	0.868	0.533	0.460	0.441	0.446
Right Tilted	0.306	0.675	0.438	0.189	0.108	0.101	0.087	0.675	0.377	0.326	0.322	0.313	0.608	0.557	0.553	0.544	0.459	0.409	0.404	0.396
Left Cheek	0.111	0.259	0.438	0.104	0.122	0.112	0.072	0.675	0.202	0.213	0.207	0.182	0.294	0.306	0.299	0.274	0.406	0.418	0.411	0.386
Left Tilted	0.120	0.266	0.438	0.057	0.087	0.070	0.057	0.675	0.178	0.197	0.186	0.178	0.269	0.288	0.278	0.269	0.377	0.396	0.385	0.377



<For Hotspot Exposure condition>

<Phone WWAN Tx On>

Hotspot		Reported SAR				Report SAR (Mod)				Power Density	Reported SAR/L6 + PD/10 Summation										Single Point SAR Value from Power Density Location								Single Point SAR from Power Density Location Summation (Peak SAR/L6 + PD/10)																						
		1	2	3	4	5	7	8	10	11	1+2+5+11 summation	1+2+7+11 summation	1+2+8+11 summation	1+2+10+11 summation	1+3+5+11 summation	1+3+7+11 summation	1+3+8+11 summation	1+3+10+11 summation	1+4+5+11 summation	1+4+7+11 summation	1+4+8+11 summation	1+4+10+11 summation	1	2	3	4	5	7	8	10	1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation									
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD													WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)																					
WWAN Band	Exposure Position	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm²/2(W/m²2)														1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)																				
CDMA	CDMA2000 BC0	Front	0.564	0.282	0.513	0.220	0.203	0.095	0.129	0.137	0.675	0.723	0.656	0.677	0.682	0.868	0.800	0.821	0.826	0.684	0.617	0.638	0.643																												
		Back	0.222	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.800	1.311	1.016	1.313	1.239	1.367	1.071	1.368	1.295	1.313	1.018	1.314	1.241	0.009	0.029	0.098	0.026	0.024	0.017	0.698	0.025	0.319	0.315	0.741	0.320	0.363	0.358	0.783	0.363	0.318	0.313	0.739	0.318								
		Left side	0.314	0.384	0.912	0.353	0.501	0.282	0.595	0.472	0.665	0.816	0.679	0.875	0.798	1.146	1.009	1.205	1.128	0.797	0.660	0.855	0.778	0.078	0.538	0.081	0.000	0.135	0.302	0.100	0.134					0.250	0.355	0.228	0.250												
		Right side	0.158								0.929	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192																												
		Top side		0.088	0.396	0.353	0.026	0.060	0.045	0.150	3.120	0.383	0.405	0.395	0.461	0.576	0.597	0.588	0.653	0.549	0.570	0.561	0.626																												
	Bottom side	0.305																																																	
	CDMA2000 BC1	Front	0.463	0.282	0.513	0.220	0.203	0.095	0.129	0.137	0.675	0.660	0.593	0.614	0.619	0.804	0.737	0.758	0.763	0.621	0.554	0.575	0.580																												
		Back	0.166	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.800	1.276	0.981	1.278	1.204	1.332	1.036	1.333	1.260	1.278	0.983	1.279	1.206	0.000	0.029	0.098	0.026	0.024	0.017	0.698	0.025	0.314		0.734	0.314	0.356	0.352	0.778	0.357	0.311		0.733	0.312								
		Left side	0.017	0.384	0.912	0.353	0.501	0.282	0.595	0.260	0.665	0.630	0.493	0.689	0.480	0.960	0.823	1.019	0.810	0.611	0.474	0.670	0.460	0.000	0.538	0.081	0.000	0.135	0.302	0.100	0.134																				
		Right side	0.082								0.929	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144																												
Top side			0.088	0.396	0.353	0.026	0.060	0.045	0.150	3.120	0.383	0.405	0.395	0.461	0.576	0.597	0.588	0.653	0.549	0.570	0.561	0.626																													
LTE	LTE Band 2	Front	0.528	0.282	0.513	0.220	0.203	0.095	0.129	0.137	0.675	0.701	0.633	0.654	0.659	0.845	0.778	0.799	0.804	0.662	0.594	0.616	0.621																												
		Back	0.162	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.800	1.274	0.978	1.275	1.202	1.329	1.034	1.331	1.258	1.276	0.980	1.277	1.204	0.000	0.029	0.098	0.026	0.024	0.017	0.698	0.025	0.314		0.734	0.314	0.356	0.352	0.778	0.357	0.311		0.733	0.312								
		Left side	0.021	0.384	0.912	0.353	0.501	0.282	0.595	0.260	0.665	0.633	0.496	0.692	0.482	0.963	0.826	1.022	0.812	0.613	0.477	0.672	0.463	0.002	0.538	0.081	0.000	0.135	0.302	0.100	0.134																				
		Right side	0.064								0.929	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133																												
		Top side		0.088	0.396	0.353	0.026	0.060	0.045	0.150	3.120	0.383	0.405	0.395	0.461	0.576	0.597	0.588	0.653	0.549	0.570	0.561	0.626																												
	Bottom side	0.875																																																	
	LTE Band 5	Front	0.905	0.282	0.513	0.220	0.203	0.095	0.129	0.137	0.675	0.936	0.869	0.890	0.895	1.081	1.013	1.034	1.039	0.898	0.830	0.851	0.856	0.014	0.027	0.000	0.000	0.012	0.048	0.042	0.000																				
		Back	0.299	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.800	1.359	1.064	1.361	1.288	1.415	1.119	1.416	1.343	1.361	1.066	1.363	1.289	0.017	0.029	0.098	0.026	0.024	0.017	0.698	0.025	0.324	0.320	0.746	0.324	0.367	0.363	0.788	0.368	0.323	0.318	0.743	0.323								
		Left side	0.330	0.384	0.912	0.353	0.501	0.282	0.595	0.260	0.665	0.826	0.689	0.885	0.675	1.156	1.019	1.215	1.005	0.807	0.670	0.865	0.656	0.068	0.538	0.081	0.000	0.135	0.302	0.100	0.134																				
		Right side	0.170								0.929	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199																												
Top side			0.088	0.396	0.353	0.026	0.060	0.045	0.150	3.120	0.383	0.405	0.395	0.461	0.576	0.597	0.588	0.653	0.549	0.570	0.561	0.626																													
LTE Band 7	Front	0.387	0.282	0.513	0.220	0.203	0.095	0.129	0.137	0.675	0.613	0.545	0.566	0.571	0.757	0.689	0.711	0.716	0.574	0.506	0.528	0.533																													
	Back	0.143	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.800	1.262	0.966	1.263	1.190	1.318	1.022	1.319	1.246	1.264	0.968	1.265	1.192	0.000	0.029	0.098	0.026	0.024	0.017	0.698	0.025	0.314		0.734	0.314	0.356	0.352	0.778	0.357	0.311		0.733	0.312									
	Left side		0.384	0.912	0.353	0.501	0.282	0.595	0.260	0.665	0.620	0.483	0.678	0.469	0.950	0.813	1.008	0.799	0.600	0.463	0.659	0.450	0.000	0.538	0.081	0.000	0.135	0.302	0.100	0.134																					
	Right side	0.469								0.929	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386																													
	Top side		0.088	0.396	0.353	0.026	0.060	0.045	0.150	3.120	0.383	0.405	0.395	0.461	0.576	0.597	0.588	0.653	0.549	0.570	0.561	0.626																													

<For Body-worn Exposure condition>

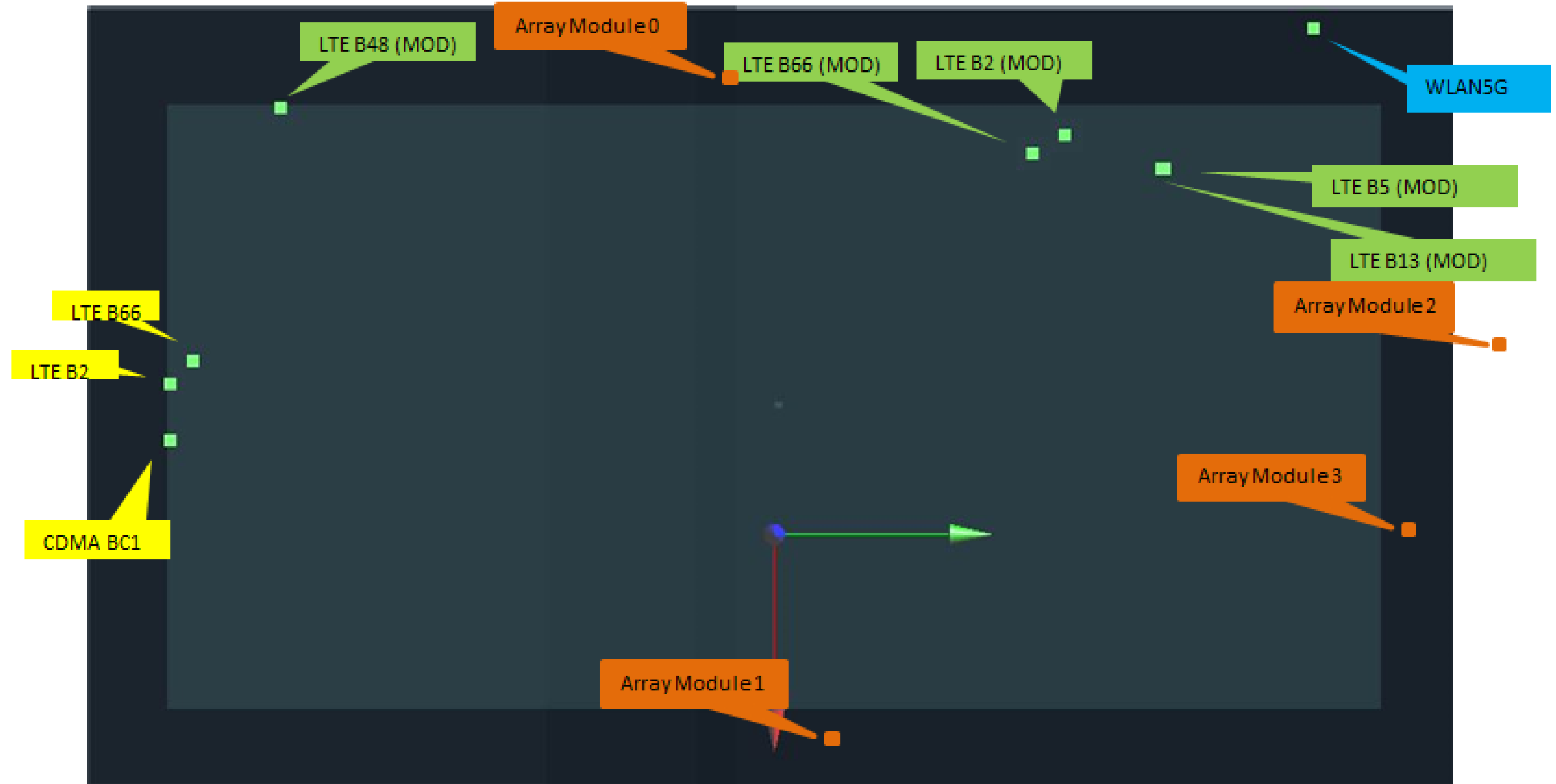
<Phone WWAN Tx On>

Body-Worn			Reported SAR				Report SAR (Mod)				Power Density	Reported SAR/L6 + PD/10 Summation										Single Point SAR Value from Power Density Location								Single Point SAR from Power Density Location Summation (Peak SAR/L6 + PD/10)													
WWAN Band	Exposure Position		1	2	3	4	5	7	8	10	11	1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation	1	2	3	4	5	7	8	10	1+2+5+11 Summation	1+2+7+11 Summation	1+2+8+11 Summation	1+2+10+11 Summation	1+3+5+11 Summation	1+3+7+11 Summation	1+3+8+11 Summation	1+3+10+11 Summation	1+4+5+11 Summation	1+4+7+11 Summation	1+4+8+11 Summation	1+4+10+11 Summation
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD	WWAN													2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)													
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm²2(W/m²)	1g SAR (W/kg)													1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)													
CDMA	CDMA2000 BC0	Front	0.690	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.675	0.802	0.734	0.756	0.868	0.996	0.929	0.950	0.955	0.763	0.696	0.717	0.722	0.017	0.029	0.025	0.026	0.024	0.646	0.698	0.006	0.324	0.713	0.746	0.313	0.321	0.710	0.743	0.310	0.311			
		Back	0.282	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.800	1.349	1.053	1.350	1.258	1.404	1.109	1.406	1.333	1.351	1.055	1.352	1.279	0.000	0.029	0.025	0.026	0.024	0.646	0.698	0.006	0.314	0.702	0.734	0.302	0.311	0.699	0.732	0.299	0.311			
	CDMA2000 BC1	Front	1.072	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.675	1.041	0.973	0.994	1.106	1.235	1.168	1.189	1.194	1.002	0.934	0.956	0.961	0.017	0.027	0.069	0.000	0.077	0.041	0.042	0.038	0.144	0.119	0.170	0.147	0.148	0.145	0.127	0.743	0.310	0.311		
		Back	0.249	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.800	1.328	1.033	1.329	1.237	1.384	1.088	1.385	1.312	1.302	1.034	1.331	1.258	0.000	0.029	0.025	0.026	0.024	0.646	0.698	0.006	0.314	0.702	0.734	0.302	0.311	0.699	0.732	0.299	0.311			
LTE	LTE Band 2	Front	0.910	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.675	0.939	0.872	0.893	1.005	1.134	1.066	1.088	1.093	0.901	0.833	0.854	0.859	0.000	0.027	0.069	0.000	0.077	0.041	0.042	0.038				0.108	0.159	0.136	0.137	0.134				
		Back	0.239	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.800	1.322	1.026	1.323	1.231	1.378	1.082	1.379	1.306	1.324	1.028	1.325	1.252	0.000	0.029	0.025	0.026	0.024	0.646	0.698	0.006	0.314	0.702	0.734	0.302	0.311	0.699	0.732	0.299	0.311			
	LTE Band 66	Front	1.144	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.675	1.086	1.018	1.039	1.151	1.280	1.213	1.234	1.239	1.047	0.979	1.001	1.006	0.009	0.027	0.069	0.000	0.077	0.041	0.042	0.038	0.139	0.116	0.117	0.114	0.165	0.142	0.143	0.140	0.122	0.100	0.097	
		Back	0.315	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.800	1.369	1.074	1.371	1.278	1.425	1.129	1.426	1.353	1.371	1.076	1.373	1.299	0.000	0.029	0.025	0.026	0.024	0.646	0.698	0.006	0.314	0.702	0.734	0.302	0.311	0.699	0.732	0.299	0.311			

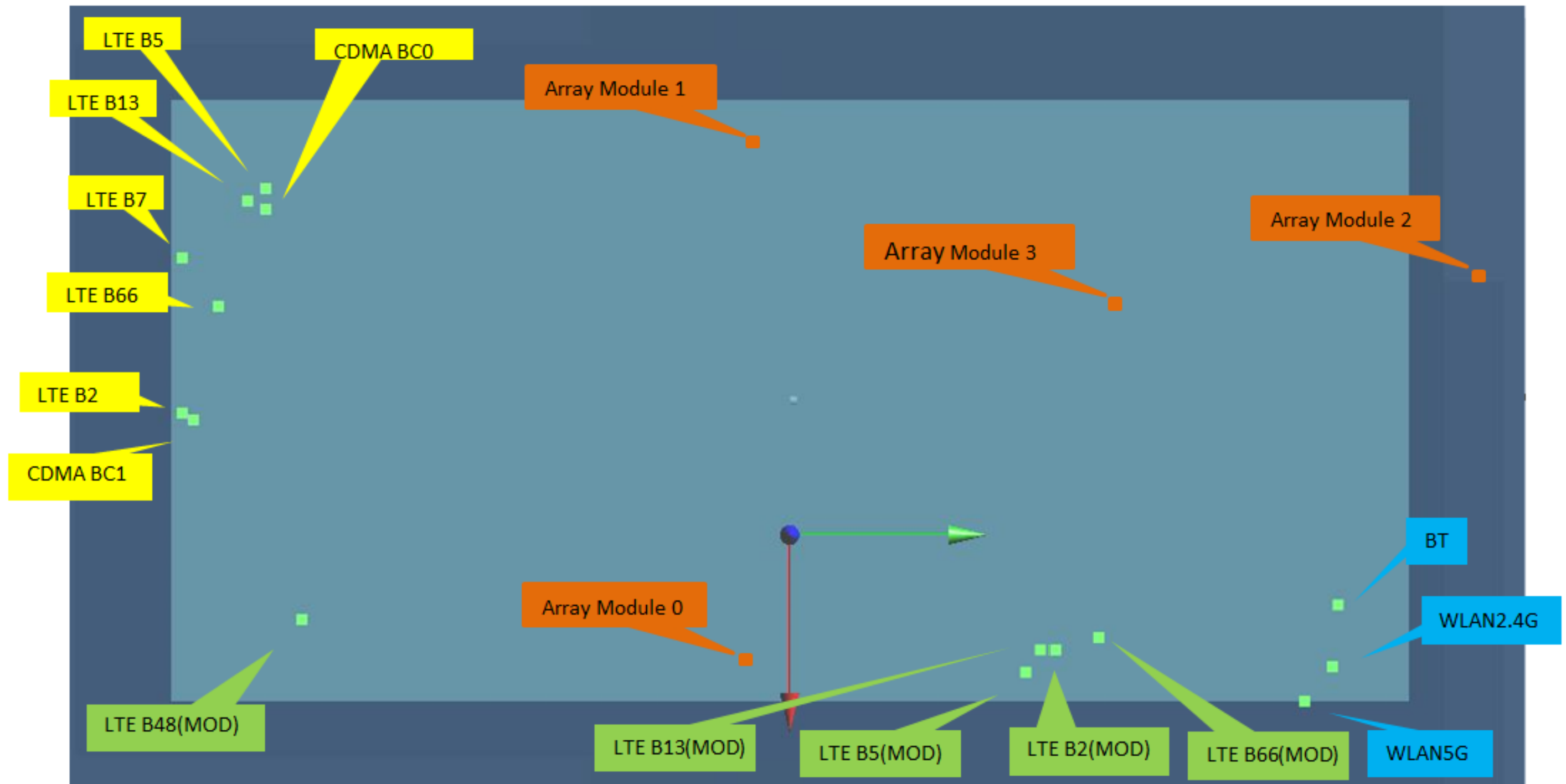
<Phone WWAN Tx Off>

Body-Worn	Reported SAR			Report SAR (Mod)						Power Density	Reported SAR/L6 + PD/10 Summation										Single Point SAR Value from Power Density Location								Single Point SAR from Power Density Location Summation (Peak SAR/L6 + PD/10)							
Exposure Position	2	3	4	5	7	8	10	11	2+5+11 Summation	2+7+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+7+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+7+11 Summation	4+8+11 Summation	4+10+11 Summation	2	3	4	5	7	8	10	2+5+11 Summation	2+8+11 Summation	2+10+11 Summation	3+5+11 Summation	3+8+11 Summation	3+10+11 Summation	4+5+11 Summation	4+8+11 Summation	4+10+11 Summation
	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)	PD													2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	LTE B2 (MOD)	LTE B5 (MOD)	LTE B13(MOD)	LTE B66(MOD)									
	1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm*2(W/m ²)													1g SAR (W/kg)	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)									
Front	0.282	0.593	0.220	0.203	0.095	0.129	0.137	0.675	0.371	0.303	0.324	0.436	0.565	0.498	0.519	0.524	0.332	0.264	0.286	0.291																
Back	0.047	0.136	0.050	1.381	0.908	1.383	1.266	2.800	1.173	0.877	1.174	1.081	1.228	0.933	1.229	1.156	1.174	0.879	1.176	1.103	0.029	0.025	0.026	0.024	0.646	0.698	0.006	0.313	0.734	0.302	0.311	0.732	0.162	0.159	0.453	0.020

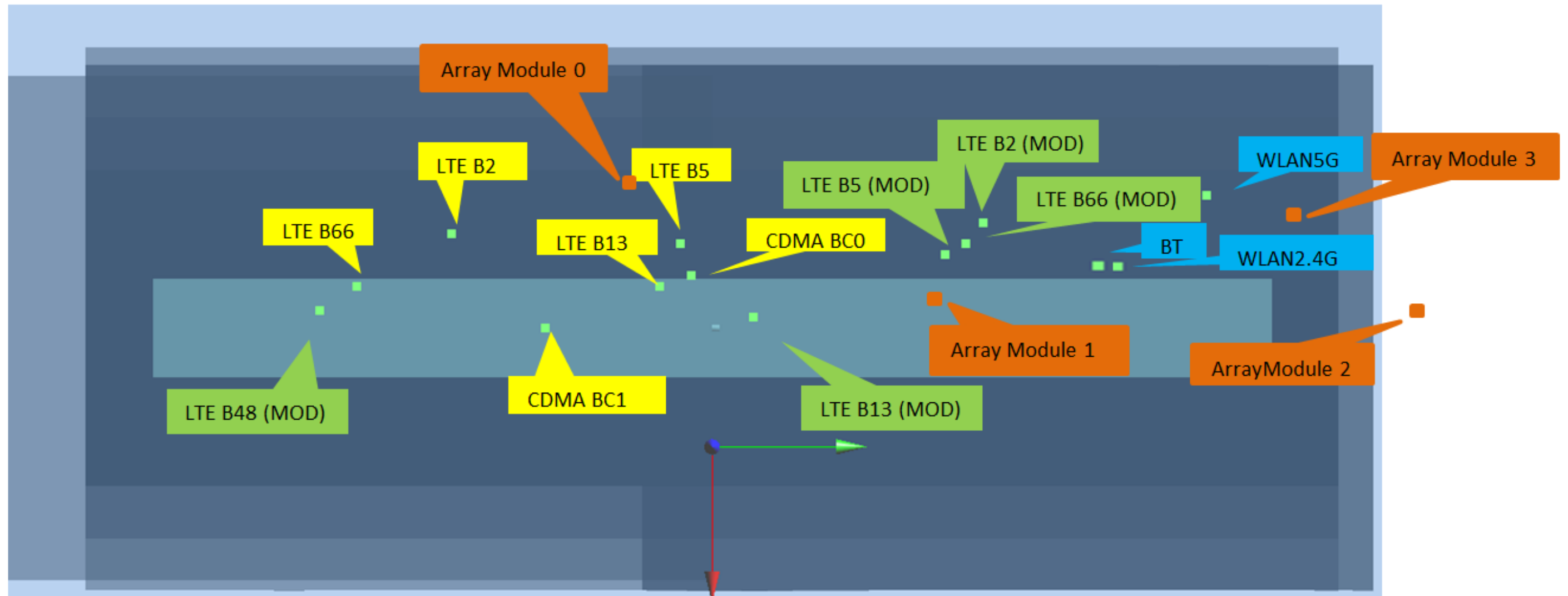
Each transmitter SAR and PD peak location for Front exposure position



Each transmitter SAR and PD peak location for Back exposure position



Each transmitter SAR and PD peak location for Left Side exposure position



Each transmitter SAR and PD peak location for Right Cheek exposure position

