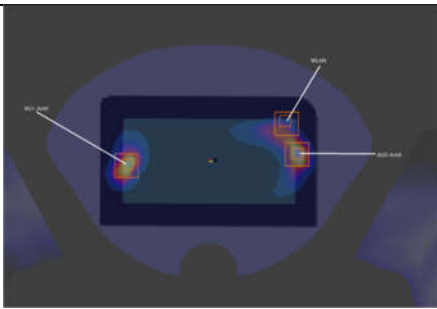
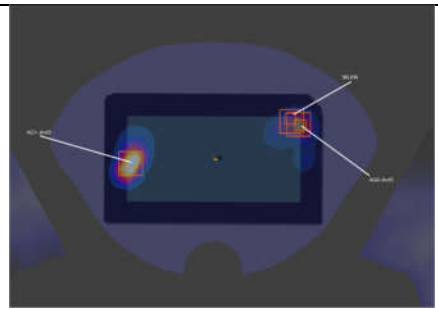
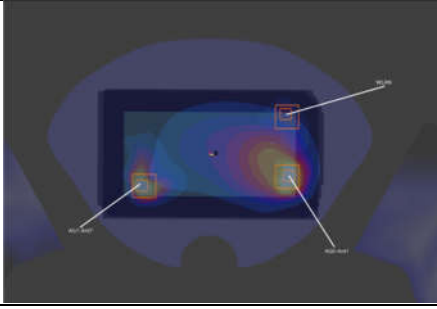
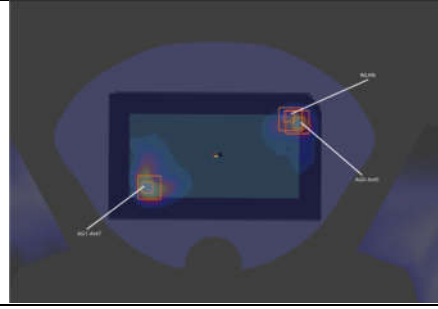
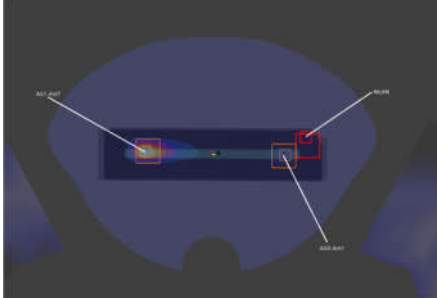
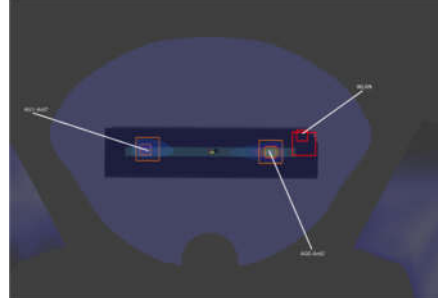
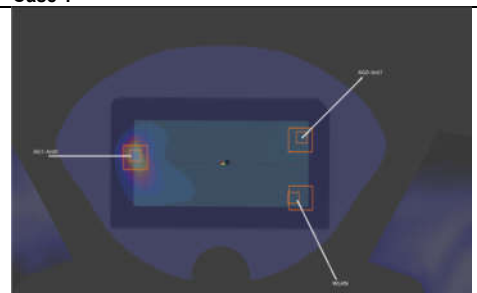
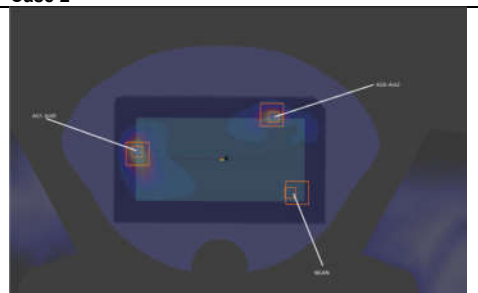
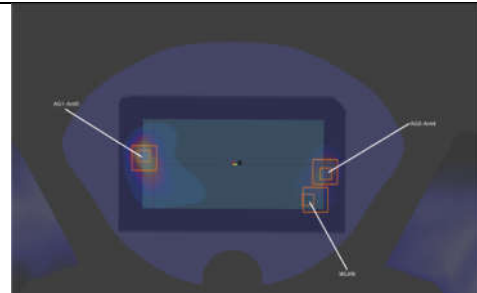
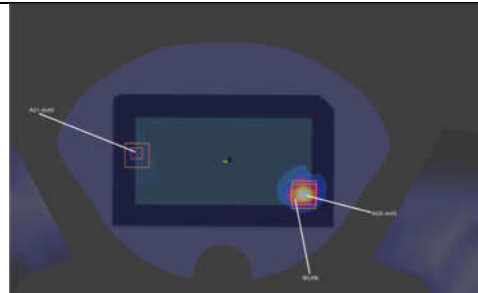
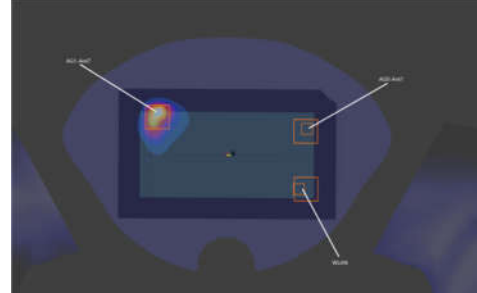
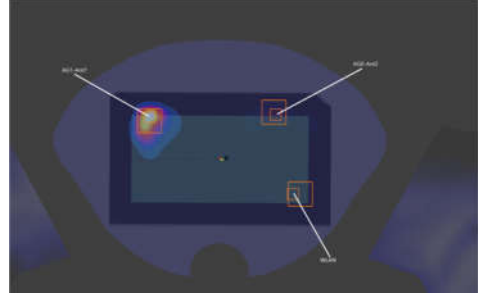
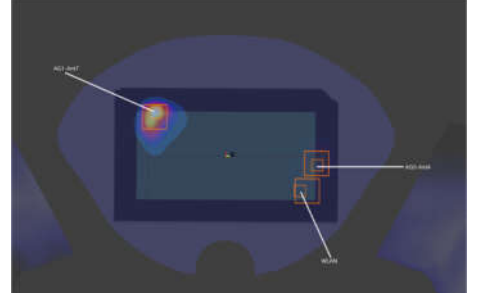
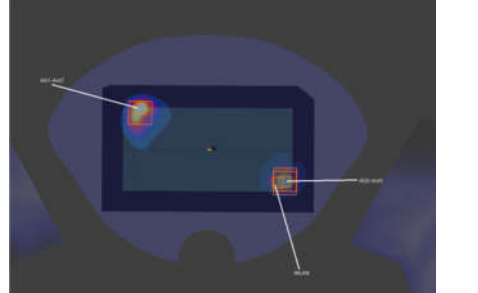
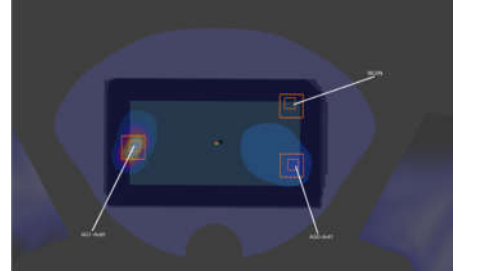
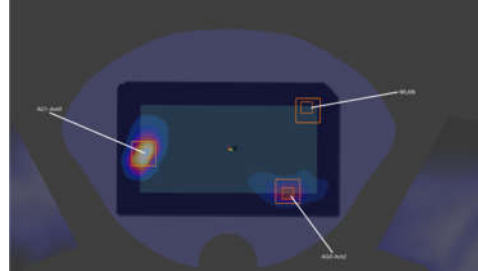
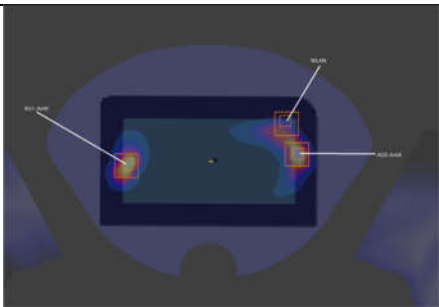
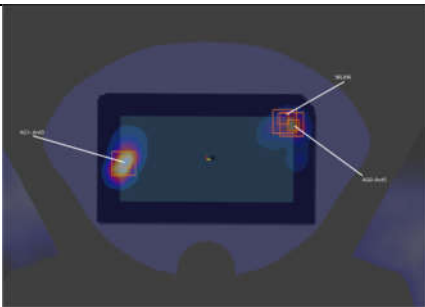
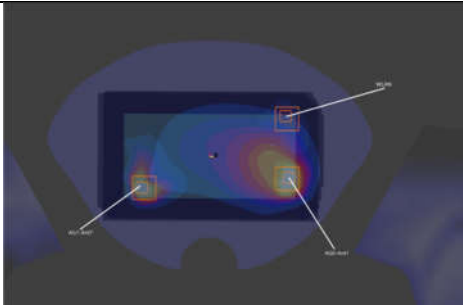
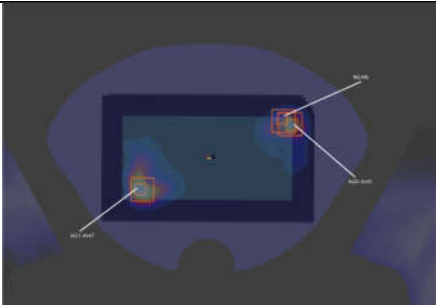


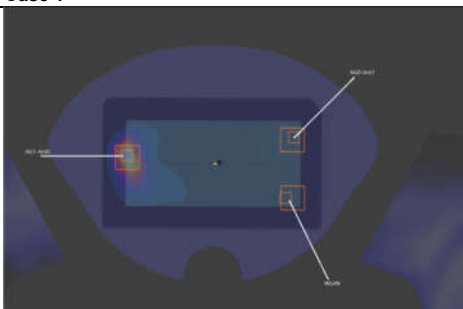
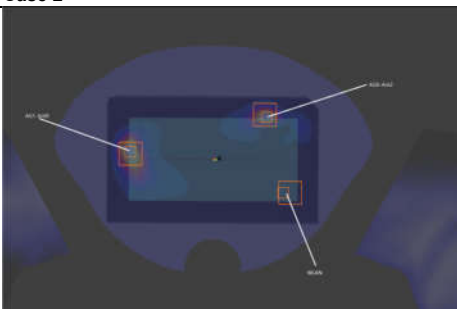
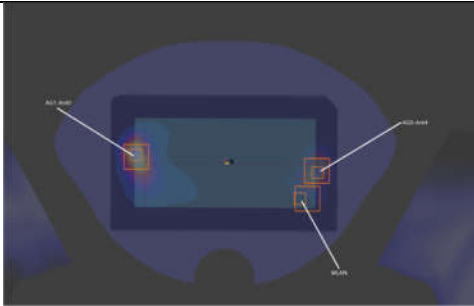
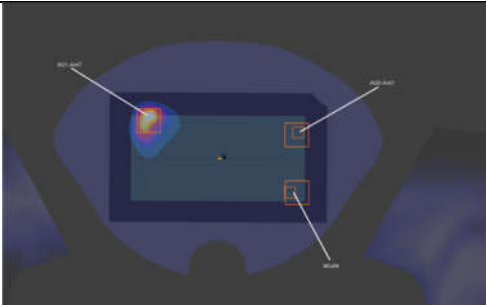
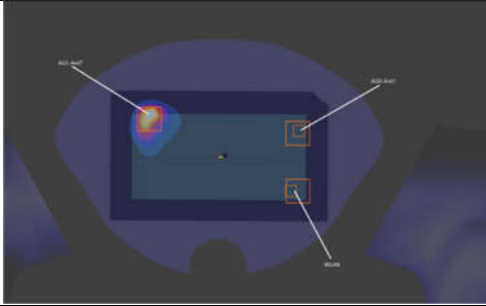
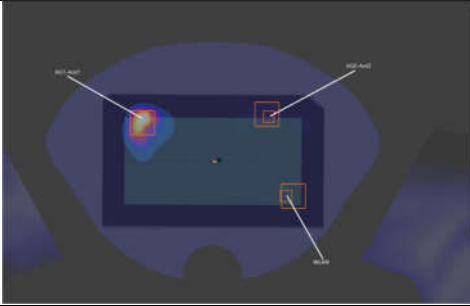
Case 11 	Case 12 
Case 13 	Case 14 
Case 15 	Case 16 

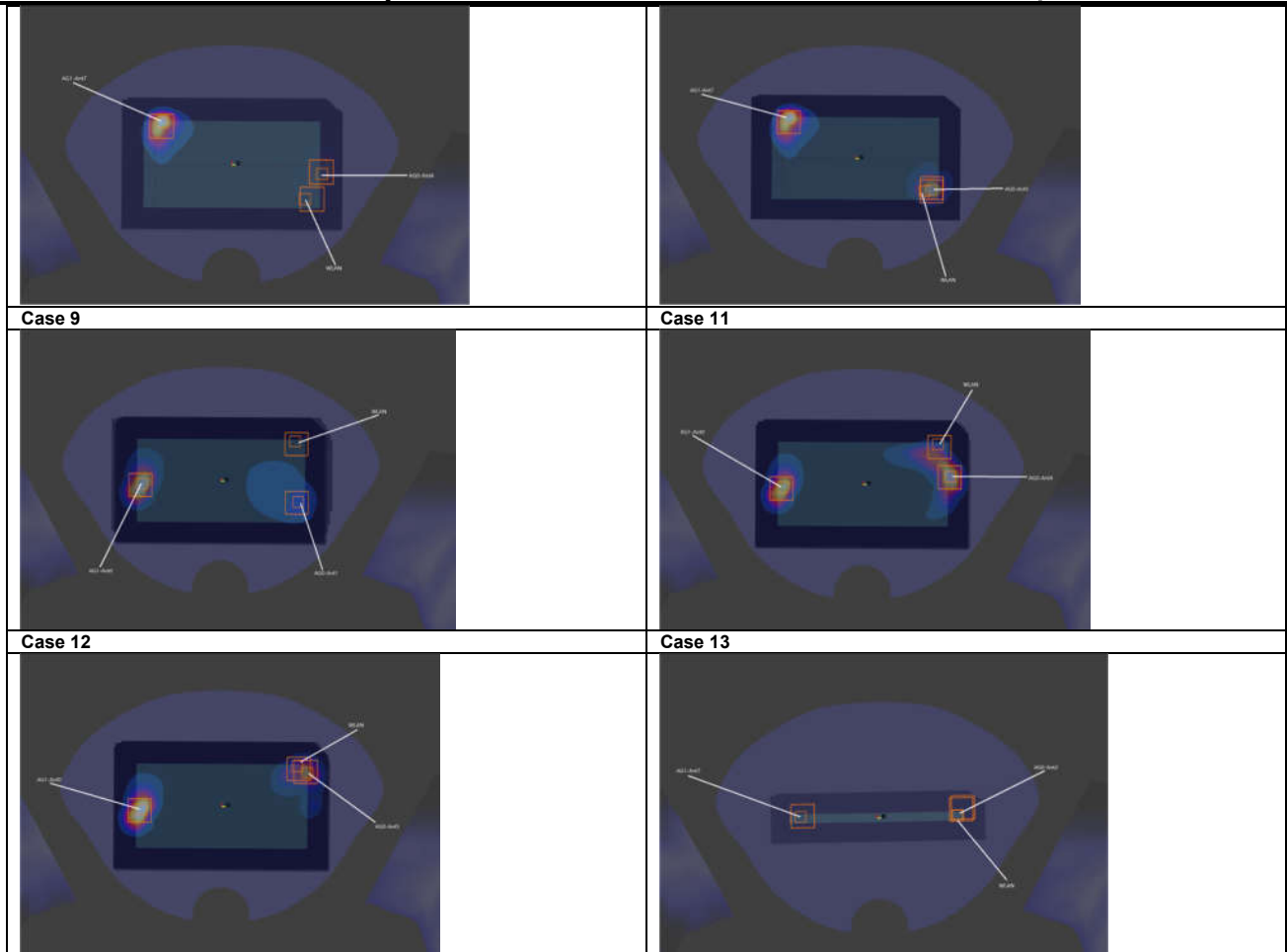
For Body-worn:

Case 1 	Case 2 
Case 3 	Case 4 
Case 5 	Case 6 
Case 7 	Case 8 
Case 9 	Case 10 

Case 11 	Case 12 
Case 13 	Case 14 

For Extremity:

Case 1 	Case 2 
Case 3 	Case 4 
Case 5 	Case 6 
Case 7	Case 8





<Head>

Case No	Band	Position	SAR (W/kg)		Gap	SAR (W/kg) peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					(mm)	X	Y	Z				
Case 1	AG1-Ant0	Right Cheek	0.292	0.29	0mm	8.4	-319.4	-169.6	73.4	1.61	0.03	Not required
	AG0-Ant1		1.044	1.32	0mm	55.4	-263.1	-171.1				
	WLAN		0.274		0mm							
	AG1-Ant0		0.292	0.29	0mm	55.4	-263.1	-171.1	68.6	1.61	0.03	Not required
	AG0-Ant1		1.044	1.32	0mm							
	WLAN		0.274		0mm	-0.8	-302.3	-167.3				
Case 2	AG1-Ant0	Left Cheek	0.189	0.19	0mm	69.2	282.8	-170.5	59.0	1.74	0.04	Not required
	AG0-Ant4		0.963	1.55	0mm	24.5	321.3	-171				
	WLAN		0.589		0mm							
	AG1-Ant0		0.189	0.19	0mm	69.2	282.8	-170.5	65.0	1.74	0.04	Not required
	AG0-Ant4		0.963	1.55	0mm							
	WLAN		0.589		0mm	19.2	324.4	-170.5				
Case 3	AG1-Ant0	Left Cheek	0.189	0.19	0mm	69.2	282.8	-170.5	67.3	1.76	0.03	Not required
	AG0-Ant5		0.984	1.57	0mm	24.2	332.9	-170.4				
	WLAN		0.589		0mm							
	AG1-Ant0		0.189	0.19	0mm	69.2	282.8	-170.5	65.0	1.76	0.04	Not required
	AG0-Ant5		0.984	1.57	0mm							
	WLAN		0.589		0mm	19.2	324.4	-170.5				
Case 4	AG1-Ant7	Left Cheek	0.281	0.28	0mm	54	246.8	-169.7	80.1	1.83	0.03	Not required
	AG0-Ant4		0.963	1.55	0mm	24.5	321.3	-171				
	WLAN		0.589		0mm							
	AG1-Ant7		0.281	0.28	0mm	54	246.8	-169.7	85.0	1.83	0.03	Not required
	AG0-Ant4		0.963	1.55	0mm							
	WLAN		0.589		0mm	19.2	324.4	-170.5				
Case 5	AG1-Ant7	Left Cheek	0.281	0.28	0mm	54	246.8	-169.7	91.1	1.85	0.03	Not required
	AG0-Ant5		0.984	1.57	0mm	24.2	332.9	-170.4				
	WLAN		0.589		0mm							
	AG1-Ant7		0.281	0.28	0mm	54	246.8	-169.7	85.0	1.85	0.03	Not required
	AG0-Ant5		0.984	1.57	0mm							
	WLAN		0.589		0mm	19.2	324.4	-170.5				
Case 6	AG1-Ant0	Left Cheek	0.115	0.12	0mm	42.8	269.9	-172.4	61.6	1.60	0.03	Not required
	AG0-Ant4		0.975	1.48	0mm	7.2	320.1	-169.4				
	WLAN		0.509		0mm							
	AG1-Ant0		0.115	0.12	0mm	42.8	269.9	-172.4	57.5	1.60	0.04	Not required
	AG0-Ant4		0.975	1.48	0mm							
	WLAN		0.509		0mm	20.6	322.9	-170.4				
Case 7	AG1-Ant7	Left Cheek	0.171	0.17	0mm	54	246.8	-169.7	87.0	1.66	0.02	Not required
	AG0-Ant4		0.975	1.48	0mm	7.2	320.1	-169.4				
	WLAN		0.509		0mm							
	AG1-Ant7		0.171	0.17	0mm	54	246.8	-169.7	83.1	1.66	0.03	Not required
	AG0-Ant4		0.975	1.48	0mm							
	WLAN		0.509		0mm	20.6	322.9	-170.4				



<Hotspot>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 1	AG1-Ant0	Front	1.208	1.21	5mm	-25	-78.2	-203	154.0	2.39	0.02	Not required
	AG0-Ant1		0.709	1.19	5mm	-55	72.8	-203				
	WLAN		0.477		5mm							
	AG1-Ant0		1.208	1.21	5mm	-25	-78.2	-203	146.7	2.39	0.03	Not required
	AG0-Ant1		0.709	1.19	5mm							
	WLAN		0.477		5mm	15	62.9	-203				
Case 2	AG1-Ant0	Front	1.208	1.21	5mm	-25	-78.2	-203	134.5	2.14	0.02	Not required
	AG0-Ant2		0.452	0.93	5mm	-65	50.2	-203				
	WLAN		0.477		5mm							
	AG1-Ant0		1.208	1.21	5mm	-25	-78.2	-203	146.7	2.14	0.02	Not required
	AG0-Ant2		0.452	0.93	5mm							
	WLAN		0.477		5mm	15	62.9	-203				
Case 3	AG1-Ant0	Front	1.208	1.21	5mm	-25	-78.2	-203	162.1	2.18	0.02	Not required
	AG0-Ant4		0.497	0.97	5mm	-15.6	83.6	-203				
	WLAN		0.477		5mm							
	AG1-Ant0		1.208	1.21	5mm	-25	-78.2	-203	146.7	2.18	0.02	Not required
	AG0-Ant4		0.497	0.97	5mm							
	WLAN		0.477		5mm	15	62.9	-203				
Case 4	AG1-Ant0	Front	1.208	1.21	5mm	-25	-78.2	-203	162.1	2.60	0.03	Not required
	AG0-Ant5		0.911	1.39	5mm	5	81.1	-203				
	WLAN		0.477		5mm							
	AG1-Ant0		1.208	1.21	5mm	-25	-78.2	-203	146.7	2.60	0.03	Not required
	AG0-Ant5		0.911	1.39	5mm							
	WLAN		0.477		5mm	15	62.9	-203				
Case 5	AG1-Ant7	Front	0.944	0.94	5mm	-65	-62.7	-203	135.9	2.13	0.02	Not required
	AG0-Ant1		0.709	1.19	5mm	-55	72.8	-203				
	WLAN		0.477		5mm							
	AG1-Ant7		0.944	0.94	5mm	-65	-62.7	-203	148.9	2.13	0.02	Not required
	AG0-Ant1		0.709	1.19	5mm							
	WLAN		0.477		5mm	15	62.9	-203				
Case 6	AG1-Ant7	Front	0.944	0.94	5mm	-65	-62.7	-203	112.9	1.87	0.02	Not required
	AG0-Ant2		0.452	0.93	5mm	-65	50.2	-203				
	WLAN		0.477		5mm							
	AG1-Ant7		0.944	0.94	5mm	-65	-62.7	-203	148.9	1.87	0.02	Not required
	AG0-Ant2		0.452	0.93	5mm							
	WLAN		0.477		5mm	15	62.9	-203				
Case 7	AG1-Ant7	Front	0.944	0.94	5mm	-65	-62.7	-203	154.4	1.92	0.02	Not required
	AG0-Ant4		0.497	0.97	5mm	-15.6	83.6	-203				
	WLAN		0.477		5mm							
	AG1-Ant7		0.944	0.94	5mm	-65	-62.7	-203	148.9	1.92	0.02	Not required
	AG0-Ant4		0.497	0.97	5mm							
	WLAN		0.477		5mm	15	62.9	-203				
Case 8	AG1-Ant7	Front	0.944	0.94	5mm	-65	-62.7	-203	159.9	2.33	0.02	Not required
	AG0-Ant5		0.911	1.39	5mm	5	81.1	-203				
	WLAN		0.477		5mm							
	AG1-Ant7		0.944	0.94	5mm	-65	-62.7	-203	148.9	2.33	0.02	Not required
	AG0-Ant5		0.911	1.39	5mm							
	WLAN		0.477		5mm	15	62.9	-203				
Case 9	AG1-Ant0	Back	1.283	1.28	5mm	-15	-72.4	-203	146.9	2.50	0.03	Not required
	AG0-Ant1		0.861	1.22	5mm	-10	74.4	-203				
	WLAN		0.356		5mm							
	AG1-Ant0		1.283	1.28	5mm	-15	-72.4	-203	131.8	2.50	0.03	Not required
	AG0-Ant1		0.861	1.22	5mm							



FCC SAR Test Report

Report No. : FA2O2807

	WLAN		0.356		5mm	-65	49.6	-203				
Case 10	AG1-Ant0	Back	1.283	1.28	5mm	-15	-72.4	-203	132.6	1.98	0.02	Not required
	AG0-Ant2		0.343	0.70	5mm	15	56.8	-203				
	WLAN		0.356		5mm							
	AG1-Ant0		1.283		5mm	-15	-72.4	-203	131.8	1.98	0.02	Not required
	AG0-Ant2		0.343		5mm							
	WLAN		0.356		5mm	-65	49.6	-203				
Case 11	AG1-Ant0	Back	1.283	1.28	5mm	-15	-72.4	-203	155.9	2.07	0.02	Not required
	AG0-Ant4		0.434	0.79	5mm	-25	83.2	-203				
	WLAN		0.356		5mm							
	AG1-Ant0		1.283		5mm	-15	-72.4	-203	131.8	2.07	0.02	Not required
	AG0-Ant4		0.434		5mm							
	WLAN		0.356		5mm	-65	49.6	-203				
Case 12	AG1-Ant0	Back	1.283	1.28	5mm	-15	-72.4	-203	155.6	2.37	0.02	Not required
	AG0-Ant5		0.734	1.09	5mm	-55	78	-203				
	WLAN		0.356		5mm							
	AG1-Ant0		1.283		5mm	-15	-72.4	-203	131.8	2.37	0.03	Not required
	AG0-Ant5		0.734		5mm							
	WLAN		0.356		5mm	-65	49.6	-203				
Case 13	AG1-Ant7	Back	0.605	0.61	5mm	5	-69.3	-203	144.5	1.82	0.02	Not required
	AG0-Ant1		0.861	1.22	5mm	-10	74.4	-203				
	WLAN		0.356		5mm							
	AG1-Ant7		0.605		5mm	5	-69.3	-203	138.0	1.82	0.02	Not required
	AG0-Ant1		0.861		5mm							
	WLAN		0.356		5mm	-65	49.6	-203				
Case 14	AG1-Ant7	Back	0.605	0.61	5mm	5	-69.3	-203	159.1	1.70	0.01	Not required
	AG0-Ant5		0.734	1.09	5mm	-55	78	-203				
	WLAN		0.356		5mm							
	AG1-Ant7		0.605		5mm	5	-69.3	-203	138.0	1.70	0.02	Not required
	AG0-Ant5		0.734		5mm							
	WLAN		0.356		5mm	-65	49.6	-203				
Case 15	AG1-Ant7	Left Side	1.288	1.29	5mm	-25	-58.7	-203	90.3	1.95	0.03	Not required
	AG0-Ant1		0.608	0.66	5mm	-33	31.2	-203				
	WLAN		0.051		5mm							
	AG1-Ant7		1.288		5mm	-25	-58.7	-203	122.4	1.95	0.02	Not required
	AG0-Ant1		0.608		5mm							
	WLAN		0.051		5mm	-25	63.7	-203				
Case 16	AG1-Ant7	Left Side	1.288	1.29	5mm	-25	-58.7	-203	109.7	2.34	0.03	Not required
	AG0-Ant2		1.004	1.06	5mm	-33	50.7	-203				
	WLAN		0.051		5mm							
	AG1-Ant7		1.288		5mm	-25	-58.7	-203	122.4	2.34	0.03	Not required
	AG0-Ant2		1.004		5mm							
	WLAN		0.051		5mm	-25	63.7	-203				



<Body-worn>

Case No	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				
Case 1	AG1-Ant0	Front	1.208	1.21	5mm	-35	-77.3	-203	151.4	2.39	0.02	Not required
	AG0-Ant1		0.709	1.18	5mm	-55	72.8	-203				
	WLAN		0.471		5mm							
	AG1-Ant0		1.208	1.21	5mm	-35	-77.3	-203	148.8	2.39	0.02	Not required
	AG0-Ant1		0.709	1.18	5mm							
	WLAN		0.471		5mm	15	62.9	-203				
Case 2	AG1-Ant0	Front	1.208	1.21	5mm	-35	-77.3	-203	131.0	2.13	0.02	Not required
	AG0-Ant2		0.452	0.92	5mm	-65	50.2	-203				
	WLAN		0.471		5mm							
	AG1-Ant0		1.208	1.21	5mm	-35	-77.3	-203	148.8	2.13	0.02	Not required
	AG0-Ant2		0.452	0.92	5mm							
	WLAN		0.471		5mm	15	62.9	-203				
Case 3	AG1-Ant0	Front	1.208	1.21	5mm	-35	-77.3	-203	162.1	2.20	0.02	Not required
	AG0-Ant4		0.522	0.99	5mm	-15.6	83.6	-203				
	WLAN		0.471		5mm							
	AG1-Ant0		1.208	1.21	5mm	-35	-77.3	-203	148.8	2.20	0.02	Not required
	AG0-Ant4		0.522	0.99	5mm							
	WLAN		0.471		5mm	15	62.9	-203				
Case 4	AG1-Ant0	Front	1.208	1.21	5mm	-35	-77.3	-203	163.4	2.61	0.03	Not required
	AG0-Ant5		0.928	1.40	5mm	5	81.1	-203				
	WLAN		0.471		5mm							
	AG1-Ant0		1.208	1.21	5mm	-35	-77.3	-203	148.8	2.61	0.03	Not required
	AG0-Ant5		0.928	1.40	5mm							
	WLAN		0.471		5mm	15	62.9	-203				
Case 5	AG1-Ant7	Front	0.979	0.98	5mm	-65	-62.7	-203	135.9	2.16	0.02	Not required
	AG0-Ant1		0.709	1.18	5mm	-55	72.8	-203				
	WLAN		0.471		5mm							
	AG1-Ant7		0.979	0.98	5mm	-65	-62.7	-203	148.9	2.16	0.02	Not required
	AG0-Ant1		0.709	1.18	5mm							
	WLAN		0.471		5mm	15	62.9	-203				
Case 6	AG1-Ant7	Front	0.979	0.98	5mm	-65	-62.7	-203	112.9	1.90	0.02	Not required
	AG0-Ant2		0.452	0.92	5mm	-65	50.2	-203				
	WLAN		0.471		5mm							
	AG1-Ant7		0.979	0.98	5mm	-65	-62.7	-203	148.9	1.90	0.02	Not required
	AG0-Ant2		0.452	0.92	5mm							
	WLAN		0.471		5mm	15	62.9	-203				
Case 7	AG1-Ant7	Front	0.979	0.98	5mm	-65	-62.7	-203	154.4	1.97	0.02	Not required
	AG0-Ant4		0.522	0.99	5mm	-15.6	83.6	-203				
	WLAN		0.471		5mm							
	AG1-Ant7		0.979	0.98	5mm	-65	-62.7	-203	148.9	1.97	0.02	Not required
	AG0-Ant4		0.522	0.99	5mm							
	WLAN		0.471		5mm	15	62.9	-203				
Case 8	AG1-Ant7	Front	0.979	0.98	5mm	-65	-62.7	-203	159.9	2.38	0.02	Not required
	AG0-Ant5		0.928	1.40	5mm	5	81.1	-203				
	WLAN		0.471		5mm							
	AG1-Ant7		0.979	0.98	5mm	-65	-62.7	-203	148.9	2.38	0.02	Not required
	AG0-Ant5		0.928	1.40	5mm							
	WLAN		0.471		5mm	15	62.9	-203				
Case 9	AG1-Ant0	Back	1.283	1.28	5mm	-15	-72.4	-203	146.9	2.53	0.03	Not required
	AG0-Ant1		0.861	1.25	5mm	-10	74.4	-203				
	WLAN		0.389		5mm							
	AG1-Ant0		1.283	1.28	5mm	-15	-72.4	-203	131.8	2.53	0.03	Not required
	AG0-Ant1		0.861	1.25	5mm							
	WLAN		0.389		5mm							



FCC SAR Test Report

Report No. : FA2O2807

	WLAN		0.389		5mm	-65	49.6	-203				
Case 10	AG1-Ant0	Back	1.283	1.28	5mm	-15	-72.4	-203	132.6	2.06	0.02	Not required
	AG0-Ant2		0.385	0.77	5mm	15	56.8	-203				
	WLAN		0.389		5mm							
	AG1-Ant0		1.283	1.28	5mm	-15	-72.4	-203	131.8	2.06	0.02	Not required
	AG0-Ant2		0.385	0.77	5mm							
	WLAN		0.389		5mm	-65	49.6	-203				
Case 11	AG1-Ant0	Back	1.283	1.28	5mm	-15	-72.4	-203	155.9	2.11	0.02	Not required
	AG0-Ant4		0.434	0.82	5mm	-25	83.2	-203				
	WLAN		0.389		5mm							
	AG1-Ant0		1.283	1.28	5mm	-15	-72.4	-203	131.8	2.11	0.02	Not required
	AG0-Ant4		0.434	0.82	5mm							
	WLAN		0.389		5mm	-65	49.6	-203				
Case 12	AG1-Ant0	Back	1.283	1.28	5mm	-15	-72.4	-203	155.6	2.41	0.02	Not required
	AG0-Ant5		0.734	1.12	5mm	-55	78	-203				
	WLAN		0.389		5mm							
	AG1-Ant0		1.283	1.28	5mm	-15	-72.4	-203	131.8	2.41	0.03	Not required
	AG0-Ant5		0.734	1.12	5mm							
	WLAN		0.389		5mm	-65	49.6	-203				
Case 13	AG1-Ant7	Back	0.605	0.61	5mm	5	-69.3	-203	144.5	1.86	0.02	Not required
	AG0-Ant1		0.861	1.25	5mm	-10	74.4	-203				
	WLAN		0.389		5mm							
	AG1-Ant7		0.605	0.61	5mm	5	-69.3	-203	138.0	1.86	0.02	Not required
	AG0-Ant1		0.861	1.25	5mm							
	WLAN		0.389		5mm	-65	49.6	-203				
Case 14	AG1-Ant7	Back	0.605	0.61	5mm	5	-69.3	-203	159.1	1.73	0.01	Not required
	AG0-Ant5		0.734	1.12	5mm	-55	78	-203				
	WLAN		0.389		5mm							
	AG1-Ant7		0.605	0.61	5mm	5	-69.3	-203	138.0	1.73	0.02	Not required
	AG0-Ant5		0.734	1.12	5mm							
	WLAN		0.389		5mm	-65	49.6	-203				

<Extremity>

Case No	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				
Case 1	AG1-Ant0	Front	2.742	2.74	0mm	-35	-97.4	-203	179.1	6.18	0.09	Not required
	AG0-Ant1		2.681	3.44	0mm	-55	80.6	-203				
	WLAN		0.760		0mm							
	AG1-Ant0		2.742	2.74	0mm	-35	-97.4	-203	178.6	6.18	0.09	Not required
	AG0-Ant1		2.681	3.44	0mm							
	WLAN		0.760		0mm	5	76.7	-203				
Case 2	AG1-Ant0	Front	2.742	2.74	0mm	-35	-97.4	-203	152.6	5.58	0.09	Not required
	AG0-Ant2		2.074	2.83	0mm	-65	52.2	-203				
	WLAN		0.760		0mm							
	AG1-Ant0		2.742	2.74	0mm	-35	-97.4	-203	178.6	5.58	0.07	Not required
	AG0-Ant2		2.074	2.83	0mm							
	WLAN		0.760		0mm	5	76.7	-203				
Case 3	AG1-Ant0	Front	2.742	2.74	0mm	-35	-97.4	-203	180.3	6.26	0.09	Not required
	AG0-Ant4		2.760	3.52	0mm	-15	81.8	-203				
	WLAN		0.760		0mm							
	AG1-Ant0		2.742	2.74	0mm	-35	-97.4	-203	178.6	6.26	0.09	Not required
	AG0-Ant4		2.760	3.52	0mm							
	WLAN		0.760		0mm	5	76.7	-203				
Case 4	AG1-Ant0	Front	2.742	2.74	0mm	-35	-97.4	-203	176.9	6.25	0.09	Not required
	AG0-Ant5		2.750	3.51	0mm	5	74.9	-203				
	WLAN		0.760		0mm							
	AG1-Ant0		2.742	2.74	0mm	-35	-97.4	-203	178.6	6.25	0.09	Not required
	AG0-Ant5		2.750	3.51	0mm							
	WLAN		0.760		0mm	5	76.7	-203				
Case 5	AG1-Ant7	Front	1.671	1.67	0mm	-55	-71.4	-203	152.0	5.11	0.08	Not required
	AG0-Ant1		2.681	3.44	0mm	-55	80.6	-203				
	WLAN		0.760		0mm							
	AG1-Ant7		1.671	1.67	0mm	-55	-71.4	-203	159.8	5.11	0.07	Not required
	AG0-Ant1		2.681	3.44	0mm							
	WLAN		0.760		0mm	5	76.7	-203				
Case 6	AG1-Ant7	Front	1.671	1.67	0mm	-55	-71.4	-203	124.0	4.51	0.08	Not required
	AG0-Ant2		2.074	2.83	0mm	-65	52.2	-203				
	WLAN		0.760		0mm							
	AG1-Ant7		1.671	1.67	0mm	-55	-71.4	-203	159.8	4.51	0.06	Not required
	AG0-Ant2		2.074	2.83	0mm							
	WLAN		0.760		0mm	5	76.7	-203				
Case 7	AG1-Ant7	Front	1.671	1.67	0mm	-55	-71.4	-203	158.3	5.19	0.07	Not required
	AG0-Ant4		2.760	3.52	0mm	-15	81.8	-203				
	WLAN		0.760		0mm							
	AG1-Ant7		1.671	1.67	0mm	-55	-71.4	-203	159.8	5.19	0.07	Not required
	AG0-Ant4		2.760	3.52	0mm							
	WLAN		0.760		0mm	5	76.7	-203				
Case 8	AG1-Ant7	Front	1.671	1.67	0mm	-55	-71.4	-203	158.1	5.18	0.07	Not required
	AG0-Ant5		2.750	3.51	0mm	5	74.9	-203				
	WLAN		0.760		0mm							
	AG1-Ant7		1.671	1.67	0mm	-55	-71.4	-203	159.8	5.18	0.07	Not required
	AG0-Ant5		2.750	3.51	0mm							
	WLAN		0.760		0mm	5	76.7	-203				
Case 9	AG1-Ant0	Back	2.777	2.78	0mm	-15	-73.9	-203	151.3	4.94	0.07	Not required
	AG0-Ant1		1.956	2.16	0mm	-15	77.4	-203				
	WLAN		0.207		0mm							
	AG1-Ant0		2.777	2.78	0mm	-15	-73.9	-203	153.3	4.94	0.07	Not required

	AG0-Ant1		1.956	2.16	0mm							
	WLAN		0.207		0mm	-65	71	-203				
Case 11	AG1-Ant0	Back	2.777	2.78	0mm	-15	-73.9	-203	156.0	4.35	0.06	Not required
	AG0-Ant4		1.362	1.57	0mm	-25	81.8	-203				
	WLAN		0.207		0mm							
	AG1-Ant0		2.777	2.78	0mm	-15	-73.9	-203	153.3	4.35	0.06	Not required
	AG0-Ant4		1.362	1.57	0mm							
	WLAN		0.207		0mm	-65	71	-203				
Case 12	AG1-Ant0	Back	2.777	2.78	0mm	-15	-73.9	-203	156.5	4.10	0.05	Not required
	AG0-Ant5		1.116	1.32	0mm	-55	77.4	-203				
	WLAN		0.207		0mm							
	AG1-Ant0		2.777	2.78	0mm	-15	-73.9	-203	153.3	4.10	0.05	Not required
	AG0-Ant5		1.116	1.32	0mm							
	WLAN		0.207		0mm	-65	71	-203				
Case 13	AG1-Ant7	Left Side	2.744	2.74	0mm	-25	-87.2	-203	157.6	5.54	0.08	Not required
	AG0-Ant2		2.757	2.80	0mm	-33	70.2	-203				
	WLAN		0.039		0mm							
	AG1-Ant7		2.744	2.74	0mm	-25	-87.2	-203	157.2	5.54	0.08	Not required
	AG0-Ant2		2.757	2.80	0mm							
	WLAN		0.039		0mm	-25	70	-203				

17.8 Maximum Report SAR And SAR Peak Locations

General Note:

1. The maximum report SAR and SAR Peak Locations corresponding to each position of each frequency band of each antenna in the below tables are as follows.
2. The unit of SAR evaluation is W/kg. The unit of x, y, z with Axis evaluation is mm.

<Head>

Right Cheek								
BT Ant6	SAR (W/kg)	0.066	WLAN2.4G MIMO	SAR (W/kg)	0.273			
	Axis	X30.2;Y-261.5;Z-169.1		Axis	X30.8;Y-261.2;Z-169.2			
BT Ant3	SAR (W/kg)	0.111	WLAN5G MIMO	SAR (W/kg)	0.163	WLAN6E MIMO	SAR (W/kg)	0.161
	Axis	X9.8;Y-301.4;Z-169.4		Axis	X-0.8;Y-302.3;Z-167.3		Axis	X0.3;Y-300.9;Z-167.6
Left Cheek								
BT Ant6	SAR (W/kg)	0.194	WLAN2.4G MIMO	SAR (W/kg)	0.354			
	Axis	X46.3;Y331;Z170.1		Axis	X22.2;Y334;Z-170.2			
BT Ant3	SAR (W/kg)	0.188	WLAN5G MIMO	SAR (W/kg)	0.368	WLAN6E MIMO	SAR (W/kg)	0.395
	Axis	X14.6;Y327.1;Z-170.1		Axis	X19.2;Y324.4;Z-170.5		Axis	X18.7;Y325.4;Z-170.6
Left Tilted								
BT Ant6	SAR (W/kg)	0.043	WLAN2.4G MIMO	SAR (W/kg)	0.372			
	Axis	X44;Y332.4;Z-170.1		Axis	X14.8;Y326.9;Z-170.1			
BT Ant3	SAR (W/kg)	0.182	WLAN5G MIMO	SAR (W/kg)	0.263	WLAN6E MIMO	SAR (W/kg)	0.327
	Axis	X13.4;Y327.7;Z-170		Axis	X21;Y323.4;Z-170.7		Axis	X20.6;Y322.9;Z-170.4

Right Cheek							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR (W/kg)	0.292			0.979		
	Axis	X55.4;Y-263.1;Z-171.1			X24.3;Y-332.7;Z-170.4		
GSM1900	SAR (W/kg)	0.042			1.044		
	Axis	X68.5;Y-259.3;Z-169.1			X19.7;Y-335.4;Z-170		
WCDMA II	SAR (W/kg)	0.072			0.993		
	Axis	X66.3;Y-257.6;Z-169.7			X10.1;Y-324.1;Z-169.8		
WCDMA IV	SAR (W/kg)	0.089			0.993		
	Axis	X53.1;Y-247.4;Z-169.8			X21.8;Y-334.2;Z-170.2		
WCDMA V	SAR (W/kg)	0.259			0.982		
	Axis	X57.4;Y-261.9;Z-170.8			X24.7;Y-332.5;Z-170.4		
LTE Band 7	SAR (W/kg)	0.06			0.707		
	Axis	X61.6;Y-242.3;Z-167.5			X19.7;Y-324.1;Z-170.6		
LTE Band 12	SAR (W/kg)	0.159			0.876		
	Axis	X59.1;Y-260.9;Z-170.3			X23.1;Y-333.5;Z-170.3		
LTE Band 13	SAR (W/kg)	0.222					
	Axis	X58.1;Y-261.5;Z-170.6					
LTE Band 25	SAR (W/kg)	0.09			0.992		
	Axis	X69;Y-259;Z-169			X18.5;Y-336.1;Z-169.9		
LTE Band 26	SAR (W/kg)	0.245			0.978		
	Axis	X59.4;Y-260.7;Z-170.3			X25.1;Y-332.3;Z-170.5		
LTE Band 66	SAR (W/kg)	0.126			0.983		
	Axis	X54.6;Y-246.5;Z-169.4			X19.3;Y-335.7;Z-170		
LTE Band 41	SAR (W/kg)	0.077			0.879		
	Axis	X59.9;Y-243.3;Z-168.1			X8.4;Y-319.4;Z-169.6		
LTE Band 42	SAR (W/kg)		0.689				
	Axis		X53.6;Y-326.4;Z-169.7				
LTE Band 48	SAR (W/kg)		0.985				
	Axis		X52.3;Y-327.2;Z-169.8				
FR1 n2	SAR (W/kg)				0.974		
	Axis				X19.7;Y-335.4;Z-170		
FR1 n5	SAR (W/kg)	0.261			0.983		



FCC SAR Test Report

Report No. : FA2O2807

	Axis	X56.6;Y-262.4;Z-170.9			X24.1;Y-332.9;Z-170.4		
FR1 n7	SAR (W/kg)	0.08			0.881		
	Axis	X49.3;Y-249.7;Z-170.5			X19.9;Y-324;Z-170.6		
FR1 n66	SAR (W/kg)	0.093			0.973		
	Axis	X54.1;Y-246.8;Z-169.6			X19.5;Y-335.6;Z-170		
FR1 n41	SAR (W/kg)	0.098			0.848		
	Axis	X51.9;Y-259.5;Z-171.3			X19.6;Y-324.2;Z-170.6		
FR1 n77	SAR (W/kg)		0.978	NA		NA	0.171
	Axis		X48;Y-329.8;Z-170.1	NA		NA	X112;Y-268.7;Z-128.1
FR1 n78	SAR (W/kg)			NA		NA	0.125
	Axis			NA		NA	X112;Y-268.7;Z-128.1

Left Cheek							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR (W/kg)	0.174			NA		
	Axis	X69.2;Y282.8;Z-170.5			NA		
GSM1900	SAR (W/kg)	0.066			NA		
	Axis	X54;Y246.8;Z-169.5			NA		
WCDMA II	SAR (W/kg)	0.128			NA		
	Axis	X53.9;Y246.9;Z-169.6			NA		
WCDMA IV	SAR (W/kg)	0.13			NA		
	Axis	X55.2;Y246;Z-169.2			NA		
WCDMA V	SAR (W/kg)	0.153			NA		
	Axis	X57.7;Y275.9;Z-171.5			NA		
LTE Band 7	SAR (W/kg)	0.058			NA		
	Axis	X55.3;Y281.5;Z-172			NA		
LTE Band 12	SAR (W/kg)	0.125			NA		
	Axis	X59.7;Y277.6;Z-171.1			NA		
LTE Band 13	SAR (W/kg)	0.127					
	Axis	X60.9;Y274;Z-170.9					
LTE Band 25	SAR (W/kg)	0.175			NA		
	Axis	X56.4;Y245.4;Z-168.9			NA		
LTE Band 26	SAR (W/kg)	0.136			NA		
	Axis	X59.6;Y273.7;Z-171.2			NA		
LTE Band 66	SAR (W/kg)	0.189			NA		
	Axis	X54;Y246.8;Z-169.5			NA		
LTE Band 41	SAR (W/kg)	0.047			NA		
	Axis	X114.2;Y243.5;Z-128.7			NA		
LTE Band 42	SAR (W/kg)		NA				
	Axis		NA				
LTE Band 48	SAR (W/kg)		NA				
	Axis		NA				
FR1 n2	SAR (W/kg)				NA		
	Axis				NA		
FR1 n5	SAR (W/kg)	0.156			NA		
	Axis	X61.2;Y281.8;Z-170.9			NA		
FR1 n7	SAR (W/kg)	0.049			NA		
	Axis	X55.2;Y281.6;Z-172			NA		
FR1 n66	SAR (W/kg)	0.137			NA		
	Axis	X53.8;Y246.9;Z-169.6			NA		
FR1 n41	SAR (W/kg)	0.088			NA		
	Axis	X51.2;Y259.9;Z-171.4			NA		
FR1 n77	SAR (W/kg)		NA	0.894		0.984	0.281
	Axis		NA	X24.5;Y321.3;Z-171		X24.2;Y332.9;Z-170.4	X54;Y246.8;Z-169.7
FR1 n78	SAR (W/kg)			0.904		0.956	0.212
	Axis			X24.5;Y321.3;Z-171		X24.2;Y332.9;Z-170.4	X54;Y246.8;Z-169.7



Left Tilted							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR (W/kg)	0.115			NA		
	Axis	X13.2;Y255.3;Z-169.7			NA		
GSM1900	SAR (W/kg)	0.052			NA		
	Axis	X41.5;Y261.7;Z-172.3			NA		
WCDMA II	SAR (W/kg)	0.065			NA		
	Axis	X12.8;Y255.1;Z-169.6			NA		
WCDMA IV	SAR (W/kg)	0.075			NA		
	Axis	X12.9;Y255.4;Z-169.7			NA		
WCDMA V	SAR (W/kg)	0.115			NA		
	Axis	X43.6;Y254.4;Z-172.4			NA		
LTE Band 7	SAR (W/kg)	0.028			NA		
	Axis	X13.4;Y255.2;Z-169.7			NA		
LTE Band 12	SAR (W/kg)	0.08			NA		
	Axis	X41.5;Y255.7;Z-172.3			NA		
LTE Band 13	SAR (W/kg)	0.113					
	Axis	X41.3;Y255.8;Z-172.3					
LTE Band 25	SAR (W/kg)	0.082			NA		
	Axis	X13.7;Y255;Z-169.8			NA		
LTE Band 26	SAR (W/kg)	0.108			NA		
	Axis	X44.9;Y253.7;Z-172.4			NA		
LTE Band 66	SAR (W/kg)	0.1			NA		
	Axis	X15.2;Y254.1;Z-169.9			NA		
LTE Band 41	SAR (W/kg)	0.035			NA		
	Axis	X15.7;Y255.2;Z-170.3			NA		
LTE Band 42	SAR (W/kg)		NA				
	Axis		NA				
LTE Band 48	SAR (W/kg)		NA				
	Axis		NA				
FR1 n2	SAR (W/kg)				NA		
	Axis				NA		
FR1 n5	SAR (W/kg)	0.106			NA		
	Axis	X42.8;Y269.9;Z-172.4			NA		
FR1 n7	SAR (W/kg)	0.037			NA		
	Axis	X13.8;Y253.6;Z-169			NA		
FR1 n66	SAR (W/kg)	0.087			NA		
	Axis	X10.9;Y256.6;Z-169.4			NA		
FR1 n41	SAR (W/kg)	0.1			NA		
	Axis	X10.3;Y257;Z-169.4			NA		
FR1 n77	SAR (W/kg)		NA	0.975		NA	0.171
	Axis		NA	X7.2;Y320.1;Z-169.4		NA	X54;Y246.8;Z-169.7
FR1 n78	SAR (W/kg)			0.86		NA	0.126
	Axis			X7.2;Y320.1;Z-169.4		NA	X54;Y246.8;Z-169.7



<Hotspot>

Front					
BT Ant6	SAR	0.091	WLAN2.4G MIMO	SAR	0.266
	Axis	X15;Y62.9;Z-203		Axis	X-5;Y87.4;Z-203
BT Ant3	SAR	0.05	WLAN5G MIMO	SAR	0.386
	Axis	X-5;Y86.8;Z-203		Axis	X5;Y64.2;Z-203
Back					
BT Ant6	SAR	0.072	WLAN2.4G MIMO	SAR	0.26
	Axis	X-65;Y49.6;Z-203		Axis	X-55;Y81.4;Z-203
BT Ant3	SAR	0.057	WLAN5G MIMO	SAR	0.284
	Axis	X-55;Y80.2;Z-203		Axis	X-55;Y74.7;Z-203
Left side					
BT Ant6	SAR	0.01	WLAN2.4G MIMO	SAR	0.014
	Axis	X-41;Y82;Z-203		Axis	X-41;Y84.4;Z-203;
BT Ant3	SAR	0.003	WLAN5G MIMO	SAR	0.041
	Axis	X-41;Y79;Z-203		Axis	X-25;Y63.7;Z-203

Front							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR	1.105			0.567		
	Axis	X-40;Y-80.9;Z-203			X-55;Y79.7;Z-203		
GSM1900	SAR	0.625			0.583		
	Axis	X-25;Y-78.5;Z-203			X-55;Y87.8;Z-203		
WCDMA II	SAR	0.55			0.498		
	Axis	X-25;Y-78.8;Z-203			X-55;Y88.4;Z-203		
WCDMA IV	SAR	0.734			0.697		
	Axis	X-25;Y-78.4;Z-203			X-55;Y89.2;Z-203		
WCDMA V	SAR	1.208			0.513		
	Axis	X-40;Y-80.5;Z-203			X-55;Y81.8;Z-203		
LTE Band 7	SAR	0.409			0.411		
	Axis	X-25;Y-79.1;Z-203			X-45;Y85.1;Z-203		
LTE Band 12	SAR	0.903			0.351		
	Axis	X-40;Y-85.4;Z-203			X-55;Y72.8;Z-203		
LTE Band 13	SAR	1.109					
	Axis	X-25;Y-84.8;Z-203					
LTE Band 25	SAR	0.581			0.681		
	Axis	X-10;Y-83.1;Z-203			X-55;Y89.9;Z-203		
LTE Band 26	SAR	1.156			0.602		
	Axis	X-25;Y-81.4;Z-203			X-55;Y82.7;Z-203		
LTE Band 66	SAR	0.689			0.709		
	Axis	X-10;Y-83.4;Z-203			X-55;Y89.3;Z-203		
LTE Band 41	SAR	0.367			0.442		
	Axis	X-25;Y-80.7;Z-203			X-35;Y86.8;Z-203		
LTE Band 42	SAR		0.446				
	Axis		X-65;Y53.4;Z-203				
LTE Band 48	SAR		0.452				
	Axis		X-65;Y50.2;Z-203				
FR1 n2	SAR				0.688		
	Axis				X-55;Y84.2;Z-203		
FR1 n5	SAR	0.96			0.665		
	Axis	X-25;Y-84.7;Z-203			X-55;Y80;Z-203		
FR1 n7	SAR	0.501			0.488		
	Axis	X-25;Y-78.2;Z-203			X-35;Y85.9;Z-203		
FR1 n66	SAR	0.688			0.642		
	Axis	X-10;Y-83.1;Z-203			X-55;Y86.2;Z-203		
FR1 n41	SAR	0.592			0.381		



FCC SAR Test Report

Report No. : FA2O2807

	Axis	X-35;Y-77.3;Z-203			X-35;Y85.9;Z-203		
FR1 n77	SAR		0.402	0.466		0.911	0.897
	Axis		X-65;Y53.3;Z-203	X-15.6;Y83.6;Z-203		X5;Y81.5;Z-203	X-65;Y-62.7;Z-203
FR1 n78	SAR			0.497		0.717	0.944
	Axis			X-15;Y87.2;Z-203		X5;Y81.1;Z-203	X-55;Y-68.1;Z-203

Back							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR	1.048			0.861		
	Axis	X-25;Y-78.7;Z-203			X-10;Y75.3;Z-203		
GSM1900	SAR	0.826			0.678		
	Axis	X-40;Y-79.1;Z-203			X-10;Y82.2;Z-203		
WCDMA II	SAR	0.651			0.557		
	Axis	X-40;Y-80.3;Z-203			X-10;Y84.6;Z-203		
WCDMA IV	SAR	0.688			0.589		
	Axis	X-25;Y-80.2;Z-203			X-10;Y86.1;Z-203		
WCDMA V	SAR	1.283			0.69		
	Axis	X-10;Y-82.5;Z-203			X-10;Y75.9;Z-203		
LTE Band 7	SAR	0.904			0.563		
	Axis	X-15;Y-76;Z-203			X-5;Y77.8;Z-203		
LTE Band 12	SAR	1.093			0.67		
	Axis	X-10;Y-81;Z-203			X-10;Y74.4;Z-203		
LTE Band 13	SAR	1.136					
	Axis	X-10;Y-81.3;Z-203					
LTE Band 25	SAR	0.654			0.706		
	Axis	X-25;Y-81.7;Z-203			X-10;Y81.9;Z-203		
LTE Band 26	SAR	1.179			0.808		
	Axis	X-10;Y-80.1;Z-203			X-10;Y76.2;Z-203		
LTE Band 66	SAR	0.746			0.737		
	Axis	X-25;Y-81.7;Z-203			X-10;Y83.7;Z-203		
LTE Band 41	SAR	1.252			0.587		
	Axis	X-15;Y-74.5;Z-203			X-15;Y81.5;Z-203		
LTE Band 42	SAR		0.343				
	Axis		X15;Y56.8;Z-203				
LTE Band 48	SAR		0.252				
	Axis		X15;Y56.9;Z-203				
FR1 n2	SAR				0.777		
	Axis				X-10;Y82.5;Z-203		
FR1 n5	SAR	0.908			0.859		
	Axis	X-10;Y-80.7;Z-203			X-10;Y76.5;Z-203		
FR1 n7	SAR	0.897			0.658		
	Axis	X-15;Y-74.2;Z-203			X-5;Y80.8;Z-203		
FR1 n66	SAR	0.704			0.598		
	Axis	X-25;Y-82.1;Z-203			X-10;Y81.3;Z-203		
FR1 n41	SAR	1.232			0.461		
	Axis	X-15;Y-72.4;Z-203			X-15;Y79.1;Z-203		
FR1 n77	SAR		0.276	0.434		0.734	0.605
	Axis		X15;Y57.7;Z-203	X-25;Y83.8;Z-203		X-55;Y78.3;Z-203	X5;Y-69.6;Z-203
FR1 n78	SAR			0.424		0.585	0.489
	Axis			X-25;Y83.2;Z-203		X-55;Y78;Z-203	X5;Y-69.3;Z-203



Left Side							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR	NA			0.33		
	Axis	NA			X-33;Y71.8;Z-203		
GSM1900	SAR	NA			0.125		
	Axis	NA			X-33;Y80.2;Z-203		
WCDMA II	SAR	NA			0.276		
	Axis	NA			X-33;Y78.1;Z-203		
WCDMA IV	SAR	NA			0.297		
	Axis	NA			X-33;Y77.5;Z-203		
WCDMA V	SAR	NA			0.608		
	Axis	NA			X-33;Y68;Z-203		
LTE Band 7	SAR	NA			0.065		
	Axis	NA			X-33;Y87.6;Z-203		
LTE Band 12	SAR	NA			0.201		
	Axis	NA			X-22;Y66.9;Z-203		
LTE Band 13	SAR	NA					
	Axis	NA					
LTE Band 25	SAR	NA			0.294		
	Axis	NA			X-33;Y77.9;Z-203		
LTE Band 26	SAR	NA			0.423		
	Axis	NA			X-33;Y72.3.8;Z-203		
LTE Band 66	SAR	NA			0.265		
	Axis	NA			X-33;Y78.5;Z-203		
LTE Band 41	SAR	NA			0.051		
	Axis	NA			X-41;Y84.4;Z-203		
LTE Band 42	SAR		0.994				
	Axis		X-33;Y56.7;Z-203				
LTE Band 48	SAR		1.004				
	Axis		X-33;Y53.4;Z-203				
FR1 n2	SAR				0.275		
	Axis				X-33;Y74.5;Z-203		
FR1 n5	SAR	NA			0.4		
	Axis	NA			X-33;Y69.6;Z-203		
FR1 n7	SAR	NA			0.088		
	Axis	NA			X-41;Y84.4;Z-203		
FR1 n66	SAR	NA			0.204		
	Axis	NA			X-33;Y73.6;Z-203		
FR1 n41	SAR	NA			0.084		
	Axis	NA			X-33;Y84.3;Z-203		
FR1 n77	SAR		0.979	0.072		0.024	1.253
	Axis		X-33;Y50.7;Z-203	X-25;Y59.2;Z-203		X-25;Y48.7;Z-203	X-25;Y-64.1;Z-203
FR1 n78	SAR			0.062		0.027	1.288
	Axis			X-25;Y70.6;Z-203		X-25;Y47.2;Z-203	X-25;Y-58.7;Z-203

<Body-worn>

Front								
BT Ant6	SAR	0.091	WLAN2.4G MIMO	SAR	0.372			
	Axis	X15;Y62.9;Z-203		Axis	X-5;Y87.4;Z-203			
BT Ant3	SAR	0.05	WLAN5G MIMO	SAR	0.38	WLAN6E MIMO	SAR	0.118
	Axis	X-5;Y86.8;Z-203		Axis	X5;Y64.2;Z-203		Axis	X-8;Y76.4;Z-203
Back								
BT Ant6	SAR	0.072	WLAN2.4G MIMO	SAR	0.363			
	Axis	X-65;Y49.6;Z-203		Axis	X-55;Y81.4;Z-203			
BT Ant3	SAR	0.057	WLAN5G MIMO	SAR	0.264	WLAN6E MIMO	SAR	0.113
	Axis	X-55;Y80.2;Z-203		Axis	X-55;Y74.7;Z-203		Axis	X-42;Y83.1;Z-203

Front							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR	1.105			0.567		
	Axis	X-40;Y-80.9;Z-203			X-55;Y79.7;Z-203		
GSM1900	SAR	0.625			0.583		
	Axis	X-25;Y-78.5;Z-203			X-55;Y87.8;Z-203		
WCDMA II	SAR	0.55			0.498		
	Axis	X-25;Y-78.8;Z-203			X-55;Y88.4;Z-203		
WCDMA IV	SAR	0.734			0.697		
	Axis	X-25;Y-78.4;Z-203			X-55;Y89.2;Z-203		
WCDMA V	SAR	1.208			0.513		
	Axis	X-40;Y-80.5;Z-203			X-55;Y81.8;Z-203		
LTE Band 7	SAR	0.409			0.411		
	Axis	X-25;Y-79.1;Z-203			X-45;Y85.1;Z-203		
LTE Band 12	SAR	0.903			0.351		
	Axis	X-40;Y-85.4;Z-203			X-55;Y72.8;Z-203		
LTE Band 13	SAR	1.109					
	Axis	X-25;Y-84.8;Z-203					
LTE Band 25	SAR	0.581			0.681		
	Axis	X-10;Y-83.1;Z-203			X-55;Y89.9;Z-203		
LTE Band 26	SAR	1.156			0.602		
	Axis	X-25;Y-81.4;Z-203			X-55;Y82.7;Z-203		
LTE Band 66	SAR	0.689			0.709		
	Axis	X-10;Y-83.4;Z-203			X-55;Y89.3;Z-203		
LTE Band 41	SAR	0.367			0.442		
	Axis	X-25;Y-80.7;Z-203			X-35;Y86.8;Z-203		
LTE Band 42	SAR		0.446				
	Axis		X-65;Y53.4;Z-203				
LTE Band 48	SAR		0.452				
	Axis		X-65;Y50.2;Z-203				
FR1 n2	SAR				0.688		
	Axis				X-55;Y84.2;Z-203		
FR1 n5	SAR	0.96			0.665		
	Axis	X-25;Y-84.7;Z-203			X-55;Y80;Z-203		
FR1 n7	SAR	0.501			0.488		
	Axis	X-25;Y-78.2;Z-203			X-35;Y85.9;Z-203		
FR1 n66	SAR	0.688			0.642		
	Axis	X-10;Y-83.1;Z-203			X-55;Y86.2;Z-203		
FR1 n41	SAR	0.592			0.381		
	Axis	X-35;Y-77.3;Z-203			X-35;Y85.9;Z-203		
FR1 n77	SAR		0.402	0.47		0.928	0.912
	Axis		X-65;Y53.3;Z-203	X-15.6;Y83.6;Z-203		X5;Y81.5;Z-203	X-65;Y-62.7;Z-203
FR1 n78	SAR			0.522		0.724	0.979



FCC SAR Test Report

Report No. : FA2O2807

	Axis			X-15;Y87.2;Z-203		X5;Y81.1;Z-203	X-55;Y-68.1;Z-203
--	------	--	--	------------------	--	----------------	-------------------

Back							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR	1.048			0.861		
	Axis	X-25;Y-78.7;Z-203			X-10;Y75.3;Z-203		
GSM1900	SAR	0.826			0.678		
	Axis	X-40;Y-79.1;Z-203			X-10;Y82.2;Z-203		
WCDMA II	SAR	0.651			0.557		
	Axis	X-40;Y-80.3;Z-203			X-10;Y84.6;Z-203		
WCDMA IV	SAR	0.688			0.589		
	Axis	X-25;Y-80.2;Z-203			X-10;Y86.1;Z-203		
WCDMA V	SAR	1.283			0.69		
	Axis	X-10;Y-82.5;Z-203			X-10;Y75.9;Z-203		
LTE Band 7	SAR	0.904			0.563		
	Axis	X-15;Y-76;Z-203			X-5;Y77.8;Z-203		
LTE Band 12	SAR	1.093			0.67		
	Axis	X-10;Y-81;Z-203			X-10;Y74.4;Z-203		
LTE Band 13	SAR	1.136					
	Axis	X-10;Y-81.3;Z-203					
LTE Band 25	SAR	0.654			0.706		
	Axis	X-25;Y-81.7;Z-203			X-10;Y81.9;Z-203		
LTE Band 26	SAR	1.179			0.808		
	Axis	X-10;Y-80.1;Z-203			X-10;Y76.2;Z-203		
LTE Band 66	SAR	0.746			0.737		
	Axis	X-25;Y-81.7;Z-203			X-10;Y83.7;Z-203		
LTE Band 41	SAR	1.252			0.587		
	Axis	X-15;Y-74.5;Z-203			X-15;Y81.5;Z-203		
LTE Band 42	SAR		0.343				
	Axis		X15;Y56.8;Z-203				
LTE Band 48	SAR		0.252				
	Axis		X15;Y56.9;Z-203				
FR1 n2	SAR				0.777		
	Axis				X-10;Y82.5;Z-203		
FR1 n5	SAR	0.908			0.859		
	Axis	X-10;Y-80.7;Z-203			X-10;Y76.5;Z-203		
FR1 n7	SAR	0.897			0.658		
	Axis	X-15;Y-74.2;Z-203			X-5;Y80.8;Z-203		
FR1 n66	SAR	0.704			0.598		
	Axis	X-25;Y-82.1;Z-203			X-10;Y81.3;Z-203		
FR1 n41	SAR	1.232			0.461		
	Axis	X-15;Y-72.4;Z-203			X-15;Y79.1;Z-203		
FR1 n77	SAR		0.276	0.434		0.734	0.605
	Axis		X15;Y57.7;Z-203	X-25;Y83.8;Z-203		X-55;Y78.3;Z-203	X5;Y-69.6;Z-203
FR1 n78	SAR			0.424		0.585	0.489
	Axis			X-25;Y83.2;Z-203		X-55;Y78;Z-203	X5;Y-69.3;Z-203



<Extremity>

Front		
WLAN5G MIMO	SAR	0.761
	Axis	X-5;Y76.7;Z-203
WLAN6E MIMO	SAR	0.304
	Axis	X-16.5;Y85;Z-203
Back		
WLAN5G MIMO	SAR	0.206
	Axis	X-65;Y71;Z-203
WLAN6E MIMO	SAR	0.117
	Axis	X-42;Y82.5;Z-203
Left side		
WLAN5G MIMO	SAR	0.039
	Axis	X-25;Y70;Z-203
WLAN6E MIMO	SAR	0.003
	Axis	X-25;Y73;Z-203

Front							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR	NA			NA		
	Axis	NA			NA		
GSM1900	SAR	2.562			2.532		
	Axis	X-17;Y-97.7;Z-203			X-55;Y85;Z-203		
WCDMA II	SAR	2.725			2.143		
	Axis	X-10;Y-98.8;Z-203			X-55;Y84.5;Z-203		
WCDMA IV	SAR	2.729			2.181		
	Axis	X-10;Y-99.4;Z-203			X-55;Y84.2;Z-203		
WCDMA V	SAR	2.197			NA		
	Axis	X-25;Y-98.4;Z-203			NA		
LTE Band 7	SAR	1.851			1.872		
	Axis	X-35;Y-99.3;Z-203			X-35;Y84.4;Z-203		
LTE Band 12	SAR	NA			NA		
	Axis	NA			NA		
LTE Band 13	SAR	NA					
	Axis	NA					
LTE Band 25	SAR	2.686			2.249		
	Axis	X-10;Y-99.4;Z-203			X-55;Y85.1;Z-203		
LTE Band 26	SAR	NA			NA		
	Axis	NA			NA		
LTE Band 66	SAR	2.742			2.231		
	Axis	X-10;Y-98.5;Z-203			X-55;Y85.3;Z-203		
LTE Band 41	SAR	NA			1.285		
	Axis	NA			X-35;Y84.7;Z-203		
LTE Band 42	SAR		1.475				
	Axis		X-65;Y52.2;Z-203				
LTE Band 48	SAR		2.074				
	Axis		X-65;Y52.4;Z-203				
FR1 n2	SAR				1.474		
	Axis				X-55;Y80.6;Z-203		
FR1 n5	SAR	NA			NA		
	Axis	NA			NA		
FR1 n7	SAR	1.85			1.924		
	Axis	X-35;Y-98.6;Z-203			X-35;Y85.6;Z-203		
FR1 n66	SAR	2.712			2.681		
	Axis	X-10;Y-98.1;Z-203			X-55;Y83;Z-203		
FR1 n41	SAR	1.672			1.879		



FCC SAR Test Report

Report No. : FA2O2807

	Axis	X-35;Y-97.4;Z-203			X-35;Y86.2;Z-203		
FR1 n77	SAR		1.799	2.452		1.997	1.671
	Axis		X-65;Y53.9;Z-203	X-15;Y81.8;Z-203		X5;Y74.9;Z-203	X-55;Y-71.4;Z-203
FR1 n78	SAR			2.76		2.75	1.332
	Axis			X-15;Y81.8;Z-203		X5;Y74.9;Z-203	X-55;Y-71.4;Z-203

Back							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR	NA			NA		
	Axis	NA			NA		
GSM1900	SAR	2.628			1.768		
	Axis	X-31;Y-79.9;Z-203			X-10;Y81.1;Z-203		
WCDMA II	SAR	2.659			1.462		
	Axis	X-25;Y-82;Z-203			X-10;Y81.6;Z-203		
WCDMA IV	SAR	2.696			1.651		
	Axis	X-25;Y-83.5;Z-203			X-10;Y82.2;Z-203		
WCDMA V	SAR	1.863			NA		
	Axis	X-10;Y-81;Z-203			NA		
LTE Band 7	SAR	2.728			1.775		
	Axis	X-15;Y-75;Z-203			X-5;Y77.8;Z-203		
LTE Band 12	SAR	NA			NA		
	Axis	NA			NA		
LTE Band 13	SAR	NA					
	Axis	NA					
LTE Band 25	SAR	2.71			1.491		
	Axis	X-25;Y-84.1;Z-203			X-10;Y80.1;Z-203		
LTE Band 26	SAR	1.842			NA		
	Axis	X-25;Y-81.4;Z-203			NA		
LTE Band 66	SAR	2.623			1.609		
	Axis	X-25;Y-82;Z-203			X-10;Y81.3;Z-203		
LTE Band 41	SAR	2.777			1.003		
	Axis	X-15;Y-76.3;Z-203			X-5;Y80.5;Z-203		
LTE Band 42	SAR		0.857				
	Axis		X5;Y52.5;Z-203				
LTE Band 48	SAR		0.696				
	Axis		X5;Y54.3;Z-203				
FR1 n2	SAR				1.812		
	Axis				X-10;Y79.2;Z-203		
FR1 n5	SAR	NA			NA		
	Axis	NA			NA		
FR1 n7	SAR	2.756			1.956		
	Axis	X-15;Y-73.9;Z-203			X-5;Y79.3;Z-203		
FR1 n66	SAR	2.724			1.843		
	Axis	X-25;Y-82.3;Z-203			X-10;Y78;Z-203		
FR1 n41	SAR	2.732			1.86		
	Axis	X-25;Y-68.9;Z-203			X-15;Y77.4;Z-203		
FR1 n77	SAR		0.679	1.362		0.826	1.007
	Axis		X5;Y54.9;Z-203	X-25;Y81.8;Z-203		X-55;Y78;Z-203	X5;Y-67.8;Z-203
FR1 n78	SAR			1.166		1.116	1.213
	Axis			X-25;Y82.6;Z-203		X-55;Y77.4;Z-203	X5;Y-69.5;Z-203

Left Side							
Band		Ant0	Ant2	Ant4	Ant1	Ant5	Ant7
GSM850	SAR	NA			NA		
	Axis	NA			NA		
GSM1900	SAR	NA			NA		
	Axis	NA			NA		
WCDMA II	SAR	NA			NA		
	Axis	NA			NA		
WCDMA IV	SAR	NA			NA		
	Axis	NA			NA		
WCDMA V	SAR	NA			NA		
	Axis	NA			NA		
LTE Band 7	SAR	NA			NA		
	Axis	NA			NA		
LTE Band 12	SAR	NA			NA		
	Axis	NA			NA		
LTE Band 13	SAR	NA					
	Axis	NA					
LTE Band 25	SAR	NA			NA		
	Axis	NA			NA		
LTE Band 26	SAR	NA			NA		
	Axis	NA			NA		
LTE Band 66	SAR	NA			NA		
	Axis	NA			NA		
LTE Band 41	SAR	NA			NA		
	Axis	NA			NA		
LTE Band 42	SAR		2.702				
	Axis		X-33;Y74.6;Z-203				
LTE Band 48	SAR		2.757				
	Axis		X-33;Y73.7;Z-203				
FR1 n2	SAR				NA		
	Axis				NA		
FR1 n5	SAR	NA			NA		
	Axis	NA			NA		
FR1 n7	SAR	NA			NA		
	Axis	NA			NA		
FR1 n66	SAR	NA			NA		
	Axis	NA			NA		
FR1 n41	SAR	NA			NA		
	Axis	NA			NA		
FR1 n77	SAR		2.748	NA		NA	2.744
	Axis		X-33;Y70.2.7;Z-203	NA		NA	X-25;Y-87.2;Z-203
FR1 n78	SAR			NA		NA	2.523
	Axis			NA		NA	X-25;Y-87.5;Z-203

18. Supplemental tuner tests results

General Note:

1. This device implements impedance tuner (144 states) antenna tuning techniques in the WCDMA B2/4/5, LTE Band 2/4/5/7/12/17/25/26/66/38/41, and 5GNR n5/n7/n66/n38/n41 for ANT0.
2. This device implements impedance tuner (144 states) antenna tuning techniques in the WCDMA B2/4/5, LTE Band 2/4/5/7/12/17/25/26/66/38/41, and 5GNR n7/n38/n41 for ANT1.
3. LTE B38 / B2 / B4 / B5 / B17 SAR test was covered by LTE B41 / B25 / B66 / B26 / B12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
4. 5GNR n38 SAR test was covered by 5GNR n41; according to April 2015 TCB workshop, SAR test for overlapping NR bands can be reduced.
5. 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. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
6. 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.
7. To evaluate all of the tuner states, the 144 tuner states for ANT0 and the impedance tuner 144 states for ANT1 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.
8. According to April 2019 TCB workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
9. According to April 2019 TCB workshop, 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 .
10. 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).
11. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

18.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix F.

Test Engineer : Martin Li, Varus Wang, Ricky Gu, Light Wang

19. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g 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 met, 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 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

20. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [9] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [14] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015

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